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Preface

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

Background

The Office of 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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Net Generation and Consumption of Fuels for July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	115,565	127,959	-9.7%	88,246	96,931	26,653	30,301	23	29	643	699	0	0
Petroleum Liquids	Utility Scale Facilities	977	940	4.0%	660	671	257	227	12	8	48	34	0	0
Petroleum Coke	Utility Scale Facilities	873	807	8.1%	716	673	98	47	0	0	58	87	0	0
Natural Gas	Utility Scale Facilities	165,196	144,720	14.1%	81,488	70,858	74,814	65,181	780	703	8,114	7,977	0	0
Other Gas	Utility Scale Facilities	1,236	1,261	-2.0%	16	21	357	356	0	0	863	884	0	0
Nuclear	Utility Scale Facilities	72,456	71,314	1.6%	38,293	37,874	34,163	33,440	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	23,706	25,745	-7.9%	21,832	23,736	1,741	1,867	NM	NM	114	121	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	29,668	28,319	4.8%	3,192	2,986	23,610	22,438	287	289	2,580	2,607	0	0
... Wind	Utility Scale Facilities	15,897	15,765	0.8%	2,117	2,136	13,763	13,616	10	9	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	6,869	5,505	24.8%	533	358	6,257	5,077	70	63	10	7	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,789	3,922	-3.4%	347	286	941	1,105	9	7	2,492	2,524	0	0
... Other Biomass	Utility Scale Facilities	1,716	1,760	-2.5%	103	116	1,344	1,362	198	210	71	72	0	0
... Geothermal	Utility Scale Facilities	1,397	1,368	2.1%	92	90	1,304	1,278	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-644	-759	-15.1%	-522	-646	-123	-114	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,115	1,205	-7.4%	51	43	593	571	91	100	381	490	0	0
All Energy Sources	Utility Scale Facilities	410,148	401,510	2.2%	233,973	233,146	162,162	154,316	1,212	1,150	12,801	12,897	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,179	2,578	23.3%	0	0	0	0	1,041	818	290	264	1,848	1,495
Estimated Total Solar Photovoltaic	All Facilities	9,668	7,771	24.4%	527	357	5,882	4,766	1,112	881	299	272	1,848	1,495
Estimated Total Solar	All Facilities	10,049	8,083	24.3%	533	358	6,257	5,077	1,112	881	299	272	1,848	1,495
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	63,859	69,775	-8.5%	48,345	52,038	15,271	17,494	7	8	236	234	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,690	1,853	-8.8%	1,171	1,296	435	505	28	17	56	35	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	339	332	2.0%	284	271	38	39	0	0	17	23	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,244,684	1,091,770	14.0%	634,830	554,104	557,784	486,788	4,728	4,170	47,341	46,707	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,100	1,225	-10.2%	198	264	90	104	40	45	772	813	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	170	125	36.3%	3	3	12	14	34	17	121	90	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	65	79	-17.7%	1	1	9	10	0	0	55	68	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	105,784	100,187	5.6%	4,269	4,092	31,832	29,292	7,344	6,547	62,340	60,257	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	64,958	71,001	-8.5%	48,543	52,302	15,361	17,598	46	53	1,008	1,047	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,860	1,978	-6.0%	1,174	1,299	447	519	62	34	176	125	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	404	412	-1.8%	285	272	47	49	0	0	72	91	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,350,468	1,191,957	13.3%	639,099	558,196	589,616	516,079	12,072	10,718	109,681	106,964	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	111,209	146,232	-23.9%	93,145	117,432	17,340	27,945	63	95	661	761	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	27,865	32,613	-14.6%	18,062	20,550	8,095	9,920	358	427	1,350	1,717	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,295	1,019	27.1%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2018	July 2017	Percentage Change	July 2018	July 2017	Percentage Change	July 2018	July 2017	Percentage Change
Residential	152,639	149,075	2.4%	20,023	19,547	2.4%	13.12	13.11	0.1%
Commercial	130,850	128,324	2.0%	14,365	14,108	1.8%	10.98	10.99	-0.1%
Industrial	85,218	84,240	1.2%	6,255	6,194	1.0%	7.34	7.35	-0.1%
Transportation	640	630	1.7%	65	64	1.9%	10.14	10.11	0.3%
All Sectors	369,346	362,268	2.0%	40,707	39,912	2.0%	11.02	11.02	0.0%

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

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2018 and 2017

Net Generation and Consumption of Fuels for January through July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	657,477	701,901	-6.3%	493,912	523,753	158,801	173,231	183	195	4,581	4,723	0	0
Petroleum Liquids	Utility Scale Facilities	10,765	6,872	56.6%	6,378	5,061	3,991	1,503	92	59	304	249	0	0
Petroleum Coke	Utility Scale Facilities	4,868	5,168	-5.8%	4,035	4,104	420	583	4	4	409	477	0	0
Natural Gas	Utility Scale Facilities	820,646	710,930	15.4%	401,530	346,472	362,067	308,045	4,487	4,314	52,562	52,099	0	0
Other Gas	Utility Scale Facilities	7,714	8,378	-7.9%	132	109	2,298	2,318	0	0	5,284	5,952	0	0
Nuclear	Utility Scale Facilities	475,023	458,155	3.7%	248,313	241,870	226,709	216,285	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	185,930	200,281	-7.2%	171,880	185,256	13,060	13,993	163	167	827	865	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	255,456	230,817	10.7%	29,088	27,423	207,179	184,555	1,905	1,885	17,284	16,954	0	0
... Wind	Utility Scale Facilities	168,514	152,980	10.2%	22,265	22,047	146,090	130,805	96	87	63	40	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	40,285	31,379	28.4%	3,279	2,011	36,554	28,995	401	345	51	27	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	25,174	25,013	0.6%	2,157	1,931	6,347	6,716	44	43	16,626	16,323	0	0
... Other Biomass	Utility Scale Facilities	12,069	12,140	-0.6%	781	822	9,380	9,345	1,365	1,409	543	563	0	0
... Geothermal	Utility Scale Facilities	9,414	9,306	1.2%	606	612	8,808	8,693	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,197	-3,653	-12.5%	-2,573	-3,056	-624	-597	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	7,562	7,553	0.1%	293	259	3,948	3,780	599	629	2,722	2,886	0	0
All Energy Sources	Utility Scale Facilities	2,422,243	2,326,404	4.1%	1,352,988	1,331,251	977,850	903,695	7,433	7,253	83,972	84,205	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	17,809	14,345	24.1%	0	0	0	0	5,763	4,571	1,688	1,486	10,358	8,288
Estimated Total Solar Photovoltaic	All Facilities	55,855	43,713	27.8%	3,223	2,008	34,371	26,987	6,163	4,916	1,740	1,513	10,358	8,288
Estimated Total Solar	All Facilities	58,094	45,724	27.1%	3,279	2,011	36,554	28,995	6,163	4,916	1,740	1,513	10,358	8,288
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	362,854	383,691	-5.4%	270,665	282,747	90,455	99,270	52	56	1,682	1,617	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	18,583	12,083	53.8%	11,436	9,037	6,652	2,674	169	106	326	266	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,891	2,037	-7.1%	1,614	1,660	178	258	1	1	98	118	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,058,891	5,256,892	15.3%	3,091,946	2,656,989	2,630,966	2,266,760	27,179	25,675	308,800	307,468	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	8,442	8,964	-5.8%	1,394	1,624	744	799	293	301	6,011	6,240	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,620	1,047	54.7%	71	38	205	122	288	164	1,055	723	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	445	537	-17.1%	8	4	52	69	5	7	380	458	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	697,464	666,844	4.6%	24,398	23,922	202,261	195,804	46,073	44,333	424,732	402,785	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	371,296	392,655	-5.4%	272,059	284,372	91,199	100,069	345	358	7,693	7,857	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	20,203	13,130	53.9%	11,507	9,075	6,857	2,795	457	270	1,381	989	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,336	2,574	-9.2%	1,622	1,664	230	327	6	8	478	575	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,756,355	5,923,735	14.1%	3,116,344	2,680,912	2,833,227	2,462,563	73,252	70,008	733,532	710,253	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	Percentage Change
Residential	848,993	795,088	6.8%	109,044	102,157	6.7%	12.84	12.85	-0.1%
Commercial	790,688	775,513	2.0%	84,020	82,298	2.1%	10.63	10.61	0.2%
Industrial	548,251	547,888	0.1%	37,862	37,587	0.7%	6.91	6.86	0.7%
Transportation	4,478	4,377	2.3%	434	423	2.6%	9.69	9.66	0.3%
All Sectors	2,192,410	2,122,866	3.3%	231,359	222,465	4.0%	10.55	10.48	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 ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2018 and 2017

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal (1000 tons)	51,868	56,876	39.12	39.82	260	271	333,133	365,482	39.40	40.30
Petroleum Liquids (1000 barrels)	1,129	1,086	89.17	W	132	129	12,891	8,976	83.54	68.64
Petroleum Coke (1000 tons)	293	302	W	W	7	7	1,743	1,891	W	W
Natural Gas (1000 Mcf)	1,120,080	898,085	3.40	3.33	572	498	5,640,271	4,517,297	3.58	3.58

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal (1000 tons)	38,748	42,290	40.19	40.87	180	188	246,577	266,809	40.31	41.35
Petroleum Liquids (1000 barrels)	836	774	87.66	65.61	86	85	7,902	6,809	83.57	67.98
Petroleum Coke (1000 tons)	287	292	77.48	59.61	6	6	1,737	1,872	72.04	58.21
Natural Gas (1000 Mcf)	541,016	431,672	3.39	3.60	294	255	2,728,626	2,184,104	3.74	3.81

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal (1000 tons)	12,416	13,865	35.17	36.04	63	64	81,743	93,514	35.88	36.54
Petroleum Liquids (1000 barrels)	270	297	93.81	W	37	35	4,769	2,010	83.63	70.82
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	513,623	409,779	3.45	2.96	230	197	2,478,923	1,958,285	3.44	3.31

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal (1000 tons)	0	0	--	--	0	0	6	15	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	760	613	W	W	3	3	5,134	4,105	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal (1000 tons)	703	721	49.82	51.34	17	19	4,807	5,145	W	W
Petroleum Liquids (1000 barrels)	22	15	89.87	W	9	9	221	157	80.94	69.44
Petroleum Coke (1000 tons)	6	9	W	W	1	1	6	19	W	W
Natural Gas (1000 Mcf)	64,680	56,022	W	W	45	43	427,587	370,804	W	W

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

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2018 and 2017

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal	986,893	1,084,862	2.06	2.09	260	271	6,376,681	7,023,779	2.06	2.10
Petroleum Liquids	6,853	6,490	14.69	W	132	129	77,770	53,823	13.81	11.45
Petroleum Coke	8,307	8,498	W	W	7	7	49,215	53,046	W	W
Natural Gas	1,156,050	928,993	3.29	3.22	572	498	5,823,131	4,668,619	3.47	3.47
Fossil Fuels	2,158,103	2,028,843	W	W	730	662	12,326,798	11,799,267	W	W

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal	739,991	816,276	2.10	2.12	180	188	4,731,167	5,169,025	2.10	2.13
Petroleum Liquids	5,128	4,656	14.29	10.91	86	85	48,013	41,036	13.75	11.28
Petroleum Coke	8,147	8,245	2.73	2.11	6	6	49,055	52,521	2.55	2.07
Natural Gas	558,184	446,546	3.29	3.48	294	255	2,816,033	2,256,874	3.62	3.69
Fossil Fuels	1,311,450	1,275,723	2.66	2.62	401	369	7,644,269	7,519,457	2.74	2.65

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal	232,451	253,594	1.88	1.97	63	64	1,545,498	1,746,294	1.90	1.96
Petroleum Liquids	1,587	1,739	15.97	W	37	35	28,382	11,808	13.98	12.05
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	530,691	423,924	3.34	2.86	230	197	2,561,679	2,024,576	3.32	3.20
Fossil Fuels	764,729	679,257	2.85	W	279	245	4,135,559	3,782,679	2.79	2.58

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal	0	0	--	--	0	0	130	336	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	790	636	W	W	3	3	5,290	4,237	W	W
Fossil Fuels	790	636	W	W	3	3	5,420	4,573	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
Coal	14,451	14,992	2.42	2.47	17	19	99,886	108,125	W	W
Petroleum Liquids	138	95	14.64	W	9	9	1,375	978	12.98	11.14
Petroleum Coke	160	253	W	W	1	1	160	525	W	W
Natural Gas	66,384	57,887	W	W	45	43	440,129	382,931	W	W
Fossil Fuels	81,133	73,227	W	W	47	45	541,550	492,559	W	W

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.

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2008-July 2018
(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															
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
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	1,207,901	12,583	8,508	1,272,864	14,159	804,950	300,045	52,958	334,287	-6,495	13,045	4,014,804	24,139	73,828	77,097
Year 2016															
January	113,459	1,396	966	110,044	1,195	72,525	25,615	1,486	25,193	-312	1,153	352,719	980	2,380	2,465
February	92,705	1,299	910	98,552	1,062	65,638	24,139	2,242	26,496	-399	1,041	313,685	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,090	304,390	1,525	3,885	4,143
April	72,113	833	1,006	98,876	1,132	62,732	25,878	2,880	26,787	-452	1,109	292,894	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,195	316,784	1,879	4,916	5,304
June	116,034	972	1,005	131,395	1,043	67,175	23,237	3,473	22,763	-497	1,180	367,781	1,928	4,990	5,401
July	136,316	1,273	1,049	151,554	1,077	70,349	21,455	3,945	24,428	-784	1,225	411,887	2,000	5,474	5,945
August	135,635	1,258	1,078	154,760	1,064	71,526	19,570	3,969	20,496	-902	1,248	409,701	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,168	351,484	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,108	312,945	1,552	4,495	4,743
November	86,940	1,070	799	93,942	1,013	65,179	18,808	2,767	26,052	-607	1,098	297,062	1,257	3,840	4,024
December	118,747	1,166	869	96,364	1,037	71,662	22,528	2,424	30,159	-753	1,139	345,343	1,167	3,500	3,591
Year 2017															
January	115,501	1,156	917	91,447	1,120	73,121	27,853	2,152	27,600	-435	1,085	341,518	1,244	3,306	3,396
February	86,873	905	687	81,040	1,191	63,560	24,542	2,497	28,521	-508	990	290,297	1,383	3,744	3,880
March	89,427	979	707	94,708	1,257	65,093	30,221	4,433	32,934	-521	1,052	320,291	1,987	6,123	6,419
April	81,533	884	404	86,178	1,157	56,743	29,320	4,774	32,154	-439	1,044	293,752	2,211	6,674	6,985
May	92,881	1,002	772	96,777	1,182	61,313	32,177	5,766	29,118	-423	1,081	321,645	2,440	7,805	8,207
June	107,728	1,006	873	116,061	1,211	67,011	30,424	6,252	26,296	-568	1,096	357,390	2,503	8,290	8,755
July	127,959	940	807	144,720	1,261	71,314	25,745	5,505	22,814	-759	1,205	401,510	2,578	7,771	8,083
August	119,780	997	727	139,610	1,321	72,384	21,241	5,401	20,101	-638	1,217	382,140	2,501	7,562	7,903
Sept	98,404	987	678	116,728	1,120	68,098	18,965	5,168	23,647	-606	1,030	334,219	2,240	7,059	7,408
October	90,087	999	535	106,867	1,014	65,995	17,211	4,830	31,344	-463	1,025	319,443	2,002	6,518	6,832
November	91,151	922	693	92,585	1,198	66,618	19,840	3,120	29,935	-478	1,075	306,660	1,574	4,563	4,694
December	106,578	1,805	708	106,144	1,127	73,700	22,507	3,059	29,822	-656	1,145	345,939	1,476	4,413	4,536
Year 2018															
January	118,696	5,220	915	109,601	1,060	74,649	25,422	3,262	33,821	-547	1,115	373,213	1,655	4,789	4,917
February	82,051	792	718	96,317	1,092	64,790	25,593	4,037	30,385	-315	999	306,458	1,774	5,621	5,812
March	80,691	820	593	103,884	1,193	67,033	25,887	5,099	34,096	-490	1,111	319,917	2,414	7,256	7,513
April	73,489	864	582	100,004	976	59,087	27,615	6,111	32,841	-377	1,038	302,229	2,721	8,518	8,833
May	85,403	1,026	424	115,639	1,045	67,320	30,291	7,091	30,131	-390	1,075	339,056	2,999	9,639	10,090
June	101,584	1,065	763	130,004	1,111	69,688	27,415	7,815	31,099	-433	1,110	371,221	3,066	10,364	10,880
July	115,565	977	873	165,196	1,236	72,456	23,706	6,869	22,799	-644	1,115	410,148	3,179	9,668	10,049
Year to Date															
2016	684,495	7,632	6,836	804,741	7,759	471,145	173,200	20,068	179,419	-3,148	7,994	2,360,140	11,159	29,098	31,227
2017	701,901	6,872	5,168	710,930	8,378	458,155	200,281	31,379	199,438	-3,653	7,553	2,326,404	14,345	43,713	45,724
2018	657,477	10,765	4,868	820,646	7,714	475,023	185,930	40,285	215,171	-3,197	7,562	2,422,243	17,809	55,855	58,094
Rolling 12 Months Ending in July															
2017	1,256,555	12,249	9,529	1,284,496	13,427	792,704	294,893	47,365	325,598	-7,191	13,314	4,042,938	21,998	66,098	69,363
2018	1,163,477	16,476	8,208	1,382,580	13,494	821,817	285,693	61,864	350,019	-6,039	13,054	4,110,643	27,603	85,969	89,467

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 2016 and prior years are final. Values for 2017 and 2018 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), 2008-July 2018
(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													
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
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	254,254	49,688	3,269	43,284	10,876	6,964	2,933	15,976	300,045	687,289	24,139	73,828	77,097
Year 2016													
January	18,466	1,400	86	3,600	915	603	277	1,332	25,615	52,294	980	2,380	2,465
February	20,138	2,000	241	3,406	886	537	285	1,243	24,139	52,877	1,145	3,145	3,386
March	21,939	2,360	257	3,403	949	579	281	1,315	27,390	58,474	1,525	3,885	4,143
April	20,799	2,606	273	2,967	932	593	287	1,209	25,878	55,544	1,703	4,309	4,583
May	18,848	3,037	388	3,187	980	649	280	1,342	25,486	54,197	1,879	4,916	5,304
June	16,303	3,062	412	3,414	934	614	247	1,251	23,237	49,473	1,928	4,990	5,401
July	17,618	3,473	471	3,658	943	635	262	1,311	21,455	49,828	2,000	5,474	5,945
August	13,589	3,602	368	3,722	942	634	285	1,324	19,570	44,035	1,942	5,543	5,911
Sept	16,404	3,272	363	3,407	895	589	272	1,327	16,368	42,897	1,735	5,007	5,370
October	20,335	2,942	249	3,176	839	589	265	1,353	17,339	47,088	1,552	4,495	4,743
November	19,406	2,583	184	3,391	993	602	296	1,364	18,808	47,627	1,257	3,840	4,024
December	23,146	2,333	91	3,615	1,011	640	293	1,454	22,528	55,111	1,167	3,500	3,591
Year 2017													
January	20,749	2,062	90	3,589	972	619	272	1,399	27,853	57,605	1,244	3,306	3,396
February	22,228	2,361	136	3,405	866	529	252	1,241	24,542	55,559	1,383	3,744	3,880
March	26,133	4,136	297	3,662	927	558	275	1,380	30,221	67,588	1,987	6,123	6,419
April	25,753	4,464	310	3,373	881	546	244	1,357	29,320	66,248	2,211	6,674	6,985
May	22,642	5,364	402	3,438	907	604	232	1,295	32,177	67,061	2,440	7,805	8,207
June	19,711	5,788	465	3,625	883	589	224	1,265	30,424	62,972	2,503	8,290	8,755
July	15,765	5,193	311	3,922	916	604	240	1,368	25,745	54,064	2,578	7,771	8,083
August	13,089	5,060	341	3,880	925	617	233	1,357	21,241	46,743	2,501	7,562	7,903
Sept	17,268	4,818	349	3,404	878	558	214	1,325	18,965	47,779	2,240	7,059	7,408
October	24,821	4,516	314	3,569	885	559	248	1,261	17,211	53,385	2,002	6,518	6,832
November	23,320	2,989	131	3,560	904	572	245	1,334	19,840	52,896	1,574	4,563	4,694
December	22,776	2,937	123	3,859	932	608	255	1,393	22,507	55,388	1,476	4,413	4,536
Year 2018													
January	26,834	3,134	128	3,847	925	590	252	1,373	25,422	62,505	1,655	4,789	4,917
February	23,936	3,846	191	3,461	883	561	241	1,303	25,593	60,015	1,774	5,621	5,812
March	27,275	4,842	258	3,630	941	599	267	1,385	25,887	65,082	2,414	7,256	7,513
April	26,757	5,797	314	3,163	889	570	251	1,212	27,615	66,567	2,721	8,518	8,833
May	23,405	6,640	451	3,637	872	574	233	1,409	30,291	67,513	2,999	9,639	10,090
June	24,411	7,298	517	3,648	856	630	220	1,336	27,415	66,329	3,066	10,364	10,880
July	15,897	6,489	380	3,789	873	640	203	1,397	23,706	53,375	3,179	9,668	10,049
Year to Date													
2016	134,113	17,939	2,129	23,635	6,538	4,210	1,919	9,004	173,200	372,687	11,159	29,098	31,227
2017	152,980	29,368	2,011	25,013	6,352	4,048	1,739	9,306	200,281	431,098	14,345	43,713	45,724
2018	168,514	38,046	2,239	25,174	6,239	4,164	1,667	9,414	185,930	441,386	17,809	55,855	58,094
Rolling 12 Months Ending in July													
2017	245,860	44,099	3,265	42,325	11,032	7,103	3,151	16,127	294,893	667,856	21,998	66,098	69,363
2018	269,788	58,367	3,498	43,445	10,762	7,079	2,861	16,084	285,693	697,577	27,603	85,969	89,467

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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms..
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2008-July 2018
(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												
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
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	895,095	8,805	6,711	617,725	164	424,485	276,804	3,512	42,618	-5,448	473	2,270,945
Year 2016												
January	84,012	965	832	52,818	3	37,974	23,579	95	3,303	-230	34	203,384
February	69,852	830	734	48,009	4	34,281	22,015	135	3,624	-332	30	179,182
March	56,982	623	724	49,949	5	34,445	25,125	151	3,696	-291	42	171,452
April	53,542	602	858	46,425	7	34,036	23,742	169	3,887	-367	34	162,936
May	62,093	695	763	52,908	10	36,531	23,508	187	3,098	-257	33	179,569
June	86,611	710	793	63,858	16	37,000	21,716	188	3,034	-409	40	213,557
July	100,856	926	833	71,913	21	37,919	20,030	197	2,837	-678	34	234,890
August	100,156	905	856	72,293	13	37,927	18,241	207	2,432	-787	33	232,277
Sept	83,223	644	807	58,392	23	33,919	15,283	190	3,215	-626	35	195,105
October	72,950	658	418	47,710	7	30,016	16,149	182	3,479	-471	36	171,134
November	64,830	700	596	44,171	22	33,082	17,599	154	3,635	-522	35	164,301
December	87,293	811	667	46,333	22	37,268	20,799	139	4,425	-657	36	197,136
Year 2017												
January	86,110	838	743	44,020	14	38,425	25,700	148	3,310	-346	37	198,999
February	64,900	658	540	39,303	19	33,911	22,668	172	3,771	-418	31	165,556
March	66,119	779	535	45,959	17	34,693	28,009	281	4,428	-455	35	180,401
April	59,111	665	260	41,953	19	30,217	27,067	303	4,186	-368	38	163,451
May	69,189	730	654	47,955	6	31,728	29,772	368	3,690	-350	35	183,780
June	81,393	719	698	56,424	12	35,022	28,303	382	3,400	-474	38	205,918
July	96,931	671	673	70,858	21	37,874	23,736	358	2,627	-646	43	233,146
August	90,678	722	540	68,465	NM	38,667	19,464	352	2,252	-531	46	220,659
Sept	71,951	705	523	56,671	NM	35,496	17,450	338	2,848	-522	42	185,504
October	66,669	752	405	51,469	10	35,038	15,750	320	4,224	-388	41	174,289
November	65,099	654	583	44,546	17	34,541	18,048	241	3,978	-394	42	167,355
December	76,945	911	556	50,102	25	38,871	20,836	251	3,904	-557	43	191,887
Year 2018												
January	88,381	2,364	770	54,200	26	39,366	23,621	257	4,401	-475	37	212,947
February	61,125	624	575	46,364	18	33,941	23,653	354	3,803	-226	35	170,268
March	58,622	598	491	49,147	17	35,262	23,870	473	4,209	-408	44	172,325
April	55,421	632	477	47,442	28	30,534	25,374	520	3,887	-295	37	164,058
May	64,142	742	336	57,381	12	34,479	28,049	547	3,305	-309	42	188,726
June	77,974	759	670	65,507	14	36,437	25,481	595	3,544	-339	47	210,691
July	88,246	660	716	81,488	16	38,293	21,832	533	2,659	-522	51	233,973
Year to Date												
2016	513,948	5,351	5,536	385,881	67	252,187	159,716	1,123	23,480	-2,565	247	1,344,970
2017	523,753	5,061	4,104	346,472	109	241,870	185,256	2,011	25,412	-3,056	259	1,331,251
2018	493,912	6,378	4,035	401,530	132	248,313	171,880	3,279	25,809	-2,573	293	1,352,988
Rolling 12 Months Ending in July												
2017	932,204	8,779	7,449	615,372	195	414,083	273,327	2,883	42,598	-6,120	433	2,291,204
2018	865,254	10,122	6,642	672,783	NM	430,928	263,428	4,781	43,015	-4,965	507	2,292,682

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 2016 and prior years are final. Values for 2017 and 2018 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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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, 2008-July 2018
(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												
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
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	304,398	3,235	1,013	558,439	4,013	380,465	21,585	48,814	259,889	-1,047	6,509	1,587,313
Year 2016												
January	28,612	379	42	48,969	341	34,551	1,884	1,363	19,168	-82	589	135,816
February	22,057	416	99	42,840	295	31,357	1,991	2,065	20,345	-66	540	121,939
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	549	119,810
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	554	117,612
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	610	124,310
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	595	140,888
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	610	162,745
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	617	163,051
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	557	143,155
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	549	128,939
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	560	119,981
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	613	134,908
Year 2017												
January	28,593	264	116	38,893	337	34,695	2,008	1,981	21,600	-90	580	128,978
February	21,279	203	92	34,219	317	29,650	1,741	2,297	22,205	-90	513	112,426
March	22,607	155	92	40,738	355	30,400	2,059	4,101	25,836	-66	517	126,794
April	21,810	179	95	36,522	281	26,526	2,103	4,418	25,402	-71	506	117,771
May	23,035	229	41	40,987	340	29,585	2,243	5,330	22,880	-73	544	125,140
June	25,605	246	100	51,504	331	31,988	1,972	5,792	20,276	-93	549	138,270
July	30,301	227	47	65,181	356	33,440	1,867	5,077	17,361	-114	571	154,316
August	28,374	232	113	62,813	366	33,717	1,652	4,982	15,031	-107	580	147,754
Sept	25,775	243	97	52,413	332	32,602	1,402	4,764	18,304	-84	508	136,355
October	22,715	203	84	47,683	306	30,957	1,346	4,451	24,554	-75	518	132,743
November	25,391	222	35	40,082	348	32,077	1,657	2,845	23,363	-84	537	126,473
December	28,912	832	100	47,404	343	34,828	1,534	2,776	23,076	-99	586	140,293
Year 2018												
January	29,517	2,753	92	46,793	304	35,283	1,665	2,972	26,648	-72	582	146,536
February	20,233	119	95	42,294	313	30,849	1,804	3,639	24,057	-89	550	123,864
March	21,362	174	41	46,971	337	31,770	1,870	4,574	27,192	-82	569	134,779
April	17,448	190	39	44,759	306	28,553	2,095	5,525	26,408	-82	534	125,774
May	20,611	239	36	50,272	361	32,841	2,090	6,465	24,080	-81	532	137,446
June	22,978	259	NM	56,163	322	33,251	1,795	7,122	24,888	-95	588	147,290
July	26,653	257	98	74,814	357	34,163	1,741	6,257	17,353	-123	593	162,162
Year to Date												
2016	164,901	1,930	767	361,944	2,263	218,958	12,532	18,617	137,746	-583	4,046	923,120
2017	173,231	1,503	583	308,045	2,318	216,285	13,993	28,995	155,560	-597	3,780	903,695
2018	158,801	3,991	420	362,067	2,298	226,709	13,060	36,554	170,625	-624	3,948	977,850
Rolling 12 Months Ending in July												
2017	315,593	2,933	1,217	570,701	3,813	378,621	20,000	43,881	251,368	-1,071	6,676	1,593,730
2018	289,968	5,723	NM	612,461	3,993	390,889	20,652	56,373	274,954	-1,073	6,677	1,661,468

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018
(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															
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
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	335	106	8	7,512	0	0	243	578	2,642	0	1,095	12,518	7,700	8,277	8,277
Year 2016															
January	43	8	1	605	0	0	21	26	230	0	89	1,022	346	373	373
February	45	8	1	570	0	0	18	39	210	0	75	967	398	437	437
March	46	3	1	579	0	0	22	44	225	0	90	1,011	520	564	564
April	24	6	0	551	0	0	15	46	221	0	97	961	566	612	612
May	20	6	0	607	0	0	12	48	230	0	96	1,019	616	663	663
June	23	5	0	692	0	0	13	53	220	0	83	1,089	623	676	676
July	24	8	1	831	0	0	15	55	234	0	96	1,263	640	696	696
August	26	7	0	859	0	0	19	58	234	0	95	1,298	620	677	677
Sept	29	4	0	700	0	0	23	48	223	0	87	1,114	556	605	605
October	27	5	0	617	0	0	21	42	218	0	90	1,021	493	536	536
November	35	8	0	521	0	0	17	36	224	0	85	927	393	428	428
December	42	8	1	598	0	0	21	33	228	0	85	1,015	387	420	420
Year 2017															
January	41	14	1	648	0	0	23	22	224	0	85	1,057	414	436	436
February	32	8	1	566	0	0	NM	26	203	0	78	934	454	480	480
March	32	10	1	638	0	0	NM	48	224	0	87	1,066	630	679	679
April	19	6	0	532	0	0	NM	50	214	0	87	934	700	750	750
May	19	7	0	583	0	0	NM	65	233	0	101	1,036	774	838	838
June	23	6	0	645	0	0	NM	71	215	0	90	1,075	781	852	852
July	29	8	0	703	0	0	NM	63	226	0	100	1,150	818	881	881
August	27	9	1	698	0	0	NM	60	225	0	101	1,137	798	858	858
Sept	27	8	1	651	0	0	14	58	208	0	90	1,058	713	772	772
October	24	7	1	627	0	0	NM	53	219	0	95	1,039	633	686	686
November	27	8	1	595	0	0	NM	31	221	0	88	986	501	532	532
December	36	NM	1	626	0	0	NM	29	229	0	92	1,046	485	514	514
Year 2018															
January	42	NM	1	640	0	0	NM	29	221	0	85	1,078	540	569	569
February	30	8	1	588	0	0	NM	39	198	0	73	959	594	632	632
March	25	9	1	610	0	0	NM	46	222	0	84	1,021	779	825	825
April	21	9	0	591	0	0	NM	58	214	0	82	1,003	863	921	921
May	20	8	0	609	0	0	NM	71	214	0	91	1,039	951	1,022	1,022
June	21	8	0	670	0	0	NM	87	218	0	93	1,121	995	1,082	1,082
July	23	12	0	780	0	0	NM	70	217	0	91	1,212	1,041	1,112	1,112
Year to Date															
2016	225	44	4	4,436	0	0	115	312	1,570	0	626	7,331	3,709	4,020	4,020
2017	195	59	4	4,314	0	0	167	345	1,539	0	629	7,253	4,571	4,916	4,916
2018	183	92	4	4,487	0	0	163	401	1,504	0	599	7,433	5,763	6,163	6,163
Rolling 12 Months Ending in July															
2017	354	92	5	7,608	0	0	NM	563	2,666	0	1,070	12,628	7,020	7,583	7,583
2018	324	NM	8	7,684	0	0	NM	633	2,606	0	1,065	12,698	8,891	9,524	9,524

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may 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, 2008-July 2018
(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															
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
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	8,074	437	776	89,188	9,982	0	1,413	54	29,138	0	4,968	144,028	2,518	2,572	2,572
Year 2016															
January	793	45	91	7,653	851	0	130	1	2,492	0	442	12,497	113	115	115
February	750	45	76	7,133	763	0	115	2	2,317	0	396	11,597	124	126	126
March	781	39	63	7,462	837	0	142	2	2,381	0	409	12,117	171	173	173
April	670	37	50	7,067	815	0	128	2	2,192	0	424	11,386	186	189	189
May	740	51	87	7,341	740	0	119	3	2,350	0	456	11,886	206	208	208
June	814	44	81	7,661	692	0	99	3	2,391	0	463	12,248	206	209	209
July	873	48	79	8,165	731	0	104	3	2,501	0	486	12,989	214	217	217
August	847	37	81	8,291	732	0	92	3	2,489	0	503	13,075	209	212	212
Sept	762	41	60	7,706	674	0	65	2	2,312	0	489	12,111	190	192	192
October	693	41	75	7,527	679	0	88	2	2,312	0	433	11,851	174	176	176
November	630	37	87	7,514	662	0	69	2	2,433	0	418	11,852	139	140	140
December	750	40	78	7,678	720	0	117	1	2,493	0	405	12,283	128	129	129
Year 2017															
January	757	41	57	7,885	769	0	123	NM	2,467	0	383	12,484	133	NM	NM
February	662	35	55	6,952	855	0	112	NM	2,342	0	367	11,381	147	NM	NM
March	669	35	79	7,372	885	0	127	NM	2,446	0	413	12,030	209	NM	NM
April	593	34	48	7,171	857	0	124	NM	2,353	0	413	11,596	227	NM	NM
May	637	35	76	7,252	835	0	135	4	2,315	0	400	11,689	252	256	256
June	706	35	75	7,489	867	0	124	8	2,404	0	419	12,127	254	262	262
July	699	34	87	7,977	884	0	121	7	2,600	0	490	12,897	264	272	272
August	700	34	72	7,634	951	0	109	7	2,593	0	489	12,590	258	265	265
Sept	652	32	56	6,993	787	0	98	6	2,287	0	390	11,301	235	241	241
October	680	37	45	7,087	698	0	102	6	2,346	0	372	11,373	214	220	220
November	634	38	74	7,362	834	0	120	4	2,373	0	408	11,846	170	174	174
December	685	47	51	8,013	759	0	119	NM	2,613	0	423	12,714	155	NM	NM
Year 2018															
January	756	67	52	7,968	730	0	113	NM	2,552	0	411	12,652	164	NM	NM
February	662	40	46	7,071	762	0	114	5	2,327	0	340	11,368	172	178	178
March	681	40	60	7,156	839	0	124	6	2,472	0	413	11,792	241	247	247
April	599	33	65	7,211	642	0	121	8	2,331	0	384	11,394	263	270	270
May	630	37	52	7,378	672	0	126	NM	2,531	0	410	11,845	291	NM	NM
June	610	38	75	7,664	775	0	114	11	2,449	0	382	12,120	267	278	278
July	643	48	58	8,114	863	0	114	10	2,570	0	381	12,801	290	299	299
Year to Date															
2016	5,421	307	529	52,481	5,429	0	837	16	16,624	0	3,075	84,719	1,220	1,237	1,237
2017	4,723	249	477	52,099	5,952	0	865	27	16,926	0	2,886	84,205	1,486	1,513	1,513
2018	4,581	304	409	52,562	5,284	0	827	51	17,232	0	2,722	83,972	1,688	1,740	1,740
Rolling 12 Months Ending in July															
2017	8,405	445	858	90,816	9,418	0	1,297	NM	28,965	0	5,135	145,376	2,325	NM	NM
2018	7,931	492	707	89,651	9,314	0	1,375	NM	29,444	0	4,803	143,795	2,720	NM	NM

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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-July 2018
(Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,922
Year 2016	
January	520
February	622
March	835
April	951
May	1,058
June	1,099
July	1,146
August	1,113
Sept	989
October	884
November	726
December	653
Year 2017	
January	697
February	783
March	1,147
April	1,284
May	1,415
June	1,468
July	1,495
August	1,446
Sept	1,292
October	1,156
November	903
December	837
Year 2018	
January	951
February	1,008
March	1,395
April	1,596
May	1,757
June	1,803
July	1,848
Year to Date	
2016	6,230
2017	8,288
2018	10,358
Rolling 12 Months Ending in July	
2017	12,653
2018	15,991

See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	10,627	9,821	8.2%	242	232	10,004	9,214	118	123	263	254
Connecticut	3,736	3,270	14.3%	6	6	3,638	3,176	37	38	55	50
Maine	1,025	989	3.7%	0	0	827	791	14	20	184	177
Massachusetts	3,166	3,091	2.4%	59	NM	3,031	2,958	54	53	22	23
New Hampshire	1,829	1,685	8.5%	106	80	1,714	1,597	5	6	3	3
Rhode Island	697	594	17.4%	0	0	691	588	6	6	0	0
Vermont	174	193	-9.7%	71	88	103	104	0	0	0	0
Middle Atlantic	41,704	39,757	4.9%	3,654	3,442	37,438	35,680	209	216	402	418
New Jersey	7,943	7,449	6.6%	16	19	7,801	7,303	65	63	62	63
New York	13,312	12,686	4.9%	3,629	3,416	9,491	9,077	117	118	75	75
Pennsylvania	20,448	19,623	4.2%	9	8	20,146	19,300	28	34	265	280
East North Central	56,920	56,210	1.3%	23,617	25,653	32,105	29,396	189	175	1,009	986
Illinois	17,323	16,999	1.9%	649	594	16,367	16,116	48	36	259	252
Indiana	10,355	10,157	2.0%	7,733	8,848	2,142	844	26	26	455	440
Michigan	11,402	11,092	2.8%	8,495	8,175	2,712	2,723	77	74	117	120
Ohio	11,113	11,013	0.9%	1,363	2,348	9,667	8,584	27	30	56	51
Wisconsin	6,726	6,950	-3.2%	5,377	5,688	1,216	1,130	11	9	123	123
West North Central	32,636	31,884	2.4%	28,396	27,818	3,790	3,648	56	55	393	363
Iowa	5,504	5,141	7.1%	4,441	4,099	836	823	18	20	209	199
Kansas	4,881	5,068	-3.7%	3,983	3,983	895	1,078	NM	NM	NM	6
Minnesota	5,867	5,547	5.8%	4,787	4,628	931	795	17	15	132	109
Missouri	8,518	8,381	1.6%	8,045	8,069	452	291	18	18	3	3
Nebraska	3,522	3,494	0.8%	3,241	3,252	248	209	2	1	32	32
North Dakota	3,463	3,441	0.6%	3,106	3,058	341	369	0	0	16	14
South Dakota	880	812	8.4%	794	730	87	82	NM	NM	0	0
South Atlantic	80,828	82,288	-1.8%	66,327	67,866	12,720	12,500	152	110	1,629	1,813
Delaware	654	957	-31.6%	6	4	532	799	NM	NM	115	153
District of Columbia	9	6	60.7%	0	0	0	5	9	0	0	0
Florida	24,126	24,222	-0.4%	22,370	22,296	1,321	1,451	7	6	428	469
Georgia	12,779	13,028	-1.9%	10,509	10,932	1,808	1,600	NM	NM	461	495
Maryland	3,962	3,757	5.4%	464	NM	3,399	3,680	83	44	16	32
North Carolina	12,820	13,934	-8.0%	11,134	12,471	1,538	1,264	18	19	129	179
South Carolina	9,816	8,968	9.5%	8,983	8,471	655	315	0	0	177	183
Virginia	9,515	9,697	-1.9%	7,330	7,625	1,943	1,826	34	39	209	207
West Virginia	7,147	7,720	-7.4%	5,531	6,066	1,524	1,559	0	0	92	94
East South Central	36,097	36,095	0.0%	30,357	30,812	4,913	4,450	18	17	809	816
Alabama	14,342	14,160	1.3%	9,984	10,014	3,976	3,751	0	0	382	394
Kentucky	7,716	7,516	2.7%	7,578	7,418	87	45	0	0	51	52
Mississippi	6,094	6,755	-9.8%	5,099	5,951	818	626	0	0	176	178
Tennessee	7,946	7,665	3.7%	7,696	7,429	32	28	18	17	199	191
West South Central	74,696	71,016	5.2%	29,339	25,429	38,639	38,918	94	90	6,624	6,579
Arkansas	7,033	6,653	5.7%	6,261	4,758	624	1,747	1	1	148	148
Louisiana	10,139	9,376	8.1%	6,514	5,831	1,091	892	16	13	2,518	2,640
Oklahoma	8,841	8,047	9.9%	5,434	4,729	3,330	3,240	0	0	77	77
Texas	48,683	46,940	3.7%	11,129	10,112	33,594	33,039	78	76	3,882	3,714
Mountain	37,227	36,906	0.9%	29,717	29,079	7,179	7,490	53	54	278	282
Arizona	12,126	11,873	2.1%	9,961	9,607	2,149	2,250	16	16	0	0
Colorado	5,502	5,300	3.8%	4,313	4,367	1,177	922	5	5	6	6
Idaho	1,465	1,405	4.2%	960	902	452	450	4	4	49	50
Montana	1,804	2,543	-29.1%	900	932	902	1,610	0	0	2	2
Nevada	4,568	4,247	7.5%	3,393	3,233	1,100	968	13	13	61	34
New Mexico	3,293	3,235	1.8%	2,415	2,472	866	753	10	10	2	0
Utah	4,217	3,786	11.4%	3,827	3,347	337	339	4	6	49	94
Wyoming	4,252	4,516	-5.8%	3,947	4,219	196	200	0	0	109	97
Pacific Contiguous	37,948	36,116	5.1%	21,324	21,863	15,000	12,652	261	248	1,362	1,352
California	21,942	20,895	5.0%	8,697	9,369	11,801	10,118	251	241	1,192	1,167
Oregon	5,269	5,051	4.3%	3,567	3,593	1,641	1,401	7	6	53	52
Washington	10,737	10,169	5.6%	9,060	8,901	1,558	1,133	3	NM	117	133
Pacific Noncontiguous	1,466	1,415	3.6%	999	951	373	368	62	61	32	35
Alaska	599	572	4.9%	540	513	24	20	28	29	8	9
Hawaii	866	844	2.7%	459	438	349	348	35	32	24	25
U.S. Total	410,148	401,510	2.2%	233,973	233,146	162,162	154,316	1,212	1,150	12,801	12,897

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	60,546	58,676	3.2%	1,835	1,416	56,334	54,878	701	711	1,676	1,671
Connecticut	22,445	19,566	14.7%	50	49	21,871	19,012	212	209	312	296
Maine	6,805	6,566	3.6%	0	0	5,518	5,245	100	121	1,187	1,200
Massachusetts	16,124	18,727	-13.9%	322	256	15,326	18,009	317	307	159	156
New Hampshire	10,413	9,676	7.6%	921	548	9,437	9,071	37	38	18	18
Rhode Island	3,463	2,878	20.3%	0	3	3,430	2,841	33	34	0	0
Vermont	1,295	1,262	2.6%	542	560	751	700	2	2	0	0
Middle Atlantic	244,112	231,586	5.4%	21,305	20,183	218,942	207,461	1,317	1,294	2,547	2,648
New Jersey	44,705	43,716	2.3%	79	88	43,823	42,810	409	394	394	423
New York	76,375	73,085	4.5%	21,141	20,019	54,020	51,860	680	673	534	533
Pennsylvania	123,031	114,785	7.2%	85	76	121,099	112,791	228	227	1,620	1,691
East North Central	352,614	334,865	5.3%	142,600	143,557	202,454	183,679	1,093	1,062	6,467	6,567
Illinois	109,055	104,898	4.0%	3,264	3,213	103,879	99,809	236	211	1,676	1,665
Indiana	65,058	57,302	13.5%	49,826	48,793	12,450	5,545	156	150	2,625	2,813
Michigan	69,206	66,820	3.6%	47,502	49,002	20,387	16,574	485	468	832	775
Ohio	70,475	69,257	1.8%	11,908	13,938	58,018	54,759	149	159	401	401
Wisconsin	38,820	36,589	6.1%	30,100	28,611	7,719	6,991	68	74	934	913
West North Central	208,177	197,415	5.5%	168,486	160,970	36,733	33,700	369	358	2,589	2,387
Iowa	36,703	33,115	10.8%	27,656	24,398	7,653	7,457	136	125	1,258	1,134
Kansas	30,401	29,687	2.4%	19,796	19,630	10,555	10,021	NM	NM	41	28
Minnesota	37,575	33,540	12.0%	28,960	25,951	7,564	6,568	114	109	938	912
Missouri	50,462	50,519	-0.1%	47,167	48,514	3,168	1,873	101	103	27	29
Nebraska	21,811	20,715	5.3%	18,653	17,585	2,925	2,917	11	12	222	201
North Dakota	24,380	23,266	4.8%	20,563	19,590	3,713	3,593	0	0	104	83
South Dakota	6,845	6,572	4.2%	5,690	5,301	1,155	1,271	NM	NM	0	0
South Atlantic	476,308	465,053	2.4%	388,820	387,230	75,594	65,652	866	730	11,030	11,442
Delaware	3,706	4,672	-20.7%	18	9	3,132	3,798	4	4	552	862
District of Columbia	52	44	18.6%	0	0	20	29	32	16	0	0
Florida	138,877	137,700	0.9%	128,585	126,595	7,230	7,957	44	45	3,018	3,103
Georgia	74,751	74,199	0.7%	62,134	62,843	9,498	8,343	6	NM	3,112	3,011
Maryland	25,529	19,410	31.5%	2,121	6	22,823	18,955	426	283	159	166
North Carolina	78,618	76,151	3.2%	68,661	67,722	8,722	7,210	120	121	1,115	1,099
South Carolina	57,784	54,418	6.2%	54,003	51,587	2,606	1,633	2	1	1,173	1,197
Virginia	56,605	55,000	2.9%	43,354	44,525	11,629	8,839	232	257	1,390	1,380
West Virginia	40,387	43,458	-7.1%	29,943	33,943	9,933	8,890	0	0	511	625
East South Central	213,026	203,725	4.6%	180,634	175,359	27,049	23,029	120	111	5,223	5,226
Alabama	83,941	80,773	3.9%	59,995	59,477	21,419	18,781	0	0	2,528	2,516
Kentucky	44,540	43,190	3.1%	43,781	42,664	429	180	0	0	330	346
Mississippi	37,072	35,915	3.2%	30,962	30,872	5,001	3,912	6	3	1,104	1,129
Tennessee	47,473	43,846	8.3%	45,896	42,346	201	157	114	108	1,262	1,236
West South Central	426,214	392,708	8.5%	142,663	125,593	239,831	223,246	493	524	43,226	43,345
Arkansas	39,465	34,120	15.7%	29,889	24,921	8,536	8,208	3	4	1,036	988
Louisiana	58,279	55,508	5.0%	35,417	31,647	5,802	6,190	92	88	16,968	17,583
Oklahoma	52,579	44,118	19.2%	24,935	22,529	27,114	21,146	0	0	531	443
Texas	275,890	258,962	6.5%	52,421	46,496	198,379	187,702	398	433	24,692	24,331
Mountain	206,682	205,709	0.5%	158,866	160,708	45,664	42,900	339	332	1,813	1,769
Arizona	61,799	59,428	4.0%	53,657	51,180	8,041	8,153	100	95	0	0
Colorado	32,356	31,918	1.4%	24,088	24,406	8,200	7,447	23	23	44	43
Idaho	10,213	10,089	1.2%	6,637	6,693	3,201	3,037	29	30	347	330
Montana	16,198	16,452	-1.5%	7,587	7,602	8,595	8,834	0	0	15	16
Nevada	22,464	21,489	4.5%	15,392	15,104	6,785	6,159	81	72	207	153
New Mexico	17,380	19,717	-11.9%	10,554	14,526	6,758	5,125	62	65	6	1
Utah	20,510	20,198	1.5%	17,875	17,411	2,249	2,304	43	47	343	437
Wyoming	25,763	26,418	-2.5%	23,076	23,786	1,836	1,842	0	0	851	789
Pacific Contiguous	225,180	227,562	-1.0%	141,468	150,184	72,852	66,762	1,686	1,704	9,173	8,912
California	111,344	119,096	-6.5%	44,049	55,230	57,751	54,505	1,617	1,642	7,928	7,719
Oregon	37,878	35,749	6.0%	28,893	28,575	8,576	6,787	47	41	361	345
Washington	75,959	72,718	4.5%	68,526	66,379	6,525	5,470	23	20	884	848
Pacific Noncontiguous	9,384	9,105	3.1%	6,312	6,052	2,397	2,387	448	428	227	239
Alaska	3,735	3,431	8.8%	3,295	3,011	154	137	225	217	60	67
Hawaii	5,649	5,674	-0.4%	3,016	3,041	2,243	2,250	223	211	167	172
U.S. Total	2,422,243	2,326,404	4.1%	1,352,988	1,331,251	977,850	903,695	7,433	7,253	83,972	84,205

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	55	37	48.8%	36	24	19	12	0	0	NM	NM
Connecticut	16	9	75.6%	0	0	16	9	0	0	0	0
Maine	NM	4	NM	0	0	2	3	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	36	24	52.4%	36	24	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	4,688	5,054	-7.2%	0	0	4,664	5,017	0	0	24	37
New Jersey	103	115	-10.3%	0	0	103	115	0	0	0	0
New York	125	55	128.2%	0	0	125	43	0	0	0	12
Pennsylvania	4,460	4,884	-8.7%	0	0	4,436	4,860	0	0	24	25
East North Central	25,892	27,927	-7.3%	15,338	17,519	10,365	10,220	6	8	183	180
Illinois	5,789	5,850	-1.0%	372	378	5,268	5,325	NM	NM	147	144
Indiana	6,856	7,605	-9.8%	6,455	7,343	396	257	5	5	0	0
Michigan	4,699	4,386	7.1%	4,656	4,342	38	40	0	0	NM	4
Ohio	5,303	6,264	-15.3%	640	1,665	4,663	4,598	0	0	NM	NM
Wisconsin	3,244	3,823	-15.1%	3,214	3,792	0	0	0	0	30	31
West North Central	19,272	19,713	-2.2%	19,019	19,484	0	0	5	8	247	221
Iowa	2,878	3,077	-6.5%	2,717	2,919	0	0	5	7	155	150
Kansas	2,452	2,516	-2.5%	2,452	2,516	0	0	0	0	0	0
Minnesota	2,180	2,297	-5.1%	2,130	2,268	0	0	0	0	50	29
Missouri	6,525	6,641	-1.7%	6,525	6,640	0	0	0	1	0	0
Nebraska	2,351	2,379	-1.2%	2,319	2,347	0	0	0	0	32	32
North Dakota	2,633	2,598	1.3%	2,622	2,589	0	0	0	0	NM	9
South Dakota	252	204	23.6%	252	204	0	0	0	0	0	0
South Atlantic	19,338	24,758	-21.9%	17,129	21,820	2,166	2,869	2	3	41	66
Delaware	74	113	-34.3%	0	0	74	113	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,826	3,866	-26.9%	2,820	3,826	0	27	0	0	NM	13
Georgia	3,061	3,618	-15.4%	3,051	3,604	0	0	0	0	NM	NM
Maryland	766	1,384	-44.6%	0	0	764	1,375	0	0	3	8
North Carolina	2,915	4,973	-41.4%	2,895	4,948	8	11	2	3	10	11
South Carolina	1,958	2,057	-4.8%	1,957	2,055	0	0	0	0	1	NM
Virginia	1,028	1,496	-31.3%	971	1,420	46	59	0	0	11	17
West Virginia	6,709	7,251	-7.5%	5,435	5,968	1,273	1,283	0	0	0	0
East South Central	12,318	13,260	-7.1%	11,954	12,953	302	245	0	0	62	62
Alabama	3,485	3,651	-4.5%	3,480	3,648	0	0	0	0	NM	NM
Kentucky	5,870	5,763	1.9%	5,870	5,763	0	0	0	0	0	0
Mississippi	558	491	13.6%	256	246	302	245	0	0	0	0
Tennessee	2,405	3,355	-28.3%	2,348	3,297	0	0	0	0	57	59
West South Central	17,794	19,826	-10.3%	10,384	10,101	7,389	9,697	0	0	21	28
Arkansas	3,123	2,834	10.2%	2,644	2,460	475	371	0	0	3	4
Louisiana	1,530	1,338	14.3%	987	925	542	413	0	0	0	0
Oklahoma	1,863	1,750	6.4%	1,663	1,545	182	181	0	0	18	25
Texas	11,278	13,904	-18.9%	5,090	5,171	6,189	8,732	0	0	0	0
Mountain	15,050	16,422	-8.4%	14,083	14,734	927	1,611	0	0	40	76
Arizona	3,284	3,321	-1.1%	3,284	3,321	0	0	0	0	0	0
Colorado	2,649	2,874	-7.8%	2,649	2,874	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	729	1,443	-49.5%	26	26	702	1,418	0	0	0	0
Nevada	398	322	23.8%	273	227	125	95	0	0	0	0
New Mexico	1,469	1,698	-13.5%	1,469	1,698	0	0	0	0	0	0
Utah	2,694	2,666	1.0%	2,655	2,589	39	37	0	0	0	40
Wyoming	3,824	4,095	-6.6%	3,727	4,000	61	61	0	0	37	33
Pacific Contiguous	984	781	25.9%	282	272	678	484	0	0	24	26
California	23	23	1.0%	0	0	0	0	0	0	23	23
Oregon	282	272	3.5%	282	272	0	0	0	0	0	0
Washington	679	486	39.6%	0	0	678	484	0	0	1	3
Pacific Noncontiguous	174	181	-3.4%	NM	NM	144	146	10	10	0	0
Alaska	NM	NM	NM	NM	NM	21	17	10	10	0	0
Hawaii	123	130	-5.5%	0	0	123	130	0	0	0	0
U.S. Total	115,565	127,959	-9.7%	88,246	96,931	26,653	30,301	23	29	643	699

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	784	1,439	-45.5%	497	164	277	1,264	0	0	NM	NM
Connecticut	244	94	159.0%	0	0	244	94	0	0	0	0
Maine	43	44	-2.7%	0	0	33	33	0	0	NM	NM
Massachusetts	0	1,136	-100.0%	0	0	0	1,136	0	0	0	0
New Hampshire	497	164	203.2%	497	164	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	28,270	29,660	-4.7%	0	0	28,103	29,335	0	0	168	325
New Jersey	723	708	2.1%	0	0	723	708	0	0	0	0
New York	523	518	1.0%	0	0	513	364	0	0	11	154
Pennsylvania	27,024	28,433	-5.0%	0	0	26,867	28,263	0	0	157	171
East North Central	157,702	163,448	-3.5%	95,226	98,641	61,089	63,478	44	34	1,343	1,296
Illinois	35,096	33,564	4.6%	2,291	2,451	31,761	30,083	19	19	1,025	1,011
Indiana	44,547	41,663	6.9%	42,355	40,273	2,167	1,375	25	14	0	0
Michigan	25,021	26,148	-4.3%	24,701	25,847	265	273	0	0	56	28
Ohio	34,074	41,663	-18.2%	7,172	9,909	26,896	31,746	0	0	6	8
Wisconsin	18,963	20,409	-7.1%	18,707	20,161	0	0	0	0	256	249
West North Central	108,570	107,250	1.2%	106,920	105,679	0	1	47	67	1,603	1,503
Iowa	15,621	15,191	2.8%	14,619	14,223	0	0	41	50	960	918
Kansas	11,483	10,967	4.7%	11,483	10,967	0	0	0	0	0	0
Minnesota	13,111	12,796	2.5%	12,754	12,467	0	0	1	1	356	328
Missouri	37,319	39,911	-6.5%	37,313	39,894	0	1	5	16	0	0
Nebraska	13,307	12,127	9.7%	13,085	11,926	0	0	0	0	222	201
North Dakota	16,160	15,055	7.3%	16,095	15,000	0	0	0	0	65	55
South Dakota	1,570	1,203	30.5%	1,570	1,203	0	0	0	0	0	0
South Atlantic	115,082	126,922	-9.3%	98,968	113,973	15,673	12,469	25	33	416	447
Delaware	202	200	0.9%	0	0	202	200	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	16,844	23,085	-27.0%	16,773	22,974	7	27	0	0	64	83
Georgia	17,062	19,101	-10.7%	16,962	19,008	0	0	0	0	100	92
Maryland	6,913	4,624	49.5%	0	0	6,872	4,581	0	0	40	43
North Carolina	19,709	20,866	-5.5%	19,546	20,672	55	64	20	25	87	105
South Carolina	11,033	11,270	-2.1%	11,020	11,256	0	0	0	0	12	13
Virginia	5,910	7,157	-17.4%	5,425	6,771	369	267	5	8	112	111
West Virginia	37,410	40,621	-7.9%	29,242	33,291	8,168	7,330	0	0	0	0
East South Central	69,381	72,104	-3.8%	67,238	70,122	1,702	1,541	0	0	441	440
Alabama	19,924	18,789	6.0%	19,888	18,764	0	0	0	0	35	25
Kentucky	33,082	34,481	-4.1%	33,082	34,481	0	0	0	0	0	0
Mississippi	2,979	2,839	4.9%	1,276	1,298	1,702	1,541	0	0	0	0
Tennessee	13,397	15,994	-16.2%	12,991	15,579	0	0	0	0	406	415
West South Central	93,233	107,376	-13.2%	51,542	52,476	41,525	54,696	0	0	166	204
Arkansas	15,943	14,437	10.4%	13,036	13,004	2,880	1,406	0	0	27	27
Louisiana	6,695	7,459	-10.2%	4,218	4,494	2,477	2,965	0	0	0	0
Oklahoma	8,906	9,541	-6.7%	7,882	8,492	885	871	0	0	139	178
Texas	61,688	75,940	-18.8%	26,406	26,486	35,282	49,454	0	0	0	0
Mountain	81,376	90,335	-9.9%	73,052	81,729	8,071	8,287	0	0	253	318
Arizona	17,293	17,441	-0.8%	17,293	17,441	0	0	0	0	0	0
Colorado	14,551	17,162	-15.2%	14,544	17,156	0	0	0	0	7	5
Idaho	16	15	7.5%	0	0	0	0	0	0	16	15
Montana	7,011	7,248	-3.3%	119	168	6,891	7,078	0	0	2	2
Nevada	1,009	1,137	-11.3%	474	572	536	565	0	0	0	0
New Mexico	6,315	10,892	-42.0%	6,315	10,892	0	0	0	0	0	0
Utah	13,465	14,055	-4.2%	13,222	13,729	244	234	0	0	0	92
Wyoming	21,713	22,384	-3.0%	21,086	21,770	400	411	0	0	227	203
Pacific Contiguous	1,972	2,297	-14.1%	311	826	1,480	1,293	0	0	181	178
California	169	162	4.0%	0	0	0	0	0	0	169	162
Oregon	311	826	-62.3%	311	826	0	0	0	0	0	0
Washington	1,492	1,309	14.0%	0	0	1,480	1,293	0	0	12	16
Pacific Noncontiguous	1,108	1,071	3.4%	158	143	882	867	68	61	0	0
Alaska	346	306	13.0%	158	143	120	102	68	61	0	0
Hawaii	762	765	-0.4%	0	0	762	765	0	0	0	0
U.S. Total	657,477	701,901	-6.3%	493,912	523,753	158,801	173,231	183	195	4,581	4,723

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	31	17	82.2%	7	1	20	13	3	2	NM	NM
Connecticut	5	3	42.9%	1	1	4	3	NM	NM	0	0
Maine	10	8	28.8%	0	0	9	7	0	0	NM	NM
Massachusetts	10	4	155.3%	1	NM	7	NM	NM	NM	0	0
New Hampshire	6	1	316.3%	5	0	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	59	41	42.0%	11	9	44	28	NM	1	3	3
New Jersey	2	1	29.6%	NM	NM	NM	1	0	0	0	0
New York	39	18	112.7%	11	9	25	6	NM	NM	3	2
Pennsylvania	19	22	-15.5%	0	0	18	21	0	1	NM	NM
East North Central	42	41	3.9%	28	25	13	14	1	1	NM	1
Illinois	4	3	25.4%	1	1	3	2	NM	NM	0	0
Indiana	10	8	35.6%	9	7	0	0	0	0	1	1
Michigan	14	10	44.2%	14	9	0	0	0	0	NM	NM
Ohio	11	17	-35.2%	NM	5	9	12	0	0	0	0
Wisconsin	3	3	-7.7%	2	3	0	0	0	0	NM	NM
West North Central	35	30	18.8%	35	29	NM	NM	0	0	0	0
Iowa	19	19	-0.1%	19	19	NM	0	0	0	0	0
Kansas	5	2	205.8%	5	2	0	0	0	0	0	0
Minnesota	NM	4	NM	NM	4	NM	NM	0	0	0	0
Missouri	5	3	96.8%	5	3	0	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	2	1	82.8%	2	1	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	NM	0	0
South Atlantic	80	106	-24.7%	49	77	19	22	7	3	NM	NM
Delaware	3	3	-12.9%	0	0	3	3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19	29	-31.9%	17	27	NM	0	0	0	NM	NM
Georgia	NM	10	NM	2	8	NM	NM	0	NM	NM	NM
Maryland	13	14	-8.4%	0	0	13	13	0	0	0	0
North Carolina	13	12	8.0%	12	11	NM	NM	0	0	NM	NM
South Carolina	4	9	-52.2%	4	8	0	0	0	0	0	1
Virginia	16	22	-25.7%	6	15	3	4	7	3	NM	NM
West Virginia	8	9	-4.0%	8	8	0	0	0	0	0	0
East South Central	26	26	-0.8%	25	26	NM	NM	0	0	NM	NM
Alabama	6	3	127.9%	5	2	NM	NM	0	0	NM	NM
Kentucky	7	8	-12.2%	7	8	0	0	0	0	0	0
Mississippi	1	1	24.1%	1	1	0	0	0	0	0	0
Tennessee	12	15	-20.5%	11	15	0	0	0	0	0	0
West South Central	12	12	4.2%	6	6	6	5	0	0	1	1
Arkansas	2	4	-62.5%	1	1	0	3	0	0	0	0
Louisiana	NM	0	NM	NM	0	0	0	0	0	0	0
Oklahoma	3	1	107.6%	2	1	0	0	0	0	0	0
Texas	8	6	31.3%	2	3	5	2	0	0	0	0
Mountain	16	17	-2.7%	12	15	4	2	0	0	0	0
Arizona	3	6	-46.1%	3	6	0	0	0	0	0	0
Colorado	1	1	32.9%	1	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	1	206.0%	NM	NM	4	1	0	0	0	0
Nevada	1	2	-16.3%	1	1	0	0	0	0	0	0
New Mexico	3	3	-15.6%	3	3	0	0	0	0	0	0
Utah	1	2	-36.1%	1	2	0	0	0	0	0	0
Wyoming	3	2	46.6%	3	2	0	0	0	0	0	0
Pacific Contiguous	29	10	201.1%	5	5	6	4	0	NM	18	NM
California	23	3	576.6%	3	3	2	0	0	0	18	0
Oregon	1	2	-25.2%	1	2	0	0	0	0	0	0
Washington	5	4	6.0%	NM	NM	4	4	0	NM	NM	NM
Pacific Noncontiguous	646	640	1.0%	483	478	145	139	0	0	18	22
Alaska	56	71	-20.8%	53	66	0	0	NM	NM	2	5
Hawaii	590	569	3.7%	430	412	145	139	0	0	15	18
U.S. Total	977	940	4.0%	660	671	257	227	12	8	48	34

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	1,046	173	504.9%	153	24	848	116	NM	26	NM	6
Connecticut	251	24	931.1%	NM	4	244	20	NM	1	1	0
Maine	173	27	546.5%	0	0	160	21	1	1	NM	5
Massachusetts	405	91	344.5%	54	5	333	72	NM	13	1	1
New Hampshire	160	20	696.4%	91	11	59	NM	11	8	0	0
Rhode Island	NM	9	NM	0	3	NM	NM	1	2	0	0
Vermont	NM	2	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	2,169	359	504.8%	648	103	1,475	220	NM	7	NM	27
New Jersey	242	26	825.9%	1	NM	234	26	5	0	1	0
New York	1,481	204	624.2%	645	103	805	72	NM	NM	NM	25
Pennsylvania	446	128	248.7%	2	0	436	123	3	2	NM	3
East North Central	366	289	26.5%	201	179	145	99	NM	3	15	9
Illinois	35	32	12.0%	NM	5	28	26	NM	NM	0	0
Indiana	76	69	10.4%	64	63	0	0	0	0	11	6
Michigan	78	56	39.8%	74	52	0	0	3	2	1	1
Ohio	158	114	38.5%	39	40	116	72	1	0	2	1
Wisconsin	19	19	-1.6%	17	19	1	0	NM	0	NM	NM
West North Central	301	268	12.4%	287	264	NM	NM	1	1	1	1
Iowa	146	149	-2.0%	146	149	0	0	0	0	0	0
Kansas	NM	31	NM	NM	31	0	0	0	0	0	0
Minnesota	NM	24	NM	18	20	NM	NM	1	1	1	1
Missouri	59	31	90.7%	59	31	0	0	0	0	0	0
Nebraska	NM	5	NM	NM	5	0	0	0	0	0	0
North Dakota	19	25	-23.8%	19	25	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	NM	0	0
South Atlantic	2,224	979	127.2%	1,487	776	648	150	33	16	57	37
Delaware	140	19	624.1%	6	0	134	19	0	0	0	0
District of Columbia	NM	0	--	0	0	0	0	NM	0	0	0
Florida	342	330	3.6%	312	318	NM	2	0	0	18	11
Georgia	NM	62	NM	NM	40	NM	NM	4	1	NM	12
Maryland	243	60	303.5%	3	1	237	58	1	1	2	1
North Carolina	378	125	203.0%	349	113	NM	7	0	0	NM	5
South Carolina	209	55	282.1%	NM	49	38	1	0	0	7	5
Virginia	671	254	164.4%	510	183	131	54	28	15	NM	3
West Virginia	103	73	41.2%	93	73	10	0	0	0	0	0
East South Central	185	154	20.0%	145	143	25	2	0	0	15	9
Alabama	57	24	136.5%	NM	15	25	2	0	0	NM	7
Kentucky	51	59	-14.1%	51	59	0	0	0	0	0	0
Mississippi	NM	6	NM	NM	5	0	0	0	0	3	1
Tennessee	64	64	0.1%	63	63	0	0	0	0	1	1
West South Central	NM	90	NM	NM	44	NM	44	0	0	5	2
Arkansas	NM	32	NM	NM	10	3	21	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	11	9	18.9%	10	9	0	0	0	0	1	1
Texas	NM	45	NM	NM	21	NM	23	0	0	2	1
Mountain	109	136	-20.0%	96	123	13	12	0	0	0	0
Arizona	31	35	-11.7%	31	35	0	0	0	0	0	0
Colorado	7	4	53.6%	7	4	0	0	0	0	0	0
Idaho	0	0	53.3%	0	0	0	0	0	0	0	0
Montana	11	10	12.0%	NM	NM	11	9	0	0	0	0
Nevada	5	5	-12.6%	3	3	2	2	0	0	0	0
New Mexico	12	27	-57.5%	12	27	0	0	0	0	0	0
Utah	21	25	-17.6%	20	24	1	1	0	0	0	0
Wyoming	23	29	-20.2%	23	29	0	0	0	0	0	0
Pacific Contiguous	65	48	36.5%	22	26	10	10	0	0	33	11
California	52	28	85.1%	20	19	4	2	0	0	28	6
Oregon	2	5	-58.4%	2	5	0	0	0	0	0	0
Washington	11	15	-25.1%	NM	2	5	8	0	0	5	5
Pacific Noncontiguous	4,201	4,377	-4.0%	3,267	3,379	794	847	5	5	136	146
Alaska	447	533	-16.0%	420	501	0	0	3	3	24	28
Hawaii	3,754	3,844	-2.3%	2,847	2,878	794	847	2	1	111	117
U.S. Total	10,765	6,872	56.6%	6,378	5,061	3,991	1,503	92	59	304	249

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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, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	7	6	22.2%	0	0	0	0	0	0	7	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	175	114	53.3%	105	90	57	9	0	0	NM	16
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	103	93	11.2%	92	77	0	0	0	0	NM	16
Ohio	59	9	588.8%	0	0	57	9	0	0	2	0
Wisconsin	12	12	-2.7%	12	12	0	0	0	0	0	0
West North Central	0	0	-100.0%	0	0	0	0	0	0	0	0
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	219	112	95.8%	203	88	0	0	0	0	NM	NM
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	203	88	130.6%	203	88	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	31	-100.0%	0	31	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	31	-100.0%	0	31	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	424	499	-15.1%	409	464	0	0	0	0	15	35
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	416	486	-14.3%	409	464	0	0	0	0	8	22
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	7	13	-44.0%	0	0	0	0	0	0	7	13
Mountain	41	39	6.0%	0	0	41	39	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	41	39	6.0%	0	0	41	39	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	873	807	8.1%	716	673	98	47	0	0	58	87

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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 July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 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	73	88	-17.3%	0	0	0	0	0	0	73	88
New Jersey	30	42	-30.3%	0	0	0	0	0	0	30	42
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	43	45	-5.1%	0	0	0	0	0	0	43	45
East North Central	923	953	-3.2%	677	541	196	335	0	0	50	77
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	662	578	14.5%	618	501	0	0	0	0	44	77
Ohio	202	335	-39.6%	0	0	196	335	0	0	7	0
Wisconsin	59	40	47.4%	59	40	0	0	0	0	0	0
West North Central	40	26	50.9%	0	0	0	0	4	4	36	23
Iowa	40	26	50.9%	0	0	0	0	4	4	36	23
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	1,026	573	79.0%	912	478	0	0	0	0	114	95
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	912	478	90.8%	912	478	0	0	0	0	0	0
Georgia	114	95	19.6%	0	0	0	0	0	0	114	95
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	427	-100.0%	0	427	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	427	-100.0%	0	427	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	2,582	2,852	-9.5%	2,446	2,657	0	0	0	0	136	195
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,537	2,787	-9.0%	2,446	2,657	0	0	0	0	91	130
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	45	65	-31.3%	0	0	0	0	0	0	45	65
Mountain	225	248	-9.4%	0	0	225	248	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	225	248	-9.4%	0	0	225	248	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,868	5,168	-5.8%	4,035	4,104	420	583	4	4	409	477

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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, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	5,903	5,016	17.7%	56	NM	5,636	4,774	93	94	117	107
Connecticut	2,028	1,563	29.8%	4	4	1,933	1,471	37	38	55	50
Maine	312	NM	NM	0	0	270	NM	3	3	39	32
Massachusetts	2,319	2,256	2.8%	NM	NM	2,211	2,149	48	46	21	23
New Hampshire	581	402	44.4%	13	0	565	399	1	0	3	3
Rhode Island	663	563	17.7%	0	0	657	557	6	6	0	0
Vermont	0	0	527.9%	0	0	0	0	0	0	0	0
Middle Atlantic	18,815	16,253	15.8%	1,540	1,282	16,948	14,664	104	104	223	203
New Jersey	4,623	4,079	13.4%	NM	NM	4,542	3,999	18	19	37	32
New York	6,203	5,571	11.3%	1,513	1,252	4,562	4,209	75	73	53	37
Pennsylvania	7,989	6,603	21.0%	0	1	7,844	6,457	11	12	133	134
East North Central	13,668	11,109	23.0%	5,103	4,974	8,165	5,768	147	129	253	237
Illinois	2,120	1,828	16.0%	269	NM	1,747	1,517	46	33	58	69
Indiana	2,754	1,833	50.2%	1,187	1,419	1,433	297	17	17	117	100
Michigan	2,835	2,843	-0.3%	1,132	1,137	1,613	1,624	50	46	40	35
Ohio	3,891	2,862	35.9%	689	644	3,159	2,177	26	28	16	12
Wisconsin	2,069	1,742	18.8%	1,825	1,564	214	153	8	5	23	21
West North Central	4,191	2,962	41.5%	3,612	2,544	487	326	31	28	61	64
Iowa	982	467	110.2%	923	415	NM	NM	9	9	50	43
Kansas	528	458	15.4%	526	452	0	0	0	0	NM	6
Minnesota	1,352	1,032	31.0%	1,135	848	200	163	10	9	7	12
Missouri	830	578	43.7%	529	402	286	NM	12	11	3	3
Nebraska	196	178	9.8%	196	178	0	0	0	0	0	0
North Dakota	135	115	17.9%	134	114	0	0	0	0	1	1
South Dakota	168	135	24.5%	168	135	0	0	0	0	0	0
South Atlantic	38,355	34,723	10.5%	30,833	27,849	7,025	6,364	87	47	411	463
Delaware	534	776	-31.2%	6	3	444	673	0	0	84	100
District of Columbia	5	0	NM	0	0	0	0	5	0	0	0
Florida	17,512	16,791	4.3%	16,398	15,570	969	1,085	2	2	143	135
Georgia	5,898	5,514	7.0%	4,293	4,116	1,557	1,310	0	0	48	88
Maryland	1,570	766	105.0%	463	0	1,020	715	80	42	7	8
North Carolina	4,728	3,816	23.9%	4,041	3,267	672	529	1	1	14	19
South Carolina	2,561	1,692	51.4%	1,996	1,425	555	253	0	0	10	13
Virginia	5,365	5,175	3.7%	3,620	3,452	1,684	1,667	0	1	61	55
West Virginia	183	193	-5.4%	16	17	123	133	0	0	43	44
East South Central	14,191	13,335	6.4%	9,474	8,978	4,481	4,119	17	16	218	222
Alabama	6,011	5,688	5.7%	1,997	1,872	3,913	3,709	0	0	101	108
Kentucky	1,397	1,258	11.1%	1,292	1,193	85	43	0	0	20	21
Mississippi	5,230	5,250	-0.4%	4,713	4,843	481	366	0	0	36	41
Tennessee	1,552	1,140	36.2%	1,472	1,070	2	1	17	16	61	52
West South Central	41,874	37,542	11.5%	15,071	11,785	20,947	20,036	87	84	5,769	5,637
Arkansas	2,145	2,207	-2.8%	2,011	826	112	1,356	0	0	23	25
Louisiana	6,191	5,810	6.6%	3,678	3,312	436	364	16	13	2,061	2,121
Oklahoma	5,342	4,517	18.3%	3,476	2,854	1,836	1,639	0	0	30	24
Texas	28,196	25,008	12.7%	5,906	4,793	18,563	16,678	71	70	3,655	3,467
Mountain	12,990	11,478	13.2%	10,011	8,530	2,791	2,788	35	38	152	121
Arizona	4,841	4,523	7.0%	3,186	2,682	1,641	1,827	14	14	0	0
Colorado	1,898	1,620	17.2%	1,534	1,360	363	257	0	0	2	2
Idaho	441	345	27.8%	273	197	156	135	3	3	8	10
Montana	59	61	-3.7%	43	45	16	16	0	0	0	0
Nevada	3,210	3,046	5.4%	2,953	2,814	190	193	6	5	61	34
New Mexico	1,329	1,080	23.1%	898	726	419	344	10	10	2	0
Utah	1,123	725	54.9%	1,082	669	6	16	2	6	33	35
Wyoming	89	78	13.2%	42	38	0	0	0	0	47	41
Pacific Contiguous	14,870	12,011	23.8%	5,455	4,588	8,334	6,342	178	163	903	917
California	11,529	9,634	19.7%	3,662	3,273	6,801	5,294	172	160	894	906
Oregon	1,725	1,350	27.8%	733	605	981	737	5	3	NM	5
Washington	1,615	1,027	57.3%	1,059	710	552	311	1	NM	NM	5
Pacific Noncontiguous	339	291	16.4%	334	287	0	0	0	0	5	5
Alaska	339	291	16.4%	334	287	0	0	0	0	5	5
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	165,196	144,720	14.1%	81,488	70,858	74,814	65,181	780	703	8,114	7,977

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	27,167	27,081	0.3%	154	138	25,806	25,753	520	515	686	675
Connecticut	10,402	8,554	21.6%	23	26	9,859	8,023	209	208	311	296
Maine	1,303	1,190	9.4%	0	0	1,079	963	18	17	206	211
Massachusetts	10,895	12,727	-14.4%	115	NM	10,367	12,229	262	256	151	150
New Hampshire	1,399	1,962	-28.7%	15	21	1,362	1,917	4	6	18	18
Rhode Island	3,167	2,647	19.6%	0	0	3,139	2,620	27	27	0	0
Vermont	1	1	10.1%	0	1	0	0	1	0	0	0
Middle Atlantic	91,152	81,776	11.5%	6,204	5,879	83,002	74,166	602	600	1,344	1,131
New Jersey	21,949	21,569	1.8%	106	127	21,511	21,123	106	113	227	206
New York	27,904	27,841	0.2%	6,093	5,748	21,051	21,493	413	409	347	192
Pennsylvania	41,298	32,366	27.6%	5	4	40,441	31,550	82	79	770	733
East North Central	74,752	54,588	36.9%	26,679	22,856	45,418	29,264	828	800	1,828	1,668
Illinois	8,822	8,269	6.7%	919	713	7,305	6,968	210	187	388	402
Indiana	14,622	10,037	45.7%	6,859	7,930	6,823	1,286	106	111	833	710
Michigan	18,473	14,469	27.7%	5,785	4,613	12,048	9,280	335	309	305	267
Ohio	23,329	15,103	54.5%	4,468	3,761	18,601	11,085	140	150	119	107
Wisconsin	9,507	6,710	41.7%	8,647	5,840	641	646	36	41	182	183
West North Central	18,582	10,266	81.0%	15,915	8,507	2,094	1,306	187	154	386	299
Iowa	4,454	1,544	188.4%	4,151	1,334	NM	NM	60	45	244	165
Kansas	2,422	1,468	65.0%	2,384	1,443	0	0	0	0	38	25
Minnesota	5,840	3,599	62.2%	4,954	2,920	751	542	61	58	74	79
Missouri	4,154	2,355	76.4%	2,722	1,514	1,342	763	64	50	25	27
Nebraska	566	425	33.1%	564	425	0	0	3	1	0	0
North Dakota	594	469	26.7%	588	466	0	0	0	0	6	3
South Dakota	551	404	36.2%	551	404	0	0	0	0	0	0
South Atlantic	204,876	188,976	8.4%	166,549	154,640	35,404	31,324	451	312	2,473	2,700
Delaware	3,149	4,079	-22.8%	7	5	2,733	3,520	0	0	409	555
District of Columbia	18	16	16.9%	0	0	0	0	18	16	0	0
Florida	96,610	91,650	5.4%	91,178	85,449	4,525	5,327	12	15	894	858
Georgia	31,622	30,416	4.0%	23,472	23,240	7,787	6,771	0	0	363	406
Maryland	7,365	3,599	104.6%	2,111	0	4,791	3,275	407	271	55	53
North Carolina	24,844	22,594	10.0%	21,387	19,529	3,358	2,983	5	6	93	77
South Carolina	10,940	9,353	17.0%	8,927	7,971	1,935	1,301	0	0	78	80
Virginia	29,587	26,576	11.3%	19,354	18,362	9,819	7,819	7	5	406	390
West Virginia	742	694	7.0%	112	86	456	327	0	0	174	281
East South Central	79,139	67,960	16.4%	53,112	45,458	24,534	21,035	116	107	1,376	1,359
Alabama	33,299	29,349	13.5%	11,609	10,168	21,021	18,516	0	0	669	665
Kentucky	8,498	5,315	59.9%	7,957	4,999	418	169	0	0	123	146
Mississippi	30,521	27,233	12.1%	27,182	24,633	3,085	2,344	6	3	248	253
Tennessee	6,821	6,063	12.5%	6,364	5,657	10	6	110	104	336	295
West South Central	208,879	177,243	17.8%	65,179	50,549	105,815	88,922	433	473	37,452	37,299
Arkansas	12,334	10,379	18.8%	6,725	3,539	5,430	6,673	0	0	179	167
Louisiana	35,554	33,571	5.9%	19,088	16,804	2,544	2,452	92	88	13,831	14,227
Oklahoma	24,291	18,018	34.8%	14,495	11,394	9,601	6,499	0	0	195	125
Texas	136,700	115,274	18.6%	24,871	18,811	88,240	73,298	341	385	23,247	22,780
Mountain	55,254	48,292	14.4%	43,461	36,968	10,654	10,225	243	241	896	857
Arizona	17,713	15,388	15.1%	12,774	10,186	4,853	5,120	86	82	0	0
Colorado	9,724	7,128	36.4%	8,279	5,991	1,434	1,125	0	0	11	12
Idaho	1,408	1,422	-1.0%	632	775	687	549	23	23	66	75
Montana	240	241	-0.6%	204	194	34	45	0	0	1	2
Nevada	15,084	14,900	1.2%	13,635	13,508	1,206	1,207	37	33	205	152
New Mexico	6,336	5,414	17.0%	3,898	3,286	2,372	2,064	60	63	6	1
Utah	4,256	3,362	26.6%	3,914	2,949	67	114	36	40	239	259
Wyoming	494	438	12.7%	125	80	1	1	0	0	367	357
Pacific Contiguous	59,247	53,493	10.8%	22,714	20,262	29,339	26,050	1,107	1,109	6,086	6,072
California	46,891	44,511	5.3%	16,361	15,539	23,478	21,919	1,067	1,076	5,985	5,977
Oregon	6,974	4,894	42.5%	3,169	2,129	3,731	2,699	28	23	46	44
Washington	5,381	4,088	31.6%	3,183	2,595	2,130	1,432	13	10	55	51
Pacific Noncontiguous	1,599	1,256	27.2%	1,563	1,215	0	0	0	2	35	39
Alaska	1,599	1,256	27.2%	1,563	1,215	0	0	0	2	35	39
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	820,646	710,930	15.4%	401,530	346,472	362,067	308,045	4,487	4,314	52,562	52,099

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

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2008-July 2018 (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						
2008	693,958	80,144	107,316	1,482	80	882,981
2009	743,901	76,141	99,588	1,332	18	920,979
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	1,059,936	118,660	90,116	3,998	155	1,272,864
Year 2016						
January	97,555	7,212	4,933	295	50	110,044
February	86,920	6,841	4,491	253	47	98,552
March	87,256	9,126	7,184	275	49	103,890
April	80,910	9,788	7,843	278	56	98,876
May	92,066	9,681	8,328	301	53	110,430
June	108,301	11,690	10,993	345	66	131,395
July	120,441	15,821	14,812	402	78	151,554
August	124,933	15,905	13,421	421	80	154,760
Sept	104,442	11,340	9,422	333	65	125,603
October	84,780	9,990	7,788	276	65	102,898
November	80,168	8,609	4,859	252	54	93,942
December	84,473	7,426	4,129	282	53	96,364
Year 2017						
January	80,770	6,995	3,399	270	11	91,447
February	69,914	7,083	3,811	222	10	81,040
March	78,456	9,987	5,979	274	11	94,708
April	72,025	7,941	5,960	241	11	86,178
May	80,385	9,092	7,010	277	13	96,777
June	95,327	10,941	9,434	345	15	116,061
July	116,510	14,710	12,973	509	18	144,720
August	115,031	12,692	11,395	476	16	139,610
Sept	95,333	11,438	9,551	393	14	116,728
October	85,990	11,062	9,424	377	14	106,867
November	78,308	8,541	5,421	305	10	92,585
December	91,887	8,176	5,760	310	10	106,144
Year 2018						
January	92,512	10,483	6,267	329	10	109,601
February	84,853	6,702	4,483	270	10	96,317
March	89,343	8,531	5,690	309	10	103,884
April	81,930	11,414	6,328	318	13	100,004
May	92,360	12,833	10,020	409	18	115,639
June	107,091	12,339	10,179	379	16	130,004
July	130,962	19,027	14,501	685	21	165,196

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	75	76	-1.2%	0	0	0	0	0	0	75	76
New Jersey	17	18	-7.2%	0	0	0	0	0	0	17	18
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	58	57	0.7%	0	0	0	0	0	0	58	57
East North Central	542	538	0.7%	16	21	179	188	0	0	347	330
Illinois	30	14	113.1%	0	0	0	0	0	0	30	14
Indiana	304	305	-0.1%	NM	NM	0	0	0	0	303	303
Michigan	128	140	-8.6%	15	19	113	121	0	0	0	0
Ohio	80	80	0.6%	0	0	66	67	0	0	14	13
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	4	4.1%	0	0	0	0	0	0	4	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	4.1%	0	0	0	0	0	0	4	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	33	55	-39.7%	0	0	0	0	0	0	33	55
Delaware	29	51	-42.7%	0	0	0	0	0	0	29	51
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	-13.8%	0	0	0	0	0	0	1	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	3	1.3%	0	0	0	0	0	0	3	3
East South Central	1	2	-30.2%	0	0	0	0	0	0	1	2
Alabama	0	0	-100.0%	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-19.0%	0	0	0	0	0	0	1	1
West South Central	392	411	-4.6%	0	0	139	134	0	0	253	278
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	147	171	-14.0%	0	0	0	0	0	0	147	171
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	245	240	2.1%	0	0	139	134	0	0	105	106
Mountain	21	26	-20.1%	0	0	2	1	0	0	19	25
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	2	1	16.1%	0	0	2	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	2	2	-26.5%	0	0	0	0	0	0	2	2
Wyoming	18	23	-21.7%	0	0	0	0	0	0	18	23
Pacific Contiguous	162	144	12.7%	0	0	36	33	0	0	126	111
California	126	111	13.6%	0	0	0	0	0	0	126	111
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	33	9.7%	0	0	36	33	0	0	0	0
Pacific Noncontiguous	5	4	19.9%	0	0	0	0	0	0	5	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	4	19.9%	0	0	0	0	0	0	5	4
U.S. Total	1,236	1,261	-2.0%	16	21	357	356	0	0	863	884

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 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	430	490	-12.3%	0	0	0	0	0	0	430	490
New Jersey	124	129	-3.8%	0	0	0	0	0	0	124	129
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	306	361	-15.3%	0	0	0	0	0	0	306	361
East North Central	3,109	3,489	-10.9%	132	109	1,204	1,289	0	0	1,773	2,091
Illinois	105	103	2.3%	0	0	0	0	0	0	105	103
Indiana	1,589	1,890	-15.9%	NM	NM	0	0	0	0	1,582	1,880
Michigan	989	975	1.5%	125	99	864	876	0	0	0	0
Ohio	425	521	-18.4%	0	0	340	413	0	0	86	108
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	29	21	36.1%	0	0	0	0	0	0	29	21
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	29	21	36.1%	0	0	0	0	0	0	29	21
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	149	320	-53.4%	0	0	0	0	0	0	149	320
Delaware	134	298	-55.1%	0	0	0	0	0	0	134	298
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3	3	-11.4%	0	0	0	0	0	0	3	3
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	12	19	-34.1%	0	0	0	0	0	0	12	19
East South Central	9	18	-53.1%	0	0	0	0	0	0	9	18
Alabama	NM	10	NM	0	0	0	0	0	0	NM	10
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6	9	-32.3%	0	0	0	0	0	0	6	9
West South Central	2,593	2,804	-7.5%	0	0	848	826	0	0	1,745	1,977
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,063	1,292	-17.7%	0	0	0	0	0	0	1,063	1,292
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,531	1,512	1.2%	0	0	848	826	0	0	683	686
Mountain	215	225	-4.3%	0	0	7	10	0	0	208	215
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	7	10	-29.4%	0	0	7	10	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	3	8	-64.9%	0	0	0	0	0	0	3	8
Wyoming	206	207	-0.7%	0	0	0	0	0	0	206	207
Pacific Contiguous	1,146	982	16.7%	0	0	239	193	0	0	907	789
California	907	789	14.9%	0	0	0	0	0	0	907	789
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	239	193	24.1%	0	0	239	193	0	0	0	0
Pacific Noncontiguous	33	30	12.5%	0	0	0	0	0	0	33	30
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	33	30	12.5%	0	0	0	0	0	0	33	30
U.S. Total	7,714	8,378	-7.9%	132	109	2,298	2,318	0	0	5,284	5,952

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	2,959	2,972	-0.4%	0	0	2,959	2,972	0	0	0	0
Connecticut	1,538	1,540	-0.2%	0	0	1,538	1,540	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	491	502	-2.2%	0	0	491	502	0	0	0	0
New Hampshire	930	930	0.0%	0	0	930	930	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	14,074	14,239	-1.2%	0	0	14,074	14,239	0	0	0	0
New Jersey	2,938	2,987	-1.6%	0	0	2,938	2,987	0	0	0	0
New York	3,862	3,901	-1.0%	0	0	3,862	3,901	0	0	0	0
Pennsylvania	7,274	7,351	-1.1%	0	0	7,274	7,351	0	0	0	0
East North Central	14,121	14,134	-0.1%	2,427	2,452	11,695	11,682	0	0	0	0
Illinois	8,632	8,613	0.2%	0	0	8,632	8,613	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,018	3,044	-0.9%	2,427	2,452	591	592	0	0	0	0
Ohio	1,580	1,592	-0.8%	0	0	1,580	1,592	0	0	0	0
Wisconsin	892	885	0.8%	0	0	892	885	0	0	0	0
West North Central	4,036	4,038	0.0%	3,609	3,610	427	428	0	0	0	0
Iowa	427	428	-0.2%	0	0	427	428	0	0	0	0
Kansas	886	883	0.4%	886	883	0	0	0	0	0	0
Minnesota	1,261	1,262	-0.1%	1,261	1,262	0	0	0	0	0	0
Missouri	887	890	-0.3%	887	890	0	0	0	0	0	0
Nebraska	575	576	-0.1%	575	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	18,291	18,381	-0.5%	16,987	17,083	1,304	1,299	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	2,687	2,709	-0.8%	2,687	2,709	0	0	0	0	0	0
Georgia	2,977	3,041	-2.1%	2,977	3,041	0	0	0	0	0	0
Maryland	1,304	1,299	0.4%	0	0	1,304	1,299	0	0	0	0
North Carolina	3,777	3,816	-1.0%	3,777	3,816	0	0	0	0	0	0
South Carolina	4,921	4,854	1.4%	4,921	4,854	0	0	0	0	0	0
Virginia	2,626	2,663	-1.4%	2,626	2,663	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,276	7,106	2.4%	7,276	7,106	0	0	0	0	0	0
Alabama	3,824	3,744	2.1%	3,824	3,744	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	129	861	-85.0%	129	861	0	0	0	0	0	0
Tennessee	3,322	2,501	32.8%	3,322	2,501	0	0	0	0	0	0
West South Central	6,434	5,087	26.5%	2,729	2,265	3,705	2,821	0	0	0	0
Arkansas	1,289	1,137	13.5%	1,289	1,137	0	0	0	0	0	0
Louisiana	1,440	1,129	27.6%	1,440	1,129	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,705	2,821	31.3%	0	0	3,705	2,821	0	0	0	0
Mountain	2,730	2,853	-4.3%	2,730	2,853	0	0	0	0	0	0
Arizona	2,730	2,853	-4.3%	2,730	2,853	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,535	2,504	1.2%	2,535	2,504	0	0	0	0	0	0
California	1,686	1,648	2.3%	1,686	1,648	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	849	856	-0.9%	849	856	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	72,456	71,314	1.6%	38,293	37,874	34,163	33,440	0	0	0	0

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	19,401	17,869	8.6%	0	0	19,401	17,869	0	0	0	0
Connecticut	10,621	9,876	7.5%	0	0	10,621	9,876	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,417	2,591	-6.7%	0	0	2,417	2,591	0	0	0	0
New Hampshire	6,363	5,401	17.8%	0	0	6,363	5,401	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	93,406	91,131	2.5%	0	0	93,406	91,131	0	0	0	0
New Jersey	19,983	19,764	1.1%	0	0	19,983	19,764	0	0	0	0
New York	24,828	23,357	6.3%	0	0	24,828	23,357	0	0	0	0
Pennsylvania	48,595	48,010	1.2%	0	0	48,595	48,010	0	0	0	0
East North Central	92,102	90,137	2.2%	14,350	16,099	77,751	74,037	0	0	0	0
Illinois	57,150	55,540	2.9%	0	0	57,150	55,540	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	18,379	19,228	-4.4%	14,350	16,099	4,028	3,128	0	0	0	0
Ohio	10,442	9,725	7.4%	0	0	10,442	9,725	0	0	0	0
Wisconsin	6,130	5,645	8.6%	0	0	6,130	5,645	0	0	0	0
West North Central	26,472	27,395	-3.4%	23,436	24,325	3,036	3,070	0	0	0	0
Iowa	3,036	3,070	-1.1%	0	0	3,036	3,070	0	0	0	0
Kansas	4,705	6,181	-23.9%	4,705	6,181	0	0	0	0	0	0
Minnesota	8,809	8,080	9.0%	8,809	8,080	0	0	0	0	0	0
Missouri	6,178	6,070	1.8%	6,178	6,070	0	0	0	0	0	0
Nebraska	3,745	3,994	-6.2%	3,745	3,994	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	119,698	117,587	1.8%	111,217	108,995	8,480	8,592	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	17,877	16,833	6.2%	17,877	16,833	0	0	0	0	0	0
Georgia	19,918	19,093	4.3%	19,918	19,093	0	0	0	0	0	0
Maryland	8,480	8,592	-1.3%	0	0	8,480	8,592	0	0	0	0
North Carolina	24,228	24,205	0.1%	24,228	24,205	0	0	0	0	0	0
South Carolina	32,349	30,884	4.7%	32,349	30,884	0	0	0	0	0	0
Virginia	16,845	17,980	-6.3%	16,845	17,980	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	47,587	46,203	3.0%	47,587	46,203	0	0	0	0	0	0
Alabama	22,881	24,631	-7.1%	22,881	24,631	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,494	4,936	-49.5%	2,494	4,936	0	0	0	0	0	0
Tennessee	22,212	16,635	33.5%	22,212	16,635	0	0	0	0	0	0
West South Central	42,004	35,171	19.4%	17,368	13,585	24,635	21,586	0	0	0	0
Arkansas	7,719	5,897	30.9%	7,719	5,897	0	0	0	0	0	0
Louisiana	9,649	7,688	25.5%	9,649	7,688	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24,635	21,586	14.1%	0	0	24,635	21,586	0	0	0	0
Mountain	18,591	18,773	-1.0%	18,591	18,773	0	0	0	0	0	0
Arizona	18,591	18,773	-1.0%	18,591	18,773	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	15,763	13,890	13.5%	15,763	13,890	0	0	0	0	0	0
California	10,249	9,601	6.7%	10,249	9,601	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5,514	4,289	28.6%	5,514	4,289	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	475,023	458,155	3.7%	248,313	241,870	226,709	216,285	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	558	593	-5.9%	71	78	458	482	0	0	29	32
Connecticut	19	21	-9.0%	1	2	18	19	0	0	0	0
Maine	277	289	-4.2%	0	0	247	257	0	0	29	32
Massachusetts	66	70	-5.2%	12	14	53	55	0	0	0	0
New Hampshire	100	109	-8.3%	25	26	75	83	0	0	0	0
Rhode Island	0	0	-42.1%	0	0	0	0	0	0	0	0
Vermont	97	105	-7.6%	32	37	65	68	0	0	0	0
Middle Atlantic	2,717	2,791	-2.7%	2,161	2,202	553	582	0	1	3	7
New Jersey	1	NM	NM	0	0	1	NM	0	0	0	0
New York	2,500	2,561	-2.4%	2,152	2,195	345	358	0	1	3	7
Pennsylvania	216	229	-5.5%	9	7	207	222	0	0	0	0
East North Central	454	467	-2.8%	396	407	43	44	0	0	NM	16
Illinois	12	11	6.8%	5	3	7	8	0	0	0	0
Indiana	39	41	-3.3%	39	41	0	0	0	0	0	0
Michigan	128	132	-3.3%	117	121	NM	NM	0	0	NM	NM
Ohio	46	48	-3.9%	30	31	16	17	0	0	0	0
Wisconsin	228	235	-2.8%	205	211	NM	NM	0	0	NM	14
West North Central	918	960	-4.4%	879	924	NM	23	0	0	17	13
Iowa	75	77	-1.5%	75	76	1	1	0	0	0	0
Kansas	3	4	-30.5%	0	0	3	4	0	0	0	0
Minnesota	106	104	2.1%	71	73	NM	NM	0	0	17	13
Missouri	110	120	-8.6%	110	120	0	0	0	0	0	0
Nebraska	128	131	-2.8%	128	131	0	0	0	0	0	0
North Dakota	157	165	-4.6%	157	165	0	0	0	0	0	0
South Dakota	339	359	-5.7%	339	359	0	0	0	0	0	0
South Atlantic	1,237	1,339	-7.6%	989	1,093	200	196	1	1	47	49
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	16	17	-5.3%	16	17	0	0	0	0	0	0
Georgia	229	263	-13.2%	227	262	1	1	0	0	1	1
Maryland	154	148	4.0%	0	0	154	148	0	0	0	0
North Carolina	369	390	-5.3%	364	384	4	4	1	1	NM	NM
South Carolina	186	220	-15.3%	182	215	4	4	0	0	0	0
Virginia	136	148	-8.2%	130	142	6	6	0	0	0	0
West Virginia	148	154	-3.6%	71	73	31	33	0	0	46	47
East South Central	1,666	1,800	-7.4%	1,665	1,799	NM	NM	0	0	0	0
Alabama	672	745	-9.8%	672	745	0	0	0	0	0	0
Kentucky	390	411	-5.0%	389	410	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	604	644	-6.2%	604	644	0	0	0	0	0	0
West South Central	777	823	-5.7%	661	706	115	117	NM	NM	0	0
Arkansas	320	340	-5.8%	314	334	NM	NM	0	0	0	0
Louisiana	106	108	-2.4%	0	0	106	108	0	0	0	0
Oklahoma	232	245	-5.2%	232	245	0	0	0	0	0	0
Texas	119	131	-8.9%	116	127	3	3	NM	NM	0	0
Mountain	2,714	2,838	-4.4%	2,605	2,722	106	113	3	2	0	0
Arizona	647	668	-3.1%	647	668	0	0	0	0	0	0
Colorado	159	172	-7.8%	136	146	NM	NM	3	2	0	0
Idaho	744	774	-3.9%	677	704	67	70	0	0	0	0
Montana	832	863	-3.6%	820	851	NM	NM	0	0	0	0
Nevada	165	190	-13.2%	160	185	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	66	65	1.1%	66	65	0	0	0	0	0	0
Wyoming	82	85	-4.3%	80	83	2	2	0	0	0	0
Pacific Contiguous	12,517	13,985	-10.5%	12,276	13,676	241	309	NM	0	0	0
California	3,190	4,384	-27.2%	3,010	4,138	179	245	NM	0	0	0
Oregon	2,423	2,554	-5.1%	2,400	2,531	NM	NM	0	0	0	0
Washington	6,904	7,046	-2.0%	6,866	7,007	NM	40	0	0	0	0
Pacific Noncontiguous	148	149	0.0%	127	130	3	0	NM	NM	NM	NM
Alaska	139	145	-3.9%	125	130	0	0	NM	NM	0	0
Hawaii	9	NM	NM	3	0	3	0	0	0	NM	NM
U.S. Total	23,706	25,745	-7.9%	21,832	23,736	1,741	1,867	NM	NM	114	121

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	4,190	4,264	-1.7%	561	578	3,398	3,449	2	3	229	234
Connecticut	166	174	-4.6%	21	18	145	156	0	0	0	0
Maine	1,994	2,010	-0.8%	0	0	1,770	1,781	0	0	224	229
Massachusetts	505	519	-2.8%	105	114	393	398	2	3	4	5
New Hampshire	794	810	-2.0%	182	183	612	627	0	0	0	0
Rhode Island	2	2	10.8%	0	0	2	2	0	0	0	0
Vermont	730	749	-2.5%	254	264	476	485	0	0	0	0
Middle Atlantic	18,922	18,757	0.9%	14,731	14,468	4,148	4,237	4	4	39	47
New Jersey	25	20	26.0%	0	0	25	20	0	0	0	0
New York	17,223	17,003	1.3%	14,653	14,396	2,528	2,555	4	4	39	47
Pennsylvania	1,674	1,735	-3.5%	78	72	1,596	1,663	0	0	0	0
East North Central	3,731	3,701	0.8%	3,277	3,249	334	332	1	1	119	120
Illinois	82	77	6.1%	27	23	54	53	1	1	0	0
Indiana	280	280	-0.2%	280	280	0	0	0	0	0	0
Michigan	1,104	1,094	0.9%	1,013	1,002	75	75	0	0	16	17
Ohio	332	336	-1.2%	213	215	119	120	0	0	0	0
Wisconsin	1,933	1,914	1.0%	1,746	1,728	85	83	0	0	102	103
West North Central	7,872	7,953	-1.0%	7,619	7,679	171	175	0	0	82	100
Iowa	631	615	2.6%	627	610	3	5	0	0	0	0
Kansas	14	19	-26.2%	0	0	14	19	0	0	0	0
Minnesota	837	839	-0.2%	601	588	154	151	0	0	82	100
Missouri	850	893	-4.8%	850	893	0	0	0	0	0	0
Nebraska	1,096	1,081	1.3%	1,096	1,081	0	0	0	0	0	0
North Dakota	1,390	1,398	-0.6%	1,390	1,398	0	0	0	0	0	0
South Dakota	3,055	3,108	-1.7%	3,055	3,108	0	0	0	0	0	0
South Atlantic	10,026	10,629	-5.7%	7,882	8,382	1,800	1,900	7	8	337	339
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	118	121	-2.6%	118	121	0	0	0	0	0	0
Georgia	1,839	2,043	-10.0%	1,824	2,028	7	6	0	0	7	9
Maryland	1,434	1,537	-6.7%	0	0	1,434	1,537	0	0	0	0
North Carolina	2,932	3,029	-3.2%	2,887	2,987	35	29	6	7	NM	NM
South Carolina	1,649	1,802	-8.5%	1,608	1,766	40	34	1	1	0	0
Virginia	996	1,034	-3.6%	949	985	48	48	0	0	0	0
West Virginia	1,058	1,064	-0.6%	496	494	237	245	0	0	324	325
East South Central	12,764	13,298	-4.0%	12,758	13,292	NM	NM	0	0	0	0
Alabama	5,569	5,886	-5.4%	5,569	5,886	0	0	0	0	0	0
Kentucky	2,580	2,622	-1.6%	2,574	2,615	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,614	4,791	-3.7%	4,614	4,791	0	0	0	0	0	0
West South Central	5,824	6,015	-3.2%	5,035	5,241	785	771	NM	NM	0	0
Arkansas	2,392	2,480	-3.5%	2,360	2,453	32	26	0	0	0	0
Louisiana	732	726	0.9%	0	0	732	726	0	0	0	0
Oklahoma	1,726	1,770	-2.5%	1,726	1,770	0	0	0	0	0	0
Texas	974	1,040	-6.3%	950	1,017	21	19	NM	NM	0	0
Mountain	22,322	22,003	1.5%	21,407	21,087	907	908	8	8	0	0
Arizona	4,445	4,407	0.9%	4,445	4,407	0	0	0	0	0	0
Colorado	1,409	1,438	-2.1%	1,233	1,254	168	176	8	8	0	0
Idaho	6,509	6,501	0.1%	5,918	5,911	591	590	0	0	0	0
Montana	7,237	7,205	0.5%	7,137	7,105	101	100	0	0	0	0
Nevada	1,274	1,009	26.3%	1,237	978	37	31	0	0	0	0
New Mexico	170	172	-1.1%	170	172	0	0	0	0	0	0
Utah	570	563	1.2%	565	555	5	8	0	0	0	0
Wyoming	708	709	-0.2%	702	705	5	4	0	0	0	0
Pacific Contiguous	98,999	112,406	-11.9%	97,504	110,185	1,485	2,208	NM	12	0	0
California	17,005	30,218	-43.7%	16,039	28,521	956	1,685	NM	12	0	0
Oregon	24,705	25,102	-1.6%	24,506	24,904	199	198	0	0	0	0
Washington	57,289	57,085	0.4%	56,960	56,760	330	325	0	0	0	0
Pacific Noncontiguous	1,281	1,254	2.1%	1,105	1,095	26	8	128	127	22	NM
Alaska	1,219	1,217	0.1%	1,091	1,090	0	0	128	127	0	0
Hawaii	62	37	67.7%	15	5	26	8	0	0	22	NM
U.S. Total	185,930	200,281	-7.2%	171,880	185,256	13,060	13,993	163	167	827	865

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	1,019	1,075	-5.2%	73	87	826	869	16	18	104	101
Connecticut	83	85	-1.3%	0	0	83	84	NM	0	NM	0
Maine	391	420	-7.0%	0	0	282	311	6	9	103	100
Massachusetts	261	238	10.0%	NM	NM	250	227	5	5	1	0
New Hampshire	172	214	-19.8%	28	29	140	181	4	4	0	0
Rhode Island	34	30	12.2%	0	0	33	30	1	0	0	0
Vermont	77	88	-12.6%	39	51	38	36	0	0	0	0
Middle Atlantic	1,203	1,204	0.0%	11	11	1,066	1,050	67	69	59	74
New Jersey	229	214	7.1%	11	11	182	169	34	33	NM	NM
New York	549	537	2.3%	0	0	511	498	22	23	16	16
Pennsylvania	426	454	-6.2%	0	0	373	383	11	14	42	56
East North Central	2,026	1,896	6.9%	286	265	1,579	1,464	20	22	141	145
Illinois	714	656	8.9%	NM	NM	711	653	NM	NM	0	0
Indiana	362	335	8.0%	40	37	314	290	2	2	7	7
Michigan	534	519	2.9%	124	117	338	327	14	14	58	60
Ohio	143	141	1.3%	NM	NM	116	112	NM	NM	23	25
Wisconsin	273	245	11.5%	116	106	100	82	3	5	54	53
West North Central	4,153	4,128	0.6%	1,234	1,199	2,841	2,858	17	15	61	56
Iowa	1,124	1,074	4.7%	707	670	409	395	4	3	4	5
Kansas	1,006	1,206	-16.6%	113	131	892	1,074	NM	NM	0	0
Minnesota	927	812	14.2%	168	159	698	600	NM	NM	56	50
Missouri	175	139	25.8%	3	4	166	129	6	6	0	0
Nebraska	272	228	19.0%	22	19	248	209	1	1	0	0
North Dakota	527	555	-5.0%	186	186	341	369	0	0	0	NM
South Dakota	121	114	6.6%	34	31	87	82	0	0	0	0
South Atlantic	3,293	2,878	14.4%	506	302	1,787	1,572	42	39	958	965
Delaware	13	12	4.5%	NM	NM	10	10	NM	NM	NM	NM
District of Columbia	5	5	-14.1%	0	0	0	5	5	0	0	0
Florida	624	453	37.7%	230	60	220	220	5	4	169	169
Georgia	660	677	-2.5%	33	28	251	289	NM	NM	376	359
Maryland	126	119	6.3%	NM	NM	116	101	3	NM	6	15
North Carolina	989	870	13.7%	46	46	824	688	15	14	104	122
South Carolina	295	257	14.7%	36	37	95	57	0	0	164	164
Virginia	484	373	29.8%	159	129	174	90	14	18	137	135
West Virginia	97	112	-12.9%	0	0	97	112	0	0	0	0
East South Central	673	627	7.4%	17	14	129	85	NM	NM	526	527
Alabama	343	329	4.2%	4	4	62	42	0	0	276	282
Kentucky	45	41	9.8%	13	9	NM	1	0	0	31	31
Mississippi	175	152	14.8%	0	0	35	15	0	0	140	137
Tennessee	111	104	5.9%	0	0	31	27	NM	NM	79	76
West South Central	6,902	6,689	3.2%	92	115	6,334	6,096	7	5	469	473
Arkansas	153	132	16.1%	NM	NM	31	12	1	1	122	119
Louisiana	246	253	-2.8%	NM	0	7	7	0	0	239	246
Oklahoma	1,414	1,542	-8.3%	76	98	1,311	1,416	0	0	28	27
Texas	5,089	4,763	6.8%	NM	17	4,986	4,660	6	5	81	80
Mountain	3,604	3,193	12.9%	274	239	3,282	2,907	15	14	34	33
Arizona	595	485	22.6%	85	60	508	423	NM	NM	0	0
Colorado	814	662	23.0%	NM	20	793	639	NM	NM	0	0
Idaho	271	277	-2.3%	NM	NM	229	245	1	1	32	31
Montana	114	108	5.6%	NM	NM	102	96	0	0	2	2
Nevada	791	686	15.3%	4	4	779	674	8	7	0	0
New Mexico	474	434	9.2%	26	25	447	409	NM	NM	0	0
Utah	316	308	2.5%	23	22	292	285	1	0	0	0
Wyoming	230	233	-1.1%	96	97	134	136	0	0	0	0
Pacific Contiguous	6,678	6,512	2.5%	683	739	5,684	5,454	82	85	228	234
California	5,202	4,932	5.5%	248	228	4,807	4,561	78	81	69	62
Oregon	834	869	-4.1%	151	183	634	637	3	3	47	47
Washington	642	711	-9.7%	285	329	244	257	NM	NM	112	124
Pacific Noncontiguous	118	117	0.5%	15	15	81	82	21	20	NM	NM
Alaska	NM	NM	NM	NM	NM	NM	NM	3	4	NM	NM
Hawaii	105	103	1.2%	9	8	78	79	18	16	0	0
U.S. Total	29,668	28,319	4.8%	3,192	2,986	23,610	22,438	287	289	2,580	2,607

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	7,212	7,037	2.5%	470	511	5,973	5,743	107	117	663	665
Connecticut	499	532	-6.2%	2	2	496	530	NM	0	NM	0
Maine	3,075	3,059	0.5%	0	0	2,373	2,341	42	54	660	665
Massachusetts	1,664	1,425	16.8%	48	46	1,578	1,345	36	34	3	1
New Hampshire	1,172	1,289	-9.1%	136	169	1,014	1,097	23	23	0	0
Rhode Island	241	220	9.3%	0	0	236	216	5	4	0	0
Vermont	561	511	9.9%	285	294	275	215	1	1	0	0
Middle Atlantic	9,111	8,668	5.1%	64	56	8,150	7,690	437	423	459	499
New Jersey	1,401	1,227	14.2%	64	56	1,117	967	212	197	7	6
New York	4,155	3,880	7.1%	0	0	3,907	3,632	134	134	114	115
Pennsylvania	3,555	3,560	-0.2%	0	0	3,126	3,091	91	92	338	378
East North Central	19,801	18,155	9.1%	2,429	2,266	16,250	14,802	133	137	990	951
Illinois	7,616	7,177	6.1%	20	21	7,590	7,153	NM	NM	0	0
Indiana	3,780	3,183	18.8%	261	238	3,460	2,884	13	13	47	48
Michigan	4,724	4,514	4.6%	1,217	1,178	3,031	2,881	75	80	401	375
Ohio	1,507	1,461	3.2%	17	15	1,308	1,266	8	9	174	172
Wisconsin	2,174	1,820	19.5%	913	815	861	617	31	32	368	355
West North Central	46,025	43,888	4.9%	14,157	14,311	31,339	29,057	112	112	417	408
Iowa	12,775	12,516	2.1%	8,113	8,082	4,613	4,382	31	26	17	26
Kansas	11,737	11,018	6.5%	1,187	1,008	10,541	10,002	NM	NM	0	0
Minnesota	8,711	7,972	9.3%	1,719	1,784	6,566	5,782	32	29	393	377
Missouri	1,881	1,172	60.5%	23	23	1,825	1,110	32	37	2	2
Nebraska	3,092	3,083	0.3%	158	154	2,925	2,917	8	11	0	0
North Dakota	6,163	6,273	-1.8%	2,446	2,677	3,713	3,593	0	0	4	3
South Dakota	1,665	1,853	-10.1%	511	582	1,155	1,271	0	0	0	0
South Atlantic	22,024	18,545	18.8%	3,204	2,001	12,120	9,966	260	251	6,439	6,327
Delaware	81	76	6.3%	5	NM	63	59	4	4	9	9
District of Columbia	34	29	19.4%	0	0	20	29	14	0	0	0
Florida	4,430	3,363	31.7%	1,414	421	1,784	1,709	31	30	1,200	1,202
Georgia	4,283	4,073	5.2%	194	171	1,639	1,557	NM	NM	2,448	2,342
Maryland	903	817	10.5%	7	6	817	732	17	11	61	68
North Carolina	6,212	5,020	23.7%	264	216	5,065	3,970	89	82	793	752
South Carolina	1,914	1,628	17.5%	266	260	590	293	0	0	1,059	1,076
Virginia	3,098	2,543	21.8%	1,055	922	1,074	622	101	121	869	877
West Virginia	1,069	996	7.4%	0	0	1,069	996	0	0	0	0
East South Central	4,272	3,907	9.3%	110	75	782	444	NM	NM	3,377	3,384
Alabama	2,208	2,084	6.0%	25	12	373	263	0	0	1,810	1,809
Kentucky	297	268	10.9%	85	63	5	4	0	0	207	200
Mississippi	1,066	899	18.5%	0	0	214	26	0	0	852	873
Tennessee	701	656	6.9%	0	0	190	150	NM	NM	507	502
West South Central	70,388	60,515	16.3%	1,067	1,094	66,131	56,336	55	47	3,134	3,038
Arkansas	1,017	876	16.1%	NM	NM	190	82	3	4	822	790
Louisiana	1,634	1,630	0.2%	NM	0	49	48	0	0	1,583	1,582
Oklahoma	17,693	14,824	19.4%	896	933	16,603	13,751	0	0	193	140
Texas	50,044	43,184	15.9%	168	160	49,289	42,455	52	44	535	526
Mountain	28,328	25,538	10.9%	2,398	2,227	25,600	23,009	88	83	241	220
Arizona	3,706	3,410	8.7%	503	363	3,189	3,034	14	13	0	0
Colorado	6,805	6,346	7.2%	202	192	6,586	6,137	15	15	2	2
Idaho	2,242	2,116	5.9%	88	7	1,923	1,898	6	6	225	205
Montana	1,290	1,299	-0.7%	127	135	1,150	1,152	0	0	12	12
Nevada	5,075	4,420	14.8%	26	26	5,004	4,353	44	39	2	2
New Mexico	4,548	3,212	41.6%	160	149	4,386	3,061	NM	NM	0	0
Utah	2,094	2,107	-0.6%	154	154	1,933	1,947	8	7	0	0
Wyoming	2,569	2,629	-2.3%	1,139	1,202	1,430	1,427	0	0	0	0
Pacific Contiguous	47,345	43,651	8.5%	5,075	4,762	40,137	36,845	570	582	1,564	1,462
California	35,517	33,044	7.5%	1,330	1,318	33,210	30,787	540	553	437	385
Oregon	5,861	4,901	19.6%	905	712	4,622	3,868	19	19	315	301
Washington	5,967	5,706	4.6%	2,840	2,732	2,305	2,189	10	10	812	775
Pacific Noncontiguous	949	913	3.9%	114	121	696	663	139	129	NM	NM
Alaska	126	121	3.8%	65	63	34	35	27	23	NM	NM
Hawaii	824	792	4.0%	49	57	662	628	113	107	0	0
U.S. Total	255,456	230,817	10.7%	29,088	27,423	207,179	184,555	1,905	1,885	17,284	16,954

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	-52	-49	7.7%	0	0	-52	-49	0	0	0	0
Connecticut	0	1	-66.7%	0	0	0	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-52	-49	6.9%	0	0	-52	-49	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-139	-127	9.9%	-69	-61	-70	-65	0	0	0	0
New Jersey	-22	-21	1.3%	-22	-21	0	0	0	0	0	0
New York	-47	-40	18.1%	-47	-40	0	0	0	0	0	0
Pennsylvania	-70	-65	7.8%	0	0	-70	-65	0	0	0	0
East North Central	-82	-100	-17.3%	-82	-100	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	-82	-100	-17.3%	-82	-100	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	-15	9	-256.6%	-15	9	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	-15	9	-256.6%	-15	9	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-369	-445	-17.0%	-369	-445	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	-74	-126	-41.4%	-74	-126	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	-114	-123	-7.6%	-114	-123	0	0	0	0	0	0
Virginia	-182	-196	-7.2%	-182	-196	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-62	-98	-37.0%	-62	-98	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	-62	-98	-37.0%	-62	-98	0	0	0	0	0	0
West South Central	-14	-13	1.1%	-14	-13	0	0	0	0	0	0
Arkansas	1	0	223.1%	1	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-14	-14	4.3%	-14	-14	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-1	-17	-97.0%	-1	-17	0	0	0	0	0	0
Arizona	25	17	45.0%	25	17	0	0	0	0	0	0
Colorado	-25	-34	-24.9%	-25	-34	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	89	79	12.9%	89	79	0	0	0	0	0	0
California	87	79	10.0%	87	79	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	0	-492.9%	2	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	-644	-759	-15.1%	-522	-646	-123	-114	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 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	-260	-250	4.2%	0	0	-260	-250	0	0	0	0
Connecticut	-4	-4	-1.6%	0	0	-4	-4	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-257	-246	4.3%	0	0	-257	-246	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	-705	-672	4.8%	-341	-325	-364	-347	0	0	0	0
New Jersey	-92	-95	-3.6%	-92	-95	0	0	0	0	0	0
New York	-249	-229	8.6%	-249	-229	0	0	0	0	0	0
Pennsylvania	-364	-347	4.6%	0	0	-364	-347	0	0	0	0
East North Central	-381	-390	-2.3%	-381	-390	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	-381	-390	-2.3%	-381	-390	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	22	87	-75.0%	22	87	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	22	87	-75.0%	22	87	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	-1,401	-2,015	-30.5%	-1,401	-2,015	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	-285	-737	-61.3%	-285	-737	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	-331	-599	-44.7%	-331	-599	0	0	0	0	0	0
Virginia	-784	-679	15.5%	-784	-679	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-348	-380	-8.4%	-348	-380	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	-348	-380	-8.4%	-348	-380	0	0	0	0	0	0
West South Central	-46	-53	-12.0%	-46	-53	0	0	0	0	0	0
Arkansas	29	16	81.5%	29	16	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-75	-69	9.7%	-75	-69	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-156	-217	-28.1%	-156	-217	0	0	0	0	0	0
Arizona	20	-25	-180.6%	20	-25	0	0	0	0	0	0
Colorado	-176	-192	-8.4%	-176	-192	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	78	236	-66.9%	78	236	0	0	0	0	0	0
California	50	234	-78.7%	50	234	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	28	2	NM	28	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	-3,197	-3,653	-12.5%	-2,573	-3,056	-624	-597	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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	155	160	-2.9%	0	0	138	140	6	8	11	11
Connecticut	46	48	-3.4%	0	0	46	48	0	0	0	0
Maine	32	36	-10.4%	0	0	16	17	6	8	11	11
Massachusetts	72	71	1.3%	0	0	72	71	0	0	0	0
New Hampshire	4	4	-3.0%	0	0	4	4	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	197	212	-6.9%	0	0	160	166	38	41	0	6
New Jersey	46	49	-6.6%	0	0	34	32	12	12	0	6
New York	82	83	-1.6%	0	0	62	62	20	21	0	0
Pennsylvania	70	80	-12.7%	0	0	64	72	6	8	0	0
East North Central	82	84	-3.2%	1	1	10	8	15	15	56	60
Illinois	22	24	-10.2%	0	0	-1	-2	0	0	23	26
Indiana	30	30	-2.2%	0	0	0	0	2	2	28	28
Michigan	25	25	1.8%	0	0	11	10	13	13	1	1
Ohio	0	-1	-116.1%	0	0	0	-1	0	0	0	0
Wisconsin	5	6	-18.0%	2	1	0	0	0	0	NM	5
West North Central	42	40	3.0%	23	20	13	13	NM	3	3	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	-0.5%	0	0	0	0	0	0	0	0
Minnesota	37	36	3.6%	19	16	13	13	NM	3	2	4
Missouri	0	1	-100.0%	0	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	12.6%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	352	381	-7.6%	0	0	220	178	13	17	119	186
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	239	268	-10.9%	0	0	132	119	0	0	107	150
Georgia	9	7	31.6%	0	0	0	0	0	0	9	7
Maryland	29	29	1.4%	0	0	29	29	0	0	0	0
North Carolina	29	58	-49.3%	0	0	29	31	0	0	0	26
South Carolina	4	4	9.4%	0	0	1	1	0	0	3	3
Virginia	42	17	153.1%	0	0	29	0	13	17	0	0
West Virginia	-1	-1	-14.9%	0	0	-1	-1	0	0	0	0
East South Central	7	6	30.7%	7	4	0	0	0	0	NM	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	4	92.6%	7	4	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	2	NM	0	0	0	0	0	0	NM	2
West South Central	102	141	-27.8%	0	0	5	12	0	0	97	129
Arkansas	1	NM	NM	0	0	0	0	0	0	1	NM
Louisiana	62	80	-22.5%	0	0	0	0	0	0	62	80
Oklahoma	2	5	-62.5%	0	0	1	5	0	0	1	1
Texas	37	55	-32.7%	0	0	4	8	0	0	33	47
Mountain	60	57	6.0%	3	2	25	28	0	0	32	27
Arizona	0	0	404.2%	0	0	0	0	0	0	0	0
Colorado	5	5	3.7%	0	0	1	1	0	0	4	4
Idaho	6	6	-3.1%	0	0	0	0	0	0	6	6
Montana	24	27	-10.2%	0	0	24	27	0	0	0	0
Nevada	3	2	37.2%	3	2	0	0	0	0	0	0
New Mexico	0	0	-127.7%	0	0	0	0	0	0	0	0
Utah	15	17	-10.3%	0	0	0	0	0	0	15	17
Wyoming	7	0	--	0	0	0	0	0	0	7	0
Pacific Contiguous	84	91	-7.5%	0	0	21	26	0	0	62	65
California	75	81	-8.2%	0	0	12	17	0	0	62	65
Oregon	3	3	1.6%	0	0	3	3	0	0	0	0
Washington	6	6	-1.6%	0	0	6	6	0	0	0	0
Pacific Noncontiguous	34	33	2.4%	17	18	0	0	17	16	0	0
Alaska	0	0	18.1%	0	0	0	0	0	0	0	0
Hawaii	34	34	2.5%	18	18	0	0	17	16	0	0
U.S. Total	1,115	1,205	-7.4%	51	43	593	571	91	100	381	490

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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 July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	1,005	1,063	-5.5%	0	0	890	934	40	50	75	79
Connecticut	265	316	-16.0%	0	0	265	316	0	0	0	0
Maine	218	236	-7.4%	0	0	103	107	40	50	75	79
Massachusetts	494	483	2.2%	0	0	494	483	0	0	0	0
New Hampshire	28	28	-2.9%	0	0	28	28	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	1,285	1,329	-3.4%	0	0	1,021	1,030	258	260	6	40
New Jersey	321	327	-1.8%	0	0	230	203	86	84	6	40
New York	510	510	0.1%	0	0	389	387	121	123	0	0
Pennsylvania	453	493	-8.0%	0	0	402	439	52	53	0	0
East North Central	509	494	3.0%	9	8	66	43	84	89	350	355
Illinois	148	136	9.0%	0	0	-9	-14	0	0	157	150
Indiana	164	180	-9.2%	0	0	0	0	12	12	152	169
Michigan	157	147	6.7%	0	0	76	61	72	77	9	9
Ohio	6	-1	-885.8%	-1	-2	0	-4	0	0	7	5
Wisconsin	35	32	10.1%	11	10	0	0	0	0	25	22
West North Central	265	260	1.7%	130	118	81	91	19	19	35	32
Iowa	0	2	-100.0%	0	0	0	0	0	0	0	2
Kansas	3	3	11.0%	0	0	0	0	0	0	3	3
Minnesota	236	230	2.7%	104	92	81	91	19	19	32	27
Missouri	1	1	-44.9%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	25	24	3.2%	25	24	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,605	2,537	2.7%	0	0	1,469	1,251	90	109	1,045	1,177
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	1,741	1,837	-5.2%	0	0	903	892	0	0	838	945
Georgia	62	54	13.9%	0	0	0	0	0	0	62	54
Maryland	192	180	6.7%	0	0	192	180	0	0	0	0
North Carolina	316	312	1.2%	0	0	188	156	0	0	127	155
South Carolina	22	26	-15.9%	0	0	4	4	0	0	18	22
Virginia	280	136	105.3%	0	0	190	27	90	109	0	0
West Virginia	-7	-8	-9.5%	0	0	-7	-8	0	0	0	0
East South Central	38	34	11.8%	32	19	0	0	0	0	6	15
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	32	19	71.2%	32	19	0	0	0	0	0	0
Mississippi	0	2	-100.0%	0	0	0	0	0	0	0	2
Tennessee	6	13	-56.5%	0	0	0	0	0	0	6	13
West South Central	659	694	-5.1%	0	0	71	65	0	0	588	629
Arkansas	5	4	31.7%	0	0	0	0	0	0	5	4
Louisiana	400	352	13.6%	0	0	0	0	0	0	400	352
Oklahoma	28	23	21.1%	0	0	25	24	0	0	3	-1
Texas	226	315	-28.4%	0	0	46	41	0	0	180	274
Mountain	419	377	11.3%	17	17	188	201	0	0	214	159
Arizona	-1	0	172.8%	0	0	-1	0	0	0	0	0
Colorado	36	33	8.7%	0	0	12	9	0	0	23	24
Idaho	39	35	10.1%	0	0	0	0	0	0	39	35
Montana	177	191	-7.6%	0	0	177	191	0	0	0	0
Nevada	17	18	-5.0%	17	18	0	0	0	0	0	0
New Mexico	0	0	-65.2%	0	0	0	0	0	0	0	0
Utah	101	78	29.6%	0	0	0	0	0	0	101	78
Wyoming	51	22	131.6%	0	0	0	0	0	0	51	22
Pacific Contiguous	564	560	0.8%	0	-2	162	163	0	0	403	399
California	505	508	-0.5%	0	-2	102	111	0	0	403	399
Oregon	24	21	11.4%	0	0	24	22	0	0	0	0
Washington	35	30	16.3%	0	0	35	30	0	0	0	0
Pacific Noncontiguous	213	204	4.4%	104	99	0	2	108	103	0	0
Alaska	-1	-2	-17.9%	-1	-2	0	0	0	0	0	0
Hawaii	214	205	4.2%	106	101	0	2	108	103	0	0
U.S. Total	7,562	7,553	0.1%	293	259	3,948	3,780	599	629	2,722	2,886

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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, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	224	218	2.8%	NM	NM	207	200	2	1	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	143	139	2.4%	0	0	143	139	0	0	0	0
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	1	0	0
New Hampshire	30	32	-6.4%	0	0	30	32	0	0	0	0
Rhode Island	10	10	7.9%	0	0	10	9	1	0	0	0
Vermont	25	NM	NM	NM	NM	14	NM	0	0	0	0
Middle Atlantic	515	537	-3.9%	0	0	515	537	NM	0	0	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	296	308	-3.7%	0	0	296	308	NM	0	0	0
Pennsylvania	218	227	-4.2%	0	0	218	227	0	0	0	0
East North Central	1,443	1,322	9.2%	183	182	1,255	1,137	NM	NM	NM	NM
Illinois	675	608	11.0%	NM	NM	674	606	NM	NM	0	0
Indiana	283	260	8.9%	0	0	283	260	0	0	0	0
Michigan	293	278	5.4%	111	104	182	173	0	0	0	0
Ohio	70	67	5.4%	NM	NM	65	62	0	0	NM	NM
Wisconsin	123	111	11.1%	70	75	53	35	0	0	0	0
West North Central	3,767	3,803	-0.9%	1,179	1,148	2,586	2,652	NM	NM	0	0
Iowa	1,102	1,052	4.8%	704	667	398	384	0	0	0	0
Kansas	1,000	1,201	-16.7%	113	131	887	1,069	NM	NM	0	0
Minnesota	607	545	11.5%	127	121	479	422	NM	NM	0	0
Missouri	149	119	25.6%	0	0	149	119	0	0	0	0
Nebraska	260	218	19.1%	NM	NM	245	206	0	0	0	0
North Dakota	527	555	-5.0%	186	186	341	369	0	0	0	0
South Dakota	121	113	6.6%	34	31	86	82	0	0	0	0
South Atlantic	158	171	-7.8%	0	0	157	171	0	0	0	0
Delaware	0	0	45.8%	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	30	31	-3.1%	0	0	30	31	0	0	0	0
North Carolina	30	28	7.2%	0	0	30	28	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	97	112	-12.9%	0	0	97	112	0	0	0	0
East South Central	NM	NM	NM	0	0	NM	NM	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	5,932	5,907	0.4%	84	109	5,843	5,794	4	3	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,378	1,508	-8.7%	69	93	1,309	1,415	0	0	0	0
Texas	4,554	4,398	3.5%	NM	16	4,533	4,379	4	3	NM	0
Mountain	1,653	1,495	10.6%	134	127	1,518	1,367	NM	NM	0	0
Arizona	39	42	-7.2%	0	0	39	42	0	0	0	0
Colorado	691	551	25.5%	NM	20	672	530	NM	NM	0	0
Idaho	155	162	-4.4%	NM	0	146	162	0	0	0	0
Montana	108	104	3.6%	NM	NM	98	94	0	0	0	0
Nevada	23	25	-6.8%	0	0	23	25	0	0	0	0
New Mexico	343	318	7.9%	0	0	343	317	NM	NM	0	0
Utah	64	60	6.3%	0	0	64	60	0	0	0	0
Wyoming	230	233	-1.1%	96	97	134	136	0	0	0	0
Pacific Contiguous	2,151	2,257	-4.7%	515	547	1,635	1,709	0	0	1	1
California	1,002	995	0.7%	113	94	888	900	0	0	1	1
Oregon	659	740	-11.0%	144	177	514	563	0	0	0	0
Washington	491	521	-5.9%	258	276	233	246	0	0	0	0
Pacific Noncontiguous	48	51	-5.4%	NM	NM	42	44	0	0	0	0
Alaska	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Hawaii	39	41	-5.9%	0	0	39	41	0	0	0	0
U.S. Total	15,897	15,765	0.8%	2,117	2,136	13,763	13,616	10	9	NM	NM

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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 July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	2,199	1,974	11.4%	143	136	2,035	1,821	19	17	2	1
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,444	1,321	9.2%	0	0	1,444	1,321	0	0	0	0
Massachusetts	142	133	6.3%	35	34	91	86	14	13	2	1
New Hampshire	277	254	8.8%	0	0	277	254	0	0	0	0
Rhode Island	98	90	8.8%	0	0	93	85	5	4	0	0
Vermont	231	168	37.8%	108	102	123	66	0	0	0	0
Middle Atlantic	4,778	4,510	5.9%	0	0	4,774	4,509	NM	0	2	1
New Jersey	13	NM	NM	0	0	13	NM	0	0	0	0
New York	2,618	2,445	7.1%	0	0	2,614	2,444	NM	0	2	1
Pennsylvania	2,147	2,053	4.6%	0	0	2,147	2,053	0	0	0	0
East North Central	15,912	14,388	10.6%	1,781	1,710	14,081	12,638	NM	NM	45	34
Illinois	7,325	6,854	6.9%	8	7	7,314	6,844	NM	NM	0	0
Indiana	3,276	2,717	20.5%	0	0	3,276	2,716	0	1	0	0
Michigan	3,143	2,981	5.4%	1,147	1,139	1,995	1,842	0	0	0	0
Ohio	1,010	965	4.6%	NM	NM	958	927	2	2	41	30
Wisconsin	1,159	871	33.2%	618	558	538	308	0	0	4	5
West North Central	43,641	41,992	3.9%	13,810	13,985	29,804	27,980	27	27	0	0
Iowa	12,632	12,411	1.8%	8,092	8,065	4,539	4,343	2	3	0	0
Kansas	11,698	10,983	6.5%	1,186	1,008	10,504	9,967	NM	NM	0	0
Minnesota	6,729	6,406	5.0%	1,465	1,542	5,248	4,847	16	17	0	0
Missouri	1,738	1,053	65.1%	0	0	1,738	1,053	0	0	0	0
Nebraska	3,021	3,016	0.2%	111	110	2,910	2,907	0	0	0	0
North Dakota	6,158	6,270	-1.8%	2,446	2,677	3,713	3,593	0	0	0	0
South Dakota	1,664	1,852	-10.1%	511	582	1,153	1,269	0	0	0	0
South Atlantic	1,725	1,597	8.0%	0	0	1,721	1,594	3	3	0	0
Delaware	3	3	6.4%	0	0	0	0	3	3	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	311	308	0.8%	0	0	311	308	0	0	0	0
North Carolina	342	290	17.7%	0	0	342	290	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	1,069	996	7.4%	0	0	1,069	996	0	0	0	0
East South Central	30	20	48.9%	0	0	30	20	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	30	20	48.9%	0	0	30	20	0	0	0	0
West South Central	64,558	55,714	15.9%	1,020	1,070	63,497	54,620	32	24	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	17,451	14,655	19.1%	857	912	16,594	13,743	0	0	0	0
Texas	47,108	41,059	14.7%	164	158	46,903	40,878	32	24	NM	0
Mountain	16,323	14,802	10.3%	1,545	1,528	14,770	13,266	NM	NM	2	2
Arizona	374	380	-1.8%	0	0	374	380	0	0	0	0
Colorado	6,057	5,686	6.5%	198	191	5,854	5,489	NM	NM	2	2
Idaho	1,539	1,489	3.3%	81	0	1,458	1,489	0	0	0	0
Montana	1,254	1,279	-2.0%	127	135	1,127	1,145	0	0	0	0
Nevada	230	231	-0.4%	0	0	230	231	0	0	0	0
New Mexico	3,762	2,520	49.2%	0	0	3,760	2,518	NM	NM	0	0
Utah	540	588	-8.1%	0	0	540	588	0	0	0	0
Wyoming	2,569	2,629	-2.3%	1,139	1,202	1,430	1,427	0	0	0	0
Pacific Contiguous	18,839	17,487	7.7%	3,900	3,556	14,932	13,924	3	4	3	3
California	9,237	8,884	4.0%	460	468	8,771	8,409	3	4	3	3
Oregon	4,791	4,061	18.0%	864	671	3,927	3,391	0	0	0	0
Washington	4,811	4,541	5.9%	2,577	2,417	2,234	2,124	0	0	0	0
Pacific Noncontiguous	510	496	2.7%	65	63	445	433	0	0	0	0
Alaska	99	98	0.5%	65	63	34	35	0	0	0	0
Hawaii	411	398	3.3%	0	0	411	398	0	0	0	0
U.S. Total	168,514	152,980	10.2%	22,265	22,047	146,090	130,805	96	87	63	40

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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, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	615	717	-14.2%	49	63	450	537	13	16	103	100
Connecticut	70	78	-9.6%	0	0	70	78	0	0	0	0
Maine	247	280	-11.8%	0	0	138	171	6	9	103	100
Massachusetts	101	106	-3.9%	0	0	99	103	3	3	0	0
New Hampshire	142	182	-22.2%	28	29	110	148	4	4	0	0
Rhode Island	19	19	4.6%	0	0	19	19	0	0	0	0
Vermont	35	53	-33.2%	22	34	13	19	0	0	0	0
Middle Atlantic	478	500	-4.5%	0	0	376	380	45	49	57	72
New Jersey	79	80	-1.6%	0	0	65	66	14	14	0	0
New York	202	204	-1.1%	0	0	165	166	21	22	16	16
Pennsylvania	197	216	-8.8%	0	0	147	148	10	13	41	55
East North Central	490	497	-1.6%	71	56	263	279	19	21	137	141
Illinois	33	42	-21.8%	1	2	31	40	0	0	0	0
Indiana	36	37	-1.8%	24	24	4	4	2	2	7	7
Michigan	220	228	-3.8%	0	0	148	154	14	14	58	60
Ohio	56	61	-6.8%	0	NM	37	38	1	1	19	22
Wisconsin	145	130	11.3%	46	30	43	43	3	5	53	52
West North Central	205	222	-7.7%	52	49	78	104	14	13	61	56
Iowa	20	21	-6.0%	NM	NM	10	10	4	3	4	5
Kansas	5	5	1.6%	0	0	5	5	0	0	0	0
Minnesota	159	174	-8.7%	41	37	59	85	3	2	56	50
Missouri	12	13	-7.3%	NM	3	4	4	6	6	0	0
Nebraska	8	8	4.9%	7	7	0	0	1	1	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,725	1,720	0.3%	225	156	518	575	25	24	957	965
Delaware	6	6	-1.2%	0	0	4	4	0	0	NM	NM
District of Columbia	5	5	-14.1%	0	0	0	5	5	0	0	0
Florida	404	383	5.4%	51	6	180	204	4	4	169	169
Georgia	428	453	-5.4%	0	0	53	93	0	0	376	359
Maryland	45	53	-14.1%	0	0	37	37	2	NM	6	15
North Carolina	216	237	-8.9%	0	0	110	114	NM	NM	104	122
South Carolina	234	247	-5.5%	36	37	33	47	0	0	164	164
Virginia	389	337	15.3%	137	113	100	71	14	18	137	135
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	566	568	-0.3%	8	8	33	33	0	0	525	527
Alabama	300	307	-2.2%	0	0	24	25	0	0	276	282
Kentucky	39	39	0.0%	8	8	1	1	0	0	31	31
Mississippi	141	138	1.9%	0	0	NM	NM	0	0	140	137
Tennessee	85	83	2.4%	0	0	7	7	0	0	78	76
West South Central	564	537	5.1%	0	0	95	62	3	2	467	473
Arkansas	131	128	2.0%	0	0	9	9	1	1	122	119
Louisiana	246	253	-2.9%	0	0	7	7	0	0	239	246
Oklahoma	30	28	3.6%	0	0	2	NM	0	0	28	27
Texas	158	127	24.6%	0	0	76	45	2	2	79	80
Mountain	94	99	-5.4%	NM	NM	57	64	2	2	34	32
Arizona	18	24	-25.8%	0	0	18	24	0	0	0	0
Colorado	14	15	-8.1%	0	0	14	15	0	0	0	0
Idaho	47	46	2.7%	NM	NM	13	13	1	1	32	31
Montana	2	2	12.6%	0	0	0	0	0	0	2	2
Nevada	5	5	-2.8%	0	0	5	5	0	0	0	0
New Mexico	1	1	7.1%	0	0	1	1	0	0	0	0
Utah	7	6	14.2%	0	0	5	5	1	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	742	797	-6.9%	38	66	417	432	65	71	222	229
California	500	517	-3.3%	6	7	369	385	61	67	63	57
Oregon	92	90	1.2%	5	5	37	35	3	3	47	47
Washington	151	190	-20.4%	27	53	11	11	NM	NM	112	124
Pacific Noncontiguous	27	24	9.8%	6	4	0	0	21	20	NM	NM
Alaska	3	4	-9.6%	0	0	0	0	3	4	NM	NM
Hawaii	23	20	13.5%	6	4	0	0	18	16	0	0
U.S. Total	5,505	5,682	-3.1%	450	402	2,286	2,467	207	217	2,563	2,595

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

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	3,987	4,340	-8.1%	279	329	2,966	3,251	83	96	660	665
Connecticut	423	492	-13.9%	0	0	423	492	0	0	0	0
Maine	1,623	1,732	-6.3%	0	0	922	1,014	42	54	660	665
Massachusetts	692	695	-0.5%	0	0	674	678	17	17	0	0
New Hampshire	895	1,035	-13.5%	136	169	737	842	23	23	0	0
Rhode Island	119	120	-0.6%	0	0	119	120	0	0	0	0
Vermont	235	266	-11.8%	143	160	91	105	1	1	0	0
Middle Atlantic	3,226	3,293	-2.0%	0	0	2,470	2,492	312	316	443	486
New Jersey	562	528	6.4%	0	0	462	430	100	99	0	0
New York	1,319	1,311	0.6%	0	0	1,079	1,068	128	130	112	114
Pennsylvania	1,345	1,454	-7.5%	0	0	929	995	84	87	331	372
East North Central	3,384	3,390	-0.2%	473	437	1,845	1,909	122	129	944	916
Illinois	253	290	-12.7%	11	12	242	277	0	0	0	0
Indiana	254	254	0.0%	165	165	29	29	13	12	47	48
Michigan	1,489	1,494	-0.3%	0	0	1,014	1,039	75	80	401	375
Ohio	403	419	-4.0%	NM	NM	266	271	4	5	132	141
Wisconsin	985	933	5.6%	296	257	294	292	31	32	364	351
West North Central	1,426	1,446	-1.4%	330	318	595	636	84	84	417	408
Iowa	132	102	29.5%	12	13	73	39	29	24	17	26
Kansas	34	33	1.6%	0	0	34	33	0	0	0	0
Minnesota	1,122	1,165	-3.7%	251	238	461	537	16	13	393	377
Missouri	79	87	-9.2%	20	22	27	27	31	36	2	2
Nebraska	55	56	-1.1%	47	45	0	0	8	11	0	0
North Dakota	4	3	43.9%	0	0	0	0	0	0	4	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	11,917	11,484	3.8%	1,409	1,148	3,910	3,847	161	162	6,437	6,327
Delaware	38	38	-0.8%	0	0	29	29	0	0	9	9
District of Columbia	34	29	19.4%	0	0	20	29	14	0	0	0
Florida	3,007	2,924	2.8%	251	49	1,530	1,645	28	28	1,198	1,202
Georgia	2,900	2,758	5.1%	0	0	452	415	0	0	2,448	2,342
Maryland	321	311	3.3%	0	0	247	235	12	7	61	68
North Carolina	1,529	1,486	2.9%	0	0	730	728	6	6	793	752
South Carolina	1,550	1,591	-2.6%	266	260	225	256	0	0	1,059	1,076
Virginia	2,539	2,347	8.2%	893	839	676	510	101	121	869	877
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,644	3,654	-0.3%	52	52	219	217	0	0	3,373	3,384
Alabama	1,971	1,969	0.1%	0	0	161	160	0	0	1,810	1,809
Kentucky	263	257	2.4%	52	52	3	4	0	0	207	200
Mississippi	858	879	-2.3%	0	0	6	6	0	0	852	873
Tennessee	552	550	0.3%	0	0	48	48	0	0	503	502
West South Central	3,695	3,551	4.1%	0	0	547	491	22	22	3,126	3,038
Arkansas	892	858	4.0%	0	0	67	65	3	4	822	790
Louisiana	1,632	1,630	0.1%	0	0	49	48	0	0	1,583	1,582
Oklahoma	203	149	36.2%	0	0	9	9	0	0	193	140
Texas	968	914	6.0%	0	0	423	370	19	18	527	526
Mountain	638	635	0.3%	6	7	381	399	13	13	237	216
Arizona	122	139	-12.3%	0	0	122	139	0	0	0	0
Colorado	95	99	-3.8%	0	0	95	99	0	0	0	0
Idaho	319	296	7.8%	6	7	82	78	6	6	225	205
Montana	12	12	0.9%	0	0	0	0	0	0	12	12
Nevada	35	35	-1.2%	0	0	35	35	0	0	0	0
New Mexico	10	10	-7.5%	0	0	10	10	0	0	0	0
Utah	45	44	2.2%	0	0	37	37	8	7	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,158	5,198	-0.8%	361	431	2,794	2,820	470	501	1,533	1,446
California	3,384	3,438	-1.6%	61	81	2,475	2,516	441	472	406	369
Oregon	618	594	4.0%	37	36	247	238	19	19	315	301
Washington	1,156	1,165	-0.8%	263	314	71	66	10	10	812	775
Pacific Noncontiguous	167	161	4.0%	28	31	0	0	139	129	NM	NM
Alaska	27	23	17.7%	0	0	0	0	27	23	NM	NM
Hawaii	140	138	1.8%	28	31	0	0	113	107	0	0
U.S. Total	37,243	37,153	0.2%	2,938	2,753	15,727	16,062	1,408	1,452	17,170	16,886

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	348	329	5.7%	23	22	325	307	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	6	6	1.4%	0	0	6	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	301	284	6.2%	0	0	301	284	0	0	0	0
New Mexico	1	1	17.3%	0	0	1	1	0	0	0	0
Utah	40	39	2.7%	23	22	17	16	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,027	1,017	1.0%	69	68	957	949	0	0	0	0
California	1,010	1,001	0.9%	69	68	941	934	0	0	0	0
Oregon	16	16	3.7%	0	0	16	16	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	21	1.9%	0	0	22	21	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	21	1.9%	0	0	22	21	0	0	0	0
U.S. Total	1,397	1,368	2.1%	92	90	1,304	1,278	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 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	2,382	2,250	5.8%	154	154	2,227	2,096	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	39	39	0.3%	0	0	39	39	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,067	1,935	6.8%	0	0	2,067	1,935	0	0	0	0
New Mexico	7	9	-16.2%	0	0	7	9	0	0	0	0
Utah	268	267	0.2%	154	154	113	113	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,886	6,909	-0.3%	452	458	6,434	6,451	0	0	0	0
California	6,776	6,798	-0.3%	452	457	6,324	6,341	0	0	0	0
Oregon	110	111	-1.3%	0	2	110	110	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	146	146	0.3%	0	0	146	146	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	146	146	0.3%	0	0	146	146	0	0	0	0
U.S. Total	9,414	9,306	1.2%	606	612	8,808	8,693	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	506	391	29.7%	180	140	327	250	8	8	170	131	NM	NM	NM	NM	174	134	13	12	0	0	13	12	140	104
Connecticut	70	53	32.5%	12	6	58	47	0	0	12	5	NM	17	NM	0	21	17	NM	2	NM	0	3	2	34	28
Maine	NM	5	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	4	3
Massachusetts	371	288	29.0%	146	118	225	170	NM	NM	142	114	NM	NM	NM	NM	136	106	9	9	0	0	9	9	80	56
New Hampshire	12	10	25.0%	0	0	12	10	0	0	0	0	4	3	0	0	4	3	1	1	0	0	1	1	8	6
Rhode Island	14	8	73.8%	4	NM	10	6	0	0	4	NM	5	3	0	0	5	3	0	0	0	0	0	0	5	3
Vermont	32	27	18.4%	16	14	15	13	6	6	11	8	6	4	0	0	6	4	NM	NM	0	0	NM	NM	10	8
Middle Atlantic	653	528	23.7%	210	167	443	361	11	11	174	133	217	182	22	21	195	162	NM	NM	NM	NM	22	19	227	181
New Jersey	367	315	16.5%	148	132	219	183	11	11	116	101	127	115	20	19	107	96	NM	NM	NM	NM	14	11	98	77
New York	227	162	40.5%	50	24	177	137	0	0	50	24	NM	NM	NM	NM	71	50	2	1	0	0	2	1	104	85
Pennsylvania	59	51	15.7%	11	11	48	41	0	0	9	8	NM	NM	NM	NM	17	15	NM	NM	NM	NM	6	6	25	19
East North Central	149	118	26.6%	93	76	56	42	31	27	61	48	NM	NM	NM	NM	34	26	3	2	0	0	3	2	19	14
Illinois	17	13	32.2%	7	6	10	7	0	0	6	6	NM	4	NM	0	7	4	0	NM	0	0	0	NM	4	2
Indiana	54	42	26.3%	43	39	11	4	16	13	27	26	7	2	0	0	7	2	0	0	0	0	0	0	3	2
Michigan	31	23	36.3%	21	13	10	10	13	13	8	0	5	6	0	0	5	6	NM	0	0	0	NM	0	5	4
Ohio	34	29	15.3%	17	14	17	15	NM	NM	15	12	NM	NM	NM	NM	12	11	NM	1	0	0	NM	1	4	3
Wisconsin	14	10	31.2%	5	4	9	6	0	0	5	4	NM	2	NM	0	3	2	2	1	0	0	2	1	4	3
West North Central	231	145	59.7%	181	103	51	41	NM	NM	178	101	26	21	0	0	25	21	2	1	0	0	2	1	23	19
Iowa	NM	11	NM	NM	NM	14	10	NM	NM	NM	0	9	6	0	0	9	6	1	0	0	0	1	0	5	4
Kansas	NM	2	NM	NM	NM	3	2	NM	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	171	100	70.4%	161	93	10	7	NM	NM	160	93	3	3	0	0	3	3	1	1	0	0	1	1	5	4
Missouri	36	28	27.7%	13	7	23	22	1	1	12	6	12	12	0	0	11	11	0	0	0	0	0	0	12	10
Nebraska	5	3	64.3%	4	NM	1	1	0	0	4	NM	NM	0	0	0	NM	0	NM	0	0	0	NM	0	1	0
North Dakota	0	0	0.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,643	1,176	39.8%	1,404	986	239	190	276	145	1,112	826	84	73	16	15	68	58	NM	25	NM	0	29	25	142	107
Delaware	19	17	13.9%	7	7	12	10	NM	NM	6	6	NM	NM	NM	NM	3	3	1	1	0	0	1	1	8	7
District of Columbia	8	5	39.7%	0	0	8	5	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	3	2
Florida	254	97	161.7%	214	70	39	27	173	53	41	17	NM	NM	NM	NM	10	9	NM	1	NM	0	1	1	28	18
Georgia	NM	246	NM	232	224	NM	22	33	28	198	195	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	2
Maryland	149	118	26.5%	51	35	98	83	NM	NM	49	33	NM	NM	NM	NM	25	22	4	3	0	0	4	3	69	57
North Carolina	764	624	22.3%	743	605	21	20	46	46	683	546	25	25	14	13	11	12	1	1	0	0	1	1	9	7
South Carolina	86	25	249.8%	61	10	25	15	0	0	61	10	6	3	0	0	6	3	2	2	0	0	2	2	16	10
Virginia	105	43	145.7%	96	36	9	7	22	17	73	20	3	2	0	0	3	2	0	0	0	0	0	0	6	4
West Virginia	1	1	20.8%	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	118	67	74.9%	103	54	15	14	10	6	91	47	NM	NM	NM	NM	10	10	NM	0	NM	0	NM	0	5	4
Alabama	NM	23	NM	42	22	NM	NM	4	4	38	18	1	1	0	0	1	1	0	0	0	0	0	0	NM	NM
Kentucky	9	5	97.8%	6	2	3	3	6	2	NM	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Mississippi	35	15	131.1%	34	14	1	1	0	0	34	14	NM	1	0	0	NM	1	NM	NM	0	0	NM	NM	0	0
Tennessee	30	24	21.0%	20	16	9	9	0	0	19	15	NM	NM	NM	NM	7	6	NM	0	NM	0	NM	0	2	2
West South Central	530	342	55.1%	406	246	124	96	8	6	397	240	35	24	0	0	34	24	NM	0	0	0	NM	0	90	72
Arkansas	24	4	443.2%	22	3	2	1	NM	NM	22	3	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Louisiana	NM	20	NM	NM	0	23	20	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	21	19
Oklahoma	8	5	50.4%	7	5	1	1	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Texas	475	312	52.5%	377	238	99	74	NM	NM	376	237	32	23	0	0	32	23	NM	0	0	0	NM	0	67	51
Mountain	1,789	1,541	16.1%	1,386	1,226	403	314	116	89	1,258	1,126	123	99	12	11	111	88	21	16	0	0	20	16	272	211
Arizona	674	563	19.8%	451	396	223	167	85	60	364	334	NM	NM	NM	NM	62	42	16	12	0	0	16	12	146	113
Colorado	169	150	13.0%	109	96	60	54	NM	NM	106	94	NM	NM	NM	NM	21	21	0	0	0	0	0	0	38	32
Idaho	67	66	2.3%	63	64	4	2	0	0	63	64	1	0	0	0	1	0	0	0	0	0	0	0	3	1
Montana	NM	4	NM	NM	NM	2	2	0	0	NM	NM	NM	1	0	0	NM	1	0	0	0	0	0	0	2	1
Nevada	474	393	20.6%	425	352	49	41	4	4	413	340	18	17	8	7	10	10	4	3	0	0	3	2	35	29
New Mexico	153	132	15.4%	128	114	24	18	26	25	102	89	8	7	0	0	8	7	0	0	0	0	0	0	16	12
Utah	246	234	5.3%	205	203	41	31	0	0	205	203	8	6	0	0	8	6	1	1	0	0	1	1	32	23
Wyoming	NM	1	NM	0	0	NM	1	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	1	0
Pacific Contiguous	3,928	3,350	17.3%	2,506	2,174	1,421	1,175	60	59	2,424	2,097	367	274	17	14	350	261	205	194	5	4	200	190	871	725
California	3,813	3,287	16.0%	2,439	2,151	1,374	1,136	59	59	2,358	2,074	352	261	17	14	336	248	203	192	5	4	198	188	840	700
Oregon	95	47	100.9%	67	23	27	24	NM	NM	67	22	11	11	0	0	11	11	2	2	0	0	2	2	14	12
Washington	20	16	29.3%	0	0	20	16	0	0	0	0	3	3	0	0	3	3	NM	0	0	0	NM	0	17	13
Pacific Noncontiguous	120	114	4.9%	21	20	99	94	3	4	17	16	39	35	0	0	39	35	0	0	0	0	0	0	59	59
Alaska	0	0	52.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	120	114	4.8%	21	20	99	94	3	4	17	16	39	35	0	0	39	35	0	0	0	0	0	0	59	59
U.S. Total	9,668	7,771	24.4%	6,489	5,193	3,179	2,578	527	357	5,882	4,766	1,112	881	70	63	1,041	818	299	272	10	7	290	264	1,848	1,495

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

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	2,750	2,066	33.1%	1,026	723	1,724	1,343	49	47	972	672	930	737	5	4	925	733	79	64	NM	0	78	64	720	545
Connecticut	374	281	33.2%	68	33	305	248	2	2	65	31	119	94	NM	0	118	94	16	13	NM	0	16	13	172	141
Maine	42	30	38.2%	8	6	34	24	0	0	8	6	12	9	0	0	12	9	0	0	0	0	0	0	22	16
Massachusetts	2,010	1,515	32.7%	831	597	1,179	918	13	12	813	581	722	580	4	4	717	576	57	47	1	0	56	47	405	295
New Hampshire	67	53	26.9%	0	0	67	53	0	0	0	0	19	16	0	0	19	16	4	3	0	0	4	3	43	34
Rhode Island	79	43	85.4%	24	11	54	31	0	0	24	11	28	15	0	0	28	15	0	0	0	0	0	0	26	16
Vermont	179	145	23.2%	95	77	83	68	34	33	61	44	30	24	0	0	30	24	1	1	0	0	1	1	52	43
Middle Atlantic	3,500	2,823	24.0%	1,106	864	2,394	1,959	64	56	906	689	1,197	996	123	107	1,075	889	140	121	14	12	126	109	1,193	961
New Jersey	2,035	1,703	19.5%	825	686	1,210	1,017	64	56	642	525	723	641	112	99	611	542	87	68	7	6	80	62	519	413
New York	1,147	845	35.7%	218	124	928	720	0	0	214	121	378	264	4	4	374	260	11	8	0	0	11	8	544	451
Pennsylvania	318	275	15.6%	63	54	256	222	0	0	49	43	96	92	7	NM	90	87	42	44	7	6	36	38	130	96
East North Central	804	595	35.2%	505	377	299	218	174	119	324	255	188	136	6	NM	183	135	17	13	1	1	15	12	101	71
Illinois	91	65	39.7%	38	33	54	33	1	1	34	32	38	20	NM	0	35	20	0	0	0	0	0	0	19	12
Indiana	306	230	33.4%	251	212	56	18	96	73	155	139	36	8	0	0	36	8	2	1	0	0	2	1	18	9
Michigan	142	92	55.1%	92	39	50	53	70	39	22	0	26	33	0	0	26	33	1	1	0	0	1	1	24	19
Ohio	189	158	19.4%	95	77	93	81	7	6	85	68	70	63	NM	NM	68	61	6	5	1	1	4	4	21	16
Wisconsin	75	50	50.9%	30	17	45	33	0	0	29	17	18	12	NM	0	17	12	8	7	0	0	8	7	20	14
West North Central	1,236	674	83.3%	957	450	279	225	16	8	940	441	141	117	1	1	140	116	11	6	0	0	11	6	128	103
Iowa	85	56	50.3%	11	NM	74	53	9	NM	NM	0	47	33	0	0	47	33	3	2	0	0	3	2	24	18
Kansas	20	11	75.8%	5	2	15	10	NM	0	4	2	6	3	0	0	6	3	0	0	0	0	0	0	9	7
Minnesota	909	435	108.9%	861	401	49	34	NM	NM	857	398	17	14	0	0	17	14	6	3	0	0	6	3	25	18
Missouri	199	156	27.8%	64	32	136	124	3	1	60	30	69	66	1	1	68	65	1	1	0	0	1	1	67	58
Nebraska	21	13	54.1%	15	10	5	3	0	0	15	10	2	1	0	0	2	1	0	0	0	0	0	0	3	2
North Dakota	0	0	0.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	2	3.0%	NM	NM	1	1	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	9,699	6,540	48.3%	8,326	5,461	1,373	1,079	1,739	850	6,489	4,525	494	435	95	86	399	350	183	146	NM	0	180	146	794	583
Delaware	105	91	16.1%	40	35	65	56	5	NM	33	29	21	18	NM	NM	20	17	3	3	0	0	3	3	43	36
District of Columbia	42	31	37.6%	0	0	42	31	0	0	0	0	25	17	0	0	25	17	0	0	0	0	0	0	17	14
Florida	1,611	605	166.2%	1,367	436	244	169	1,108	370	253	64	68	59	NM	NM	65	57	9	5	NM	0	6	5	173	107
Georgia	1,546	1,448	6.8%	1,384	1,315	163	133	194	171	1,187	1,142	22	20	NM	NM	20	18	132	105	0	0	132	105	11	9
Maryland	805	647	24.5%	271	199	533	448	7	6	259	189	149	131	5	NM	143	127	22	21	0	0	22	21	369	300
North Carolina	4,465	3,368	32.6%	4,341	3,244	125	125	264	216	3,994	2,952	153	157	83	76	70	80	4	4	0	0	4	4	51	40
South Carolina	506	113	349.2%	364	37	142	75	0	0	364	37	36	18	0	0	36	18	12	7	0	0	12	7	93	50
Virginia	612	234	161.6%	559	196	53	38	162	83	397	112	18	14	0	0	18	14	1	0	0	0	1	0	33	24
West Virginia	6	5	22.2%	0	0	6	5	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	3
East South Central	686	312	119.7%	598	233	88	79	58	23	533	207	63	59	NM	NM	59	55	7	1	NM	0	3	1	27	23
Alabama	243	120	101.8%	237	116	6	5	25	12	212	104	4	3	0	0	4	3	0	0	0	0	0	0	2	1
Kentucky	52	26	99.8%	34	11	19	15	32	11	NM	0	11	10	0	0	11	10	0	0	0	0	0	0	7	6
Mississippi	217	27	708.1%	208	21	9	6	0	0	208	21	4	4	0	0	4	4	2	0	0	0	2	0	3	2
Tennessee	174	139	25.3%	120	86	55	53	0	0	112	82	43	42	NM	NM	39	39	4	0	NM	0	0	0	15	14
West South Central	2,842	1,778	59.8%	2,135	1,251	707	528	47	25	2,087	1,225	190	132	1	1	189	131	1	0	0	0	1	0	518	397
Arkansas	136	24	462.8%	125	18	11	6	NM	NM	124	17	4	2	0	0	4	2	1	0	0	0	1	0	6	4
Louisiana	140	126	11.2%	NM	0	138	126	NM	0	0	0	8	5	0	0	8	5	0	0	0	0	0	0	130	121
Oklahoma	46	24	88.7%	40	21	6	3	40	21	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
Texas	2,520	1,604	57.1%	1,968	1,212	552	393	NM	NM	1,963	1,208	176	124	1	1	174	123	0	0	0	0	0	0	377	270
Mountain	10,683	9,232	15.7%	8,331	7,312	2,352	1,920	692	539	7,567	6,708	703	615	70	63	633	552	108	106	2	2	106	105	1,613	1,263
Arizona	4,011	3,494	14.8%	2,721	2,438	1,290	1,056	503	363	2,204	2,063	344	293	14	13	330	280	80	83	0	0	80	83	879	693
Colorado	1,012	878	15.3%	653	561	358	317	NM	NM	637	549	145	137	12	11	133	126	2	2	0	0	2	2	224	189
Idaho	362	300	20.6%	344	291	18	9	0	0	344	291	3	2	0	0	3	2	0	0	0	0	0	0	14	6
Montana	35	17	113.5%	24	8	11	9	0	0	24	8	3	2	0	0	3	2	0	0	0	0	0	0	8	6
Nevada	2,865	2,380	20.4%	2,577	2,132	288	248	26	26	2,506	2,065	106	99	44	39	62	60	20	16	2	2	18	15	207	174
New Mexico	923	790	16.9%	769	673	154	117	160	149	610	523	54	44	0	0	54	44	1	1	0	0	1	1	99	72
Utah	1,472	1,371	7.3%	1,242	1,209	230	162	0	0	1,242	1,209	47	36	0	0	47	36	5	5	0	0	5	5	178	122
Wyoming	4	3	40.2%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Pacific Contiguous	22,912	19,001	20.6%	14,935	12,587	7,977	6,414	363	315	14,449	12,181	2,016	1,474	96	78	1,920	1,397	1,194	1,054	28	13	1,166	1,041	4,890	3,976
California	22,349	18,685	19.6%	14,592	12,453	7,757	6,232	358	311	14,111	12,052	1,948	1,413	96	78	1,852	1,336	1,185	1,045	28	13	1,157	1,032	4,748	3,864
Oregon	470	244	92.8%	342	133	127	110	4	NM	338	129	53	49	0	0	53	49	9	9	0	0	9	9	65	52
Washington	93	72	29.3%	0	0	93	72	0	0	0	0	15	12	0	0	15	12	0	0	0	0	0	0	78	60
Pacific Noncontiguous	743	691	7.6%	126	111	617	580	21	26	105	85	241	213	0	0	241	213	2	2	0	0	2	2	375	365
Alaska	2	1	46.5%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Hawaii	741	689	7.5%	126	111	615	579	21	26	105	85	240	213	0	0	240	213	2	2	0	0	2	2	373	365
U.S. Total	55,855	43,713	27.8%	38,046	29,368	17,809	14,345	3,223	2,008	34,371	26,987	6,163	4,916	401	345	5,763	4,571	1,740	1,513	51	27	1,688	1,486	10,358	8,288

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

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	6	1	755.9%	6	1	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6	1	755.9%	6	1	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	124	44	183.7%	0	0	124	44	0	0	0	0
Arizona	87	23	273.0%	0	0	87	23	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	36	20	80.3%	0	0	36	20	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	251	267	-6.1%	0	0	251	267	0	0	0	0
California	251	267	-6.1%	0	0	251	267	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	380	311	22.1%	6	1	374	311	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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 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	56	3	NM	56	3	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	56	3	NM	56	3	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	655	539	21.6%	0	0	655	539	0	0	0	0
Arizona	489	452	8.2%	0	0	489	452	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	166	87	90.7%	0	0	166	87	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	1,528	1,469	4.0%	0	0	1,528	1,469	0	0	0	0
California	1,528	1,469	4.0%	0	0	1,528	1,469	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	2,239	2,011	11.4%	56	3	2,183	2,008	0	0	0	0

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

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
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	663,479	485,100	175,500	96	2,783
Year 2016					
January	61,983	45,395	16,319	12	258
February	50,516	37,538	12,717	13	248
March	39,864	30,983	8,616	13	252
April	39,065	28,614	10,238	7	206
May	45,032	33,712	11,064	6	249
June	63,186	46,191	16,721	7	266
July	74,132	53,946	19,894	7	285
August	73,798	53,681	19,827	8	282
Sept	62,335	44,665	17,407	8	254
October	54,537	39,319	14,974	8	237
November	48,076	35,090	12,758	10	218
December	64,847	47,058	17,512	12	266
Year 2017					
January	63,394	46,763	16,354	12	265
February	47,878	35,521	12,112	10	235
March	48,700	35,717	12,738	9	235
April	44,216	31,501	12,507	5	202
May	50,843	37,410	13,209	6	219
June	58,884	43,796	14,854	7	226
July	69,775	52,038	17,494	8	234
August	65,801	49,033	16,527	8	233
Sept	54,702	39,435	15,035	8	225
October	50,129	36,279	13,610	7	233
November	50,864	35,840	14,788	7	229
December	58,292	41,767	16,270	10	246
Year 2018					
January	64,556	47,762	16,510	12	272
February	45,738	33,993	11,488	8	249
March	44,444	32,318	11,869	7	250
April	40,607	30,411	9,973	6	217
May	47,563	35,313	12,010	6	235
June	56,087	42,523	13,335	6	223
July	63,859	48,345	15,271	7	236
Year to Date					
2016	373,778	276,380	95,570	65	1,764
2017	383,691	282,747	99,270	56	1,617
2018	362,854	270,665	90,455	52	1,682
Rolling 12 Months Ending in July					
2017	687,284	502,560	181,747	102	2,874
2018	642,642	473,018	166,684	92	2,847

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
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	15,302	2,800	1,350	511	10,641
Year 2016					
January	1,624	288	133	63	1,140
February	1,503	277	130	62	1,034
March	1,433	232	117	61	1,023
April	1,215	204	103	39	870
May	1,264	215	90	31	929
June	1,353	241	97	39	976
July	1,472	278	118	39	1,036
August	1,434	270	112	42	1,010
Sept	1,257	216	97	41	903
October	1,260	224	105	42	889
November	1,256	233	99	50	875
December	1,515	301	136	63	1,015
Year 2017					
January	1,510	290	140	55	1,025
February	1,228	208	124	44	852
March	1,357	225	146	49	937
April	1,216	212	103	35	866
May	1,221	206	101	34	880
June	1,208	219	82	39	868
July	1,225	264	104	45	813
August	1,247	264	110	40	832
Sept	1,155	216	94	39	805
October	1,278	225	101	36	916
November	1,320	262	102	42	913
December	1,339	209	143	52	935
Year 2018					
January	1,432	234	144	57	997
February	1,270	212	131	45	883
March	1,271	204	105	43	919
April	1,132	183	85	39	826
May	1,135	171	95	34	834
June	1,101	192	94	35	780
July	1,100	198	90	40	772
Year to Date					
2016	9,865	1,736	787	334	7,008
2017	8,964	1,624	799	301	6,240
2018	8,442	1,394	744	293	6,011
Rolling 12 Months Ending in July					
2017	15,686	2,868	1,348	539	10,932
2018	14,779	2,569	1,295	502	10,413

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
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	678,780	487,900	176,849	607	13,424
Year 2016					
January	63,607	45,683	16,452	75	1,397
February	52,019	37,815	12,846	75	1,282
March	41,297	31,215	8,733	74	1,275
April	40,280	28,818	10,341	46	1,076
May	46,297	33,928	11,154	37	1,178
June	64,539	46,432	16,818	46	1,243
July	75,604	54,224	20,012	46	1,321
August	75,232	53,951	19,938	49	1,292
Sept	63,592	44,881	17,504	50	1,157
October	55,798	39,543	15,079	50	1,126
November	49,331	35,322	12,857	60	1,093
December	66,362	47,359	17,648	75	1,280
Year 2017					
January	64,904	47,054	16,494	66	1,290
February	49,106	35,729	12,235	54	1,087
March	50,057	35,942	12,884	58	1,172
April	45,432	31,713	12,611	40	1,068
May	52,064	37,616	13,310	40	1,098
June	60,092	44,015	14,937	46	1,094
July	71,001	52,302	17,598	53	1,047
August	67,048	49,297	16,637	49	1,065
Sept	55,857	39,651	15,129	47	1,030
October	51,406	36,504	13,711	43	1,149
November	52,184	36,102	14,890	50	1,142
December	59,631	41,975	16,413	62	1,181
Year 2018					
January	65,989	47,996	16,654	69	1,270
February	47,008	34,205	11,618	53	1,132
March	45,715	32,522	11,973	51	1,169
April	41,740	30,593	10,058	45	1,043
May	48,699	35,485	12,105	40	1,069
June	57,187	42,715	13,429	41	1,003
July	64,958	48,543	15,361	46	1,008
Year to Date					
2016	383,643	278,116	96,357	399	8,772
2017	392,655	284,372	100,069	358	7,857
2018	371,296	272,059	91,199	345	7,693
Rolling 12 Months Ending in July					
2017	702,970	505,428	183,095	641	13,806
2018	657,421	475,587	167,979	595	13,260

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
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	21,935	15,722	5,553	193	467
Year 2016					
January	2,472	1,727	685	12	48
February	2,230	1,474	698	12	46
March	1,495	1,096	355	4	40
April	1,421	1,055	320	8	38
May	1,662	1,212	386	8	56
June	1,693	1,275	364	7	48
July	2,287	1,711	514	11	52
August	2,231	1,644	537	10	39
Sept	1,620	1,128	441	7	44
October	1,629	1,156	423	7	43
November	1,672	1,249	372	11	40
December	1,995	1,410	530	12	43
Year 2017					
January	1,977	1,459	453	20	45
February	1,569	1,157	362	13	38
March	1,673	1,342	278	16	37
April	1,519	1,188	285	10	36
May	1,752	1,306	394	16	37
June	1,739	1,290	397	14	38
July	1,853	1,296	505	17	35
August	1,723	1,275	392	20	37
Sept	1,723	1,253	417	15	38
October	1,730	1,331	346	14	39
November	1,617	1,184	379	15	39
December	3,058	1,642	1,346	22	47
Year 2018					
January	8,977	4,320	4,531	58	NM
February	1,377	1,100	218	15	44
March	1,414	1,066	294	13	41
April	1,518	1,128	337	16	36
May	1,780	1,302	418	19	41
June	1,826	1,349	418	19	40
July	1,690	1,171	435	28	56
Year to Date					
2016	13,259	9,549	3,322	61	327
2017	12,083	9,037	2,674	106	266
2018	18,583	11,436	6,652	169	326
Rolling 12 Months Ending in July					
2017	21,229	15,625	4,976	153	476
2018	28,435	18,121	9,532	256	NM

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
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	1,964	72	238	289	1,365
Year 2016					
January	231	12	24	43	153
February	316	17	39	27	233
March	178	3	28	7	140
April	174	3	16	17	138
May	198	3	18	14	163
June	181	6	13	14	149
July	185	2	12	28	142
August	153	3	15	18	117
Sept	143	3	14	9	117
October	174	3	18	9	144
November	167	4	14	35	113
December	178	9	33	26	110
Year 2017					
January	207	12	39	39	117
February	136	8	19	28	81
March	138	4	10	30	94
April	137	3	11	16	107
May	157	3	14	19	120
June	148	5	15	15	113
July	125	3	14	17	90
August	138	3	12	19	103
Sept	120	4	14	15	87
October	145	4	18	17	106
November	177	4	21	23	129
December	336	18	51	50	216
Year 2018					
January	644	49	120	139	NM
February	148	5	11	29	103
March	162	4	14	25	119
April	140	4	13	22	102
May	154	3	19	20	112
June	202	5	15	19	163
July	170	3	12	34	121
Year to Date					
2016	1,463	46	150	149	1,118
2017	1,047	38	122	164	723
2018	1,620	71	205	288	1,055
Rolling 12 Months Ending in July					
2017	1,862	60	217	260	1,324
2018	2,537	105	322	413	NM

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
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	23,899	15,794	5,791	482	1,831
Year 2016					
January	2,702	1,739	709	55	200
February	2,546	1,491	737	38	279
March	1,673	1,099	383	12	180
April	1,594	1,058	337	24	175
May	1,860	1,216	403	22	219
June	1,875	1,281	377	21	197
July	2,472	1,713	527	38	194
August	2,384	1,647	552	28	156
Sept	1,763	1,131	455	16	161
October	1,803	1,159	441	16	187
November	1,838	1,254	386	46	153
December	2,173	1,419	563	37	154
Year 2017					
January	2,184	1,471	492	59	162
February	1,705	1,164	381	41	119
March	1,811	1,346	288	46	132
April	1,656	1,190	296	26	143
May	1,910	1,309	408	35	157
June	1,886	1,295	412	29	151
July	1,978	1,299	519	34	125
August	1,861	1,279	404	39	140
Sept	1,843	1,257	431	30	126
October	1,875	1,335	364	31	145
November	1,795	1,188	400	38	167
December	3,395	1,660	1,398	73	264
Year 2018					
January	9,621	4,369	4,651	197	NM
February	1,525	1,104	229	44	148
March	1,576	1,069	309	38	160
April	1,658	1,132	350	38	138
May	1,934	1,305	437	39	153
June	2,028	1,353	434	39	203
July	1,860	1,174	447	62	176
Year to Date					
2016	14,722	9,595	3,472	210	1,444
2017	13,130	9,075	2,795	270	989
2018	20,203	11,507	6,857	457	1,381
Rolling 12 Months Ending in July					
2017	23,090	15,685	5,192	413	1,800
2018	30,972	18,226	9,853	669	NM

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
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	3,349	2,731	415	3	200
Year 2016					
January	342	302	16	0	23
February	330	271	39	0	19
March	362	283	63	0	17
April	382	325	43	0	14
May	370	296	52	0	23
June	380	308	52	0	21
July	400	324	56	0	20
August	419	337	61	0	21
Sept	376	311	49	0	16
October	250	171	61	0	18
November	307	239	46	0	21
December	336	260	55	0	20
Year 2017					
January	355	301	40	0	13
February	263	217	32	0	13
March	273	214	40	0	18
April	153	110	29	0	13
May	320	264	38	0	18
June	341	282	40	0	19
July	332	271	39	0	23
August	282	226	38	0	19
Sept	262	209	37	0	16
October	221	171	35	0	15
November	267	234	13	0	19
December	280	231	35	0	14
Year 2018					
January	344	296	36	0	11
February	272	234	29	0	9
March	226	198	15	0	13
April	224	193	14	0	16
May	176	140	24	0	13
June	310	269	22	0	19
July	339	284	38	0	17
Year to Date					
2016	2,566	2,109	320	1	137
2017	2,037	1,660	258	1	118
2018	1,891	1,614	178	1	98
Rolling 12 Months Ending in July					
2017	3,724	2,978	530	2	214
2018	3,203	2,686	335	2	180

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	897	0	119	9	769
2009	1,007	0	126	8	873
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	917	11	115	15	776
Year 2016					
January	86	1	11	2	73
February	95	0	10	2	83
March	85	0	11	2	72
April	73	1	7	0	66
May	96	0	7	0	89
June	100	0	9	0	91
July	101	1	9	1	91
August	101	1	10	0	91
Sept	75	1	10	0	64
October	92	1	11	0	80
November	99	0	10	0	89
December	95	1	10	2	83
Year 2017					
January	74	0	10	2	62
February	63	0	10	1	51
March	85	1	10	2	72
April	70	0	10	1	59
May	76	1	10	1	65
June	92	1	9	1	81
July	79	1	10	0	68
August	84	2	9	2	71
Sept	74	1	9	2	62
October	82	1	9	1	70
November	71	1	9	1	60
December	68	1	10	2	55
Year 2018					
January	69	1	9	2	56
February	61	1	8	2	51
March	57	1	9	1	46
April	72	1	10	1	61
May	60	1	6	0	53
June	61	1	1	0	58
July	65	1	9	0	55
Year to Date					
2016	636	3	63	7	563
2017	537	4	69	7	458
2018	445	8	52	5	380
Rolling 12 Months Ending in July					
2017	1,000	7	119	9	865
2018	825	14	98	13	699

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
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	4,266	2,742	530	17	976
Year 2016					
January	427	302	27	3	96
February	425	272	49	2	102
March	447	283	74	2	89
April	455	326	50	0	80
May	466	296	58	0	112
June	480	308	60	0	111
July	502	325	65	1	111
August	520	337	71	0	112
Sept	451	311	59	0	80
October	342	172	72	0	99
November	406	240	56	0	110
December	431	261	65	2	103
Year 2017					
January	428	301	50	2	75
February	325	218	42	1	65
March	358	215	50	2	90
April	222	110	39	1	72
May	396	265	48	1	83
June	433	283	49	1	100
July	412	272	49	0	91
August	367	228	47	2	89
Sept	337	211	46	2	78
October	302	172	44	2	85
November	338	235	22	1	79
December	348	233	44	2	69
Year 2018					
January	412	297	46	2	67
February	334	235	37	2	60
March	284	199	24	2	59
April	296	195	24	1	76
May	236	141	29	0	66
June	371	270	24	0	77
July	404	285	47	0	72
Year to Date					
2016	3,202	2,112	382	8	700
2017	2,574	1,664	327	8	575
2018	2,336	1,622	230	6	478
Rolling 12 Months Ending in July					
2017	4,723	2,985	649	10	1,079
2018	4,028	2,700	434	16	879

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
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	9,440,777	4,752,790	4,118,433	44,765	524,788
Year 2016					
January	786,040	390,246	347,970	3,499	44,325
February	702,082	352,877	304,311	3,344	41,550
March	758,344	377,953	333,147	3,493	43,751
April	734,600	362,063	327,542	3,278	41,717
May	819,345	407,178	365,297	3,620	43,251
June	985,722	497,616	439,024	4,109	44,973
July	1,157,589	569,028	535,036	5,188	48,337
August	1,168,337	564,916	549,161	5,384	48,875
Sept	932,041	451,574	431,159	4,223	45,086
October	760,610	368,087	345,831	3,675	43,017
November	679,004	333,973	298,069	2,944	44,018
December	686,396	343,384	294,829	3,547	44,637
Year 2017					
January	663,708	329,690	283,243	3,857	46,918
February	573,451	283,558	245,447	3,445	41,001
March	693,489	349,742	296,454	3,831	43,463
April	640,489	326,706	268,102	3,158	42,523
May	723,289	374,999	302,060	3,443	42,787
June	870,696	438,191	384,666	3,771	44,068
July	1,091,770	554,104	486,788	4,170	46,707
August	1,049,281	530,700	469,818	4,173	44,590
Sept	876,462	440,975	390,611	3,897	40,978
October	793,981	397,778	351,044	3,715	41,445
November	679,061	337,407	294,822	3,524	43,308
December	785,101	388,941	345,378	3,781	47,000
Year 2018					
January	811,671	420,768	340,304	3,811	46,789
February	683,640	340,742	297,957	3,553	41,388
March	755,250	374,127	335,455	3,732	41,937
April	724,622	362,210	315,874	3,508	43,029
May	867,336	447,654	372,167	3,769	43,746
June	971,688	511,615	411,425	4,079	44,571
July	1,244,684	634,830	557,784	4,728	47,341
Year to Date					
2016	5,943,722	2,956,961	2,652,326	26,531	307,904
2017	5,256,892	2,656,989	2,266,760	25,675	307,468
2018	6,058,891	3,091,946	2,630,966	27,179	308,800
Rolling 12 Months Ending in July					
2017	9,483,279	4,718,922	4,185,808	45,447	533,101
2018	10,242,777	5,187,747	4,482,640	46,270	526,121

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

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
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	1,156,214	42,382	336,461	75,988	701,383
Year 2016					
January	102,014	3,434	32,304	7,160	59,117
February	92,405	3,264	29,348	6,354	53,439
March	95,161	3,002	30,664	6,298	55,197
April	88,634	2,286	27,002	6,104	53,241
May	92,471	2,888	29,069	6,096	54,418
June	96,618	3,649	30,019	6,907	56,043
July	102,867	3,805	32,099	8,142	58,821
August	105,025	3,723	33,436	8,377	59,489
Sept	95,330	2,973	29,581	6,850	55,926
October	92,360	2,740	27,138	6,125	56,357
November	90,321	2,812	27,191	5,773	54,544
December	98,660	3,520	29,054	6,758	59,328
Year 2017					
January	101,763	3,768	30,660	7,653	59,682
February	91,904	3,190	26,545	6,508	55,660
March	98,721	3,441	29,333	6,528	59,418
April	90,079	3,049	26,033	5,446	55,552
May	90,682	2,960	26,132	5,562	56,028
June	93,506	3,422	27,809	6,089	56,187
July	100,187	4,092	29,292	6,547	60,257
August	97,901	3,982	29,182	6,392	58,346
Sept	93,871	3,664	26,818	5,998	57,391
October	95,459	3,602	27,375	6,139	58,343
November	95,225	3,299	27,285	6,155	58,485
December	106,914	3,913	29,997	6,971	66,034
Year 2018					
January	107,009	3,626	30,197	7,559	65,626
February	95,990	3,327	28,006	6,727	57,930
March	101,580	3,407	29,538	6,587	62,047
April	95,206	3,041	26,992	6,163	59,010
May	94,606	3,170	27,574	5,695	58,167
June	97,289	3,557	28,122	5,998	59,612
July	105,784	4,269	31,832	7,344	62,340
Year to Date					
2016	670,169	22,327	210,504	47,060	390,277
2017	666,844	23,922	195,804	44,333	402,785
2018	697,464	24,398	202,261	46,073	424,732
Rolling 12 Months Ending in July					
2017	1,148,541	39,691	342,204	78,215	688,430
2018	1,186,834	42,858	342,919	77,728	723,330

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, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
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	10,596,991	4,795,172	4,454,894	120,753	1,226,171
Year 2016					
January	888,054	393,680	380,273	10,658	103,442
February	794,487	356,141	333,659	9,697	94,990
March	853,505	380,955	363,811	9,791	98,949
April	823,234	364,349	354,544	9,383	94,958
May	911,816	410,066	394,365	9,716	97,669
June	1,082,340	501,265	469,043	11,016	101,016
July	1,260,455	572,833	567,135	13,330	107,158
August	1,273,362	568,640	582,596	13,761	108,365
Sept	1,027,371	454,547	460,740	11,073	101,012
October	852,970	370,827	372,969	9,800	99,374
November	769,325	336,785	325,260	8,716	98,563
December	785,056	346,904	323,883	10,305	103,965
Year 2017					
January	765,471	333,459	313,903	11,509	106,600
February	665,355	286,748	271,992	9,953	96,662
March	792,211	353,183	325,787	10,359	102,882
April	730,568	329,755	294,135	8,603	98,075
May	813,971	377,959	328,192	9,005	98,815
June	964,202	441,612	412,475	9,860	100,255
July	1,191,957	558,196	516,079	10,718	106,964
August	1,147,182	534,682	499,000	10,564	102,936
Sept	970,332	444,639	417,429	9,895	98,369
October	889,440	401,379	378,419	9,854	99,788
November	774,286	340,707	322,107	9,680	101,792
December	892,015	392,854	375,375	10,752	113,034
Year 2018					
January	918,680	424,394	370,502	11,369	112,415
February	779,630	344,070	325,963	10,280	99,318
March	856,830	377,534	364,993	10,319	103,983
April	819,828	365,251	342,866	9,671	102,039
May	961,943	450,825	399,741	9,464	101,913
June	1,068,977	515,171	439,546	10,077	104,183
July	1,350,468	639,099	589,616	12,072	109,681
Year to Date					
2016	6,613,891	2,979,288	2,862,831	73,591	698,181
2017	5,923,735	2,680,912	2,462,563	70,008	710,253
2018	6,756,355	3,116,344	2,833,227	73,252	733,532
Rolling 12 Months Ending in July					
2017	10,631,819	4,758,614	4,528,012	123,663	1,221,531
2018	11,429,611	5,230,605	4,825,558	123,998	1,249,450

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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
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	267,266	25,169	219,253	18,957	3,888
Year 2016					
January	22,612	2,036	18,360	1,865	351
February	21,859	2,088	17,744	1,705	323
March	23,337	2,187	19,021	1,786	343
April	22,556	2,080	18,805	1,340	331
May	23,744	2,120	19,554	1,717	354
June	22,668	1,896	18,683	1,768	320
July	23,052	1,950	19,047	1,734	321
August	23,038	2,011	18,978	1,726	324
Sept	21,757	2,010	17,792	1,678	278
October	20,377	1,922	16,583	1,610	263
November	24,047	1,941	20,036	1,762	307
December	24,510	2,041	20,392	1,753	324
Year 2017					
January	23,634	2,207	19,369	1,687	371
February	21,208	2,062	17,332	1,463	351
March	23,157	2,249	18,842	1,672	394
April	21,387	2,091	17,433	1,516	348
May	21,919	2,234	17,939	1,460	286
June	21,978	1,939	18,174	1,547	318
July	22,785	1,979	18,962	1,583	261
August	22,973	2,081	18,999	1,598	296
Sept	21,810	1,990	17,980	1,560	280
October	21,579	2,019	17,839	1,410	311
November	21,839	2,108	17,726	1,671	333
December	22,997	2,209	18,658	1,791	339
Year 2018					
January	23,115	2,263	18,857	1,672	324
February	21,740	2,089	17,786	1,536	329
March	23,194	2,250	18,874	1,723	348
April	22,126	2,055	18,108	1,629	334
May	21,747	1,885	18,086	1,494	282
June	21,556	1,633	18,109	1,553	262
July	21,085	1,510	17,775	1,543	258
Year to Date					
2016	159,828	14,356	131,213	11,916	2,343
2017	156,069	14,761	128,051	10,928	2,328
2018	154,564	13,685	127,594	11,149	2,136
Rolling 12 Months Ending in July					
2017	269,798	24,685	221,831	19,457	3,824
2018	265,762	24,092	218,795	19,179	3,696

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 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,025	0	454	433	138
2009	793	0	545	176	72
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	4,870	6	2,836	1,099	928
Year 2016					
January	352	0	202	84	66
February	340	0	189	86	65
March	358	0	196	86	75
April	355	0	201	88	66
May	356	0	194	90	72
June	344	0	193	85	66
July	335	0	181	87	66
August	332	0	181	82	68
Sept	327	0	187	81	59
October	301	0	157	87	56
November	378	0	227	86	66
December	387	0	230	91	65
Year 2017					
January	461	0	292	94	75
February	437	0	274	92	70
March	482	1	313	92	76
April	409	0	222	107	80
May	292	0	133	85	73
June	378	1	190	89	98
July	365	1	209	85	71
August	409	1	214	98	96
Sept	360	1	179	98	82
October	396	1	249	93	54
November	428	0	278	85	65
December	452	0	282	81	89
Year 2018					
January	465	1	330	65	69
February	412	0	285	58	69
March	474	0	311	84	78
April	432	1	259	85	88
May	323	1	179	71	72
June	279	1	172	46	62
July	292	0	161	76	56
Year to Date					
2016	2,439	2	1,357	606	474
2017	2,824	4	1,635	644	542
2018	2,678	3	1,695	484	495
Rolling 12 Months Ending in July					
2017	4,548	5	2,617	1,071	855
2018	4,723	6	2,897	940	881

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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Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-July 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
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	272,136	25,175	222,089	20,056	4,816
Year 2016					
January	22,964	2,036	18,562	1,949	417
February	22,200	2,088	17,933	1,791	388
March	23,694	2,187	19,217	1,873	417
April	22,911	2,081	19,005	1,428	397
May	24,100	2,120	19,748	1,807	425
June	23,012	1,896	18,876	1,853	386
July	23,387	1,950	19,229	1,822	386
August	23,370	2,011	19,159	1,808	392
Sept	22,084	2,010	17,978	1,759	337
October	20,678	1,922	16,740	1,697	319
November	24,425	1,941	20,263	1,848	373
December	24,897	2,042	20,622	1,845	388
Year 2017					
January	24,095	2,207	19,662	1,781	445
February	21,645	2,062	17,607	1,555	422
March	23,639	2,250	19,155	1,764	470
April	21,796	2,091	17,655	1,623	428
May	22,211	2,235	18,072	1,546	359
June	22,356	1,940	18,364	1,636	415
July	23,150	1,980	19,172	1,667	332
August	23,382	2,082	19,213	1,696	392
Sept	22,170	1,991	18,159	1,658	362
October	21,975	2,020	18,088	1,503	365
November	22,267	2,109	18,004	1,756	398
December	23,449	2,209	18,940	1,872	428
Year 2018					
January	23,580	2,264	19,187	1,737	393
February	22,153	2,090	18,071	1,594	399
March	23,668	2,250	19,185	1,807	426
April	22,558	2,056	18,366	1,714	422
May	22,070	1,886	18,264	1,565	355
June	21,836	1,633	18,280	1,599	324
July	21,377	1,510	17,936	1,618	314
Year to Date					
2016	162,267	14,358	132,570	12,522	2,817
2017	158,893	14,765	129,686	11,572	2,870
2018	157,242	13,688	129,289	11,634	2,631
Rolling 12 Months Ending in July					
2017	274,346	24,690	224,448	20,528	4,680
2018	270,485	24,098	221,692	20,118	4,577

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
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	16,081	422	13,203	2,448	8
Year 2016					
January	1,398	34	1,161	202	1
February	1,283	27	1,081	174	1
March	1,344	41	1,091	211	1
April	1,413	40	1,153	219	1
May	1,463	44	1,205	214	1
June	1,468	40	1,202	225	1
July	1,486	37	1,212	236	1
August	1,509	42	1,233	233	1
Sept	1,397	43	1,142	210	1
October	1,378	37	1,127	213	1
November	1,379	39	1,127	212	1
December	1,476	38	1,220	218	0
Year 2017					
January	1,412	35	1,179	198	0
February	1,223	19	1,020	185	0
March	1,308	36	1,075	197	0
April	1,270	35	1,033	201	0
May	1,386	36	1,130	219	1
June	1,399	38	1,160	199	1
July	1,416	41	1,156	218	1
August	1,428	47	1,166	215	1
Sept	1,299	41	1,057	200	1
October	1,296	33	1,051	210	1
November	1,289	30	1,059	200	1
December	1,356	32	1,117	206	1
Year 2018					
January	1,350	28	1,132	190	0
February	1,278	26	1,076	175	1
March	1,377	40	1,138	198	1
April	1,342	38	1,109	194	1
May	1,398	43	1,143	212	1
June	1,454	42	1,202	208	1
July	1,458	48	1,208	200	1
Year to Date					
2016	9,855	264	8,104	1,480	6
2017	9,414	239	7,754	1,417	4
2018	9,656	264	8,009	1,377	6
Rolling 12 Months Ending in July					
2017	16,553	439	13,602	2,504	8
2018	16,324	447	13,458	2,408	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, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
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	1,984	0	814	962	208
Year 2016					
January	191	0	80	92	18
February	189	0	87	88	14
March	219	0	96	104	19
April	181	0	65	98	18
May	182	0	70	96	17
June	172	0	73	81	18
July	186	0	74	96	16
August	191	0	71	96	23
Sept	176	0	64	95	18
October	179	0	65	95	19
November	180	0	68	94	17
December	185	0	71	98	16
Year 2017					
January	191	0	72	99	20
February	160	0	64	84	12
March	176	0	75	82	19
April	161	0	69	74	18
May	171	0	69	84	18
June	172	0	68	88	16
July	173	0	72	84	17
August	183	0	77	84	22
Sept	143	0	63	63	17
October	143	0	59	66	18
November	155	0	64	76	15
December	157	0	63	77	17
Year 2018					
January	170	0	64	90	17
February	151	0	60	80	12
March	155	0	64	79	12
April	147	0	54	77	16
May	161	0	59	86	16
June	163	0	65	80	18
July	164	0	65	83	17
Year to Date					
2016	1,321	0	546	656	119
2017	1,203	0	488	595	120
2018	1,112	0	430	575	107
Rolling 12 Months Ending in July					
2017	2,114	0	827	1,074	213
2018	1,893	0	757	941	196

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-July 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
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	18,065	422	14,017	3,410	216
Year 2016					
January	1,589	34	1,241	295	19
February	1,472	27	1,167	262	15
March	1,563	41	1,188	315	19
April	1,594	40	1,218	317	18
May	1,646	44	1,274	310	18
June	1,640	40	1,275	305	19
July	1,673	37	1,286	332	17
August	1,700	42	1,304	330	25
Sept	1,573	43	1,206	305	19
October	1,557	37	1,192	308	20
November	1,559	39	1,195	306	18
December	1,661	38	1,291	316	16
Year 2017					
January	1,604	35	1,251	298	20
February	1,383	19	1,084	269	12
March	1,483	36	1,150	279	19
April	1,431	35	1,102	276	18
May	1,556	36	1,198	303	19
June	1,570	38	1,228	287	17
July	1,589	41	1,228	302	18
August	1,612	47	1,243	299	23
Sept	1,441	41	1,120	262	18
October	1,439	33	1,110	276	19
November	1,444	30	1,123	276	15
December	1,513	32	1,180	283	18
Year 2018					
January	1,521	28	1,196	279	17
February	1,429	26	1,136	255	13
March	1,532	40	1,202	277	13
April	1,489	38	1,163	271	17
May	1,559	43	1,202	297	17
June	1,617	42	1,267	289	19
July	1,622	48	1,273	283	18
Year to Date					
2016	11,176	264	8,651	2,136	126
2017	10,617	239	8,241	2,013	123
2018	10,768	264	8,439	1,952	113
Rolling 12 Months Ending in July					
2017	18,667	439	14,429	3,577	222
2018	18,217	447	14,215	3,348	206

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, 2008-July 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
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	380,237	43,952	165,861	460	169,964
Year 2016					
January	31,835	4,082	13,250	40	14,463
February	30,721	3,797	13,249	41	13,634
March	30,380	3,388	13,073	23	13,897
April	25,323	2,547	10,177	31	12,569
May	26,827	2,497	10,522	14	13,794
June	29,961	3,835	11,762	59	14,305
July	32,167	4,067	13,230	51	14,818
August	33,526	4,113	14,559	72	14,782
Sept	30,502	3,489	13,145	51	13,817
October	27,598	2,574	11,139	29	13,857
November	29,176	2,597	12,211	20	14,349
December	31,967	4,051	13,200	42	14,674
Year 2017					
January	31,706	3,909	13,533	56	14,208
February	29,797	3,477	12,653	50	13,617
March	32,848	4,094	14,372	26	14,356
April	29,061	3,047	12,331	34	13,650
May	30,151	3,584	12,937	43	13,587
June	31,698	3,694	13,829	38	14,138
July	34,231	3,839	15,149	41	15,202
August	34,458	3,818	15,424	41	15,175
Sept	29,493	3,091	13,170	15	13,216
October	32,025	3,893	14,392	33	13,707
November	31,331	3,512	13,877	41	13,901
December	33,438	3,995	14,193	43	15,207
Year 2018					
January	33,483	4,263	14,402	63	14,755
February	29,907	3,562	12,743	42	13,560
March	31,280	4,481	12,293	36	14,470
April	27,083	2,605	10,829	16	13,633
May	31,698	3,786	12,893	32	14,988
June	31,962	4,483	13,132	53	14,294
July	32,719	4,626	13,145	59	14,890
Year to Date					
2016	207,213	24,212	85,263	258	97,481
2017	219,493	25,643	94,804	287	98,758
2018	218,133	27,806	89,437	301	100,589
Rolling 12 Months Ending in July					
2017	372,262	42,468	159,057	501	170,236
2018	378,877	46,115	160,493	474	171,795

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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Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2008-July 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
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	978,290	11,830	25,325	4,522	936,612
Year 2016					
January	84,483	1,087	2,270	460	80,665
February	79,157	1,150	2,299	415	75,293
March	79,225	1,084	1,926	288	75,928
April	74,954	732	1,780	353	72,089
May	78,419	949	1,753	280	75,437
June	79,180	707	1,832	415	76,225
July	80,796	943	1,826	384	77,644
August	81,164	931	1,794	442	77,998
Sept	75,314	513	1,918	395	72,488
October	76,347	508	1,450	347	74,041
November	80,391	1,132	1,898	340	77,021
December	100,410	1,214	2,159	401	96,636
Year 2017					
January	85,579	1,076	2,005	525	81,973
February	79,087	985	1,792	430	75,881
March	81,473	1,068	2,428	299	77,678
April	77,440	879	2,063	295	74,203
May	78,630	887	2,209	301	75,234
June	80,934	1,051	2,297	322	77,264
July	83,942	1,105	2,079	355	80,403
August	85,888	1,140	2,000	365	82,383
Sept	77,237	979	1,998	233	74,027
October	79,472	933	2,035	402	76,102
November	81,151	782	2,106	473	77,790
December	87,457	946	2,314	524	83,673
Year 2018					
January	83,887	872	2,159	454	80,402
February	78,816	777	2,229	474	75,336
March	81,307	979	2,139	493	77,696
April	80,524	884	1,924	339	77,377
May	80,630	948	1,846	319	77,516
June	80,910	970	1,873	402	77,666
July	84,631	928	2,149	382	81,172
Year to Date					
2016	556,214	6,652	13,686	2,595	533,281
2017	567,084	7,051	14,872	2,526	542,635
2018	570,705	6,358	14,318	2,863	547,167
Rolling 12 Months Ending in July					
2017	980,712	11,349	24,091	4,452	940,820
2018	981,911	11,137	24,771	4,859	941,144

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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Table 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-July 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,262,675	29,150	148,198	1,410	1,083,917
2009	1,136,729	29,565	150,481	1,408	955,276
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	1,358,526	55,782	191,186	4,982	1,106,576
Year 2016					
January	116,318	5,169	15,520	500	95,128
February	109,878	4,947	15,548	456	88,928
March	109,606	4,471	14,999	311	89,825
April	100,276	3,279	11,956	384	84,657
May	105,246	3,446	12,275	294	89,231
June	109,140	4,542	13,594	474	90,530
July	112,964	5,010	15,056	435	92,462
August	114,690	5,044	16,353	514	92,780
Sept	105,816	4,002	15,063	446	86,306
October	103,946	3,083	12,589	376	87,898
November	109,567	3,729	14,108	360	91,370
December	132,377	5,265	15,360	443	111,310
Year 2017					
January	117,285	4,985	15,538	581	96,181
February	108,885	4,462	14,445	480	89,497
March	114,321	5,162	16,800	325	92,034
April	106,501	3,926	14,394	328	87,853
May	108,781	4,471	15,145	344	88,820
June	112,633	4,745	16,127	360	91,401
July	118,173	4,944	17,228	395	95,606
August	120,346	4,957	17,424	406	97,558
Sept	106,730	4,070	15,167	249	87,244
October	111,497	4,826	16,427	435	89,810
November	112,482	4,294	15,983	514	91,691
December	120,895	4,941	16,507	566	98,880
Year 2018					
January	117,370	5,135	16,561	517	95,158
February	108,724	4,339	14,972	516	88,896
March	112,587	5,460	14,432	528	92,166
April	107,607	3,488	12,753	356	91,010
May	112,327	4,734	14,739	351	92,504
June	112,872	5,453	15,005	455	91,959
July	117,351	5,554	15,293	441	96,062
Year to Date					
2016	763,427	30,864	98,949	2,853	630,761
2017	786,577	32,694	109,677	2,813	641,393
2018	788,838	34,164	103,755	3,164	647,756
Rolling 12 Months Ending in July					
2017	1,352,974	53,817	183,149	4,953	1,111,056
2018	1,360,787	57,252	185,264	5,333	1,112,939

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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Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, July 2018 and July 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	30	19	55.0%	17	11	13	8	0	0	NM	NM
Connecticut	12	7	66.0%	0	0	12	7	0	0	0	0
Maine	NM	1	NM	0	0	1	1	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	17	11	53.0%	17	11	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	2,364	2,419	-2.3%	0	0	2,357	2,408	0	0	7	11
New Jersey	43	48	-11.0%	0	0	43	48	0	0	0	0
New York	49	22	123.0%	0	0	49	18	0	0	0	4
Pennsylvania	2,272	2,348	-3.3%	0	0	2,265	2,342	0	0	7	7
East North Central	13,832	14,659	-5.6%	8,228	9,225	5,541	5,371	2	2	62	60
Illinois	3,622	3,545	2.2%	210	202	3,364	3,296	1	1	46	45
Indiana	3,483	3,763	-7.5%	3,284	3,633	198	129	1	1	0	0
Michigan	2,633	2,452	7.4%	2,613	2,431	18	20	0	0	NM	1
Ohio	2,241	2,667	-16.0%	280	740	1,960	1,927	0	0	NM	0
Wisconsin	1,854	2,232	-17.0%	1,841	2,219	0	0	0	0	13	13
West North Central	12,000	12,152	-1.3%	11,891	12,056	0	0	1	2	108	95
Iowa	1,633	1,719	-5.0%	1,583	1,670	0	0	1	2	48	47
Kansas	1,541	1,599	-3.6%	1,541	1,599	0	0	0	0	0	0
Minnesota	1,278	1,328	-3.8%	1,254	1,314	0	0	0	0	24	14
Missouri	3,799	3,900	-2.6%	3,799	3,900	0	0	0	0	0	0
Nebraska	1,456	1,419	2.6%	1,425	1,389	0	0	0	0	31	30
North Dakota	2,137	2,059	3.8%	2,133	2,056	0	0	0	0	4	3
South Dakota	157	128	23.0%	157	128	0	0	0	0	0	0
South Atlantic	8,587	10,741	-20.0%	7,633	9,483	932	1,239	1	1	21	18
Delaware	41	55	-26.0%	0	0	41	55	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,261	1,758	-28.0%	1,260	1,744	0	12	0	0	1	3
Georgia	1,670	1,890	-12.0%	1,668	1,887	0	0	0	0	NM	3
Maryland	342	593	-42.0%	0	0	341	591	0	0	1	2
North Carolina	1,190	1,935	-39.0%	1,185	1,929	NM	NM	1	1	2	2
South Carolina	811	857	-5.4%	811	857	0	0	0	0	0	NM
Virginia	520	681	-24.0%	482	647	22	26	0	0	15	8
West Virginia	2,753	2,972	-7.4%	2,227	2,421	525	551	0	0	0	0
East South Central	6,254	6,764	-7.5%	5,923	6,483	318	267	0	0	13	14
Alabama	1,781	1,860	-4.3%	1,779	1,859	0	0	0	0	1	1
Kentucky	2,784	2,803	-0.7%	2,784	2,803	0	0	0	0	0	0
Mississippi	483	418	16.0%	165	151	318	267	0	0	0	0
Tennessee	1,206	1,683	-28.0%	1,194	1,670	0	0	0	0	12	13
West South Central	11,668	13,226	-12.0%	6,704	6,453	4,953	6,759	0	0	10	14
Arkansas	1,834	1,641	12.0%	1,583	1,438	251	202	0	0	1	1
Louisiana	1,070	939	14.0%	694	660	376	278	0	0	0	0
Oklahoma	1,203	1,106	8.8%	1,079	980	115	112	0	0	10	14
Texas	7,561	9,539	-21.0%	3,348	3,374	4,213	6,166	0	0	0	0
Mountain	8,376	9,204	-9.0%	7,752	8,146	615	1,041	0	0	10	17
Arizona	1,766	1,784	-1.0%	1,766	1,784	0	0	0	0	0	0
Colorado	1,515	1,632	-7.1%	1,515	1,632	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	490	929	-47.0%	26	25	464	904	0	0	0	0
Nevada	201	178	13.0%	131	125	70	53	0	0	0	0
New Mexico	822	973	-15.0%	822	973	0	0	0	0	0	0
Utah	1,256	1,240	1.3%	1,220	1,194	37	38	0	0	0	8
Wyoming	2,324	2,468	-5.8%	2,270	2,414	44	45	0	0	9	8
Pacific Contiguous	642	483	33.0%	179	161	458	317	0	0	5	5
California	5	5	2.2%	0	0	0	0	0	0	5	5
Oregon	179	161	11.0%	179	161	0	0	0	0	0	0
Washington	458	317	44.0%	0	0	458	317	0	0	0	1
Pacific Noncontiguous	105	108	-2.6%	NM	NM	84	85	3	3	0	0
Alaska	37	NM	NM	NM	NM	16	13	3	3	0	0
Hawaii	68	72	-5.5%	0	0	68	72	0	0	0	0
U.S. Total	63,859	69,775	-8.5%	48,345	52,038	15,271	17,494	7	8	236	234

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through July 2018 and July 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	389	714	-45.0%	222	76	166	636	0	0	2	NM
Connecticut	158	70	127.0%	0	0	158	70	0	0	0	0
Maine	9	9	-0.3%	0	0	7	7	0	0	2	NM
Massachusetts	0	559	-100.0%	0	0	0	559	0	0	0	0
New Hampshire	222	76	192.0%	222	76	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	14,568	14,206	2.5%	0	0	14,515	14,110	0	0	53	95
New Jersey	302	298	1.5%	0	0	302	298	0	0	0	0
New York	213	210	1.5%	0	0	210	159	0	0	4	51
Pennsylvania	14,052	13,697	2.6%	0	0	14,003	13,653	0	0	49	45
East North Central	84,011	84,249	-0.3%	51,254	51,665	32,296	32,159	12	10	450	415
Illinois	21,210	19,999	6.1%	1,284	1,306	19,603	18,379	6	6	317	308
Indiana	22,446	20,363	10.0%	21,343	19,689	1,098	671	6	3	0	0
Michigan	14,348	14,856	-3.4%	14,189	14,715	130	132	0	0	29	9
Ohio	14,679	17,267	-15.0%	3,213	4,289	11,465	12,977	0	0	1	1
Wisconsin	11,327	11,763	-3.7%	11,225	11,667	0	0	0	0	102	96
West North Central	68,503	66,760	2.6%	67,762	66,065	0	0	12	18	729	676
Iowa	8,833	8,575	3.0%	8,518	8,274	0	0	10	13	305	287
Kansas	7,493	7,096	5.6%	7,493	7,096	0	0	0	0	0	0
Minnesota	7,649	7,469	2.4%	7,471	7,306	0	0	0	1	178	162
Missouri	21,978	23,310	-5.7%	21,977	23,306	0	0	1	4	0	0
Nebraska	8,435	7,369	14.0%	8,211	7,161	0	0	0	0	223	208
North Dakota	13,140	12,187	7.8%	13,117	12,168	0	0	0	0	23	19
South Dakota	974	753	29.0%	974	753	0	0	0	0	0	0
South Atlantic	50,254	55,038	-8.7%	43,328	49,520	6,751	5,393	7	8	168	117
Delaware	115	101	15.0%	0	0	115	101	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,485	10,314	-27.0%	7,470	10,286	3	12	0	0	12	16
Georgia	9,009	9,847	-8.5%	8,989	9,828	0	0	0	0	20	19
Maryland	3,002	1,988	51.0%	0	0	2,992	1,977	0	0	10	11
North Carolina	7,766	8,163	-4.9%	7,725	8,113	19	23	6	7	17	20
South Carolina	4,613	4,652	-0.8%	4,611	4,649	0	0	0	0	2	3
Virginia	2,965	3,406	-13.0%	2,689	3,233	169	123	1	2	106	48
West Virginia	15,298	16,567	-7.7%	11,845	13,411	3,453	3,156	0	0	0	0
East South Central	35,278	36,923	-4.5%	33,385	35,189	1,797	1,641	0	0	97	94
Alabama	10,083	9,698	4.0%	10,072	9,690	0	0	0	0	11	8
Kentucky	15,915	16,573	-4.0%	15,915	16,573	0	0	0	0	0	0
Mississippi	2,592	2,412	7.5%	796	771	1,797	1,641	0	0	0	0
Tennessee	6,688	8,241	-19.0%	6,602	8,155	0	0	0	0	86	86
West South Central	61,300	72,393	-15.0%	33,227	33,870	27,990	38,418	0	0	83	104
Arkansas	9,184	8,500	8.0%	7,614	7,682	1,565	813	0	0	5	5
Louisiana	4,578	5,210	-12.0%	2,864	3,256	1,714	1,954	0	0	0	0
Oklahoma	5,745	6,117	-6.1%	5,092	5,473	576	544	0	0	77	99
Texas	41,793	52,566	-20.0%	17,658	17,458	24,136	35,107	0	0	0	0
Mountain	46,632	51,372	-9.2%	41,157	45,747	5,411	5,548	0	0	64	76
Arizona	9,443	9,370	0.8%	9,443	9,370	0	0	0	0	0	0
Colorado	8,464	9,764	-13.0%	8,462	9,762	0	0	0	0	2	1
Idaho	4	3	6.9%	0	0	0	0	0	0	4	3
Montana	4,683	4,841	-3.3%	119	161	4,564	4,678	0	0	1	1
Nevada	576	662	-13.0%	264	334	312	328	0	0	0	0
New Mexico	3,561	6,237	-43.0%	3,561	6,237	0	0	0	0	0	0
Utah	6,503	6,659	-2.3%	6,265	6,404	239	236	0	0	0	19
Wyoming	13,398	13,836	-3.2%	13,044	13,478	297	307	0	0	58	52
Pacific Contiguous	1,251	1,395	-10.0%	197	495	1,016	862	0	0	37	37
California	34	33	3.7%	0	0	0	0	0	0	34	33
Oregon	197	495	-60.0%	197	495	0	0	0	0	0	0
Washington	1,019	867	18.0%	0	0	1,016	862	0	0	3	4
Pacific Noncontiguous	668	643	3.9%	133	119	513	503	22	20	0	0
Alaska	248	220	13.0%	133	119	93	80	22	20	0	0
Hawaii	421	423	-0.7%	0	0	421	423	0	0	0	0
U.S. Total	362,854	383,691	-5.4%	270,665	282,747	90,455	99,270	52	56	1,682	1,617

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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, July 2018 and July 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	59	93	-37.0%	15	3	41	88	2	2	1	1
Connecticut	11	65	-83.0%	NM	1	10	64	NM	NM	0	0
Maine	16	14	17.0%	0	0	15	13	0	0	1	1
Massachusetts	19	11	66.0%	3	NM	14	NM	NM	1	0	0
New Hampshire	11	2	566.0%	10	1	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	120	269	-55.0%	23	132	90	131	NM	3	5	3
New Jersey	NM	11	NM	NM	NM	NM	11	0	0	0	0
New York	72	211	-66.0%	23	132	46	77	NM	NM	3	2
Pennsylvania	45	47	-5.3%	0	0	41	44	1	2	NM	NM
East North Central	81	77	5.6%	54	48	25	27	1	1	1	1
Illinois	7	6	24.0%	NM	2	6	4	NM	NM	0	0
Indiana	20	13	50.0%	19	12	0	0	0	0	1	1
Michigan	27	19	43.0%	26	18	0	0	0	1	NM	0
Ohio	22	33	-33.0%	NM	10	19	23	0	0	0	0
Wisconsin	NM	6	NM	5	6	0	0	0	0	NM	NM
West North Central	44	32	38.0%	42	31	NM	NM	0	0	0	0
Iowa	NM	11	NM	NM	10	NM	0	0	0	0	0
Kansas	10	3	230.0%	10	3	0	0	0	0	0	0
Minnesota	NM	7	NM	NM	6	NM	NM	0	0	0	0
Missouri	10	6	69.0%	10	6	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	2	76.0%	4	2	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	NM	0	0
South Atlantic	157	202	-22.0%	91	141	41	46	21	11	NM	4
Delaware	6	6	-2.0%	0	0	6	6	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	52	NM	32	50	NM	1	0	0	NM	NM
Georgia	NM	17	NM	5	14	NM	NM	0	NM	NM	NM
Maryland	27	30	-11.0%	1	1	26	29	0	1	0	0
North Carolina	22	20	8.5%	21	19	NM	NM	0	0	NM	NM
South Carolina	8	16	-51.0%	7	15	0	0	0	0	0	1
Virginia	39	45	-14.0%	NM	27	6	8	21	10	NM	NM
West Virginia	15	15	-2.7%	14	15	0	0	0	0	0	0
East South Central	49	49	-1.2%	47	48	NM	NM	0	0	NM	NM
Alabama	NM	NM	NM	11	4	NM	NM	0	0	NM	NM
Kentucky	13	15	-12.0%	13	15	0	0	0	0	0	0
Mississippi	2	2	15.0%	2	2	0	0	0	0	0	0
Tennessee	21	27	-24.0%	20	27	0	0	0	0	0	0
West South Central	22	21	7.3%	NM	10	11	9	0	0	1	1
Arkansas	3	7	-60.0%	2	1	0	5	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	4	2	113.0%	4	2	0	0	0	0	0	0
Texas	14	11	30.0%	NM	6	10	4	0	0	0	0
Mountain	32	33	-2.5%	23	29	8	4	0	0	0	0
Arizona	6	11	-45.0%	6	11	0	0	0	0	0	0
Colorado	2	2	29.0%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	3	179.0%	NM	NM	8	3	0	0	0	0
Nevada	3	3	-19.0%	2	3	0	1	0	0	0	0
New Mexico	6	7	-12.0%	6	7	0	0	0	0	0	0
Utah	2	4	-36.0%	2	4	0	0	0	0	0	0
Wyoming	5	3	41.0%	5	3	0	0	0	0	0	0
Pacific Contiguous	46	17	169.0%	9	9	13	7	0	NM	23	NM
California	35	6	465.0%	6	6	7	0	0	0	22	0
Oregon	3	3	-20.0%	3	3	0	0	0	0	0	0
Washington	NM	7	NM	NM	NM	7	7	0	NM	NM	NM
Pacific Noncontiguous	1,080	1,060	1.9%	856	846	204	191	1	1	19	23
Alaska	111	134	-17.0%	107	128	0	0	NM	NM	4	6
Hawaii	969	926	4.6%	749	718	204	191	1	1	15	16
U.S. Total	1,690	1,853	-8.8%	1,171	1,296	435	505	28	17	56	35

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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 July 2018 and July 2017 (Thousand Barrels)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	1,707	436	292.0%	280	55	1,386	351	31	26	10	5
Connecticut	397	125	217.0%	NM	6	387	118	NM	NM	1	0
Maine	283	70	304.0%	0	0	271	62	3	4	9	4
Massachusetts	672	182	268.0%	88	10	569	161	NM	11	1	1
New Hampshire	264	36	629.0%	174	27	80	NM	10	8	0	0
Rhode Island	NM	15	NM	0	5	NM	NM	1	2	0	0
Vermont	NM	6	NM	NM	6	0	0	0	0	0	0
Middle Atlantic	3,729	881	323.0%	1,167	319	2,501	510	NM	15	NM	38
New Jersey	365	50	627.0%	3	NM	358	50	4	0	1	0
New York	2,482	543	357.0%	1,161	318	1,285	193	NM	NM	NM	24
Pennsylvania	882	288	207.0%	2	0	858	267	8	7	NM	13
East North Central	737	547	35.0%	411	347	308	188	NM	4	13	8
Illinois	73	60	22.0%	NM	9	59	50	NM	NM	0	0
Indiana	134	121	11.0%	123	115	1	0	0	0	10	6
Michigan	167	106	57.0%	163	103	0	0	4	3	1	1
Ohio	325	221	48.0%	77	82	247	137	1	0	2	1
Wisconsin	38	39	-2.4%	35	38	2	0	0	0	NM	NM
West North Central	437	335	30.0%	400	328	NM	NM	1	1	1	1
Iowa	106	97	8.5%	104	96	1	1	0	0	0	0
Kansas	NM	61	NM	NM	61	0	0	0	0	0	0
Minnesota	NM	43	NM	34	37	NM	NM	1	1	1	1
Missouri	124	62	100.0%	124	62	NM	NM	0	0	0	0
Nebraska	12	10	16.0%	12	10	0	0	0	0	0	0
North Dakota	36	48	-24.0%	36	48	0	0	0	0	0	0
South Dakota	9	13	-33.0%	9	13	0	0	NM	NM	0	0
South Atlantic	4,103	1,826	125.0%	2,793	1,436	1,158	301	96	51	56	37
Delaware	224	38	488.0%	12	0	212	38	0	0	0	0
District of Columbia	NM	0	--	0	0	0	0	NM	0	0	0
Florida	636	575	11.0%	594	558	NM	7	0	0	18	11
Georgia	NM	122	NM	NM	92	NM	NM	6	2	16	10
Maryland	472	129	265.0%	7	2	461	124	1	1	2	1
North Carolina	743	228	226.0%	694	209	NM	14	0	0	NM	5
South Carolina	NM	100	NM	NM	92	43	2	0	0	7	6
Virginia	1,238	507	144.0%	915	356	229	99	89	48	NM	4
West Virginia	186	127	46.0%	166	126	19	0	0	0	0	0
East South Central	373	297	26.0%	300	283	58	5	0	0	15	9
Alabama	127	42	201.0%	NM	30	58	5	0	0	NM	7
Kentucky	102	112	-9.7%	102	112	0	0	0	0	0	0
Mississippi	NM	15	NM	NM	14	0	0	0	0	2	1
Tennessee	123	127	-3.5%	121	126	0	0	0	0	1	1
West South Central	NM	168	NM	NM	83	NM	82	1	1	5	3
Arkansas	NM	58	NM	NM	20	5	36	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	19	16	17.0%	18	16	0	0	0	0	1	1
Texas	NM	86	NM	NM	39	NM	45	1	1	2	1
Mountain	215	262	-18.0%	188	234	27	28	0	0	0	0
Arizona	59	66	-9.8%	59	66	0	0	0	0	0	0
Colorado	17	12	50.0%	17	12	0	0	0	0	0	0
Idaho	0	0	65.0%	0	0	0	0	0	0	0	0
Montana	23	23	0.9%	NM	NM	23	22	0	0	0	0
Nevada	11	12	-11.0%	8	7	3	5	0	0	0	0
New Mexico	23	53	-56.0%	23	53	0	0	0	0	0	0
Utah	36	43	-15.0%	35	41	1	1	0	0	0	0
Wyoming	45	54	-18.0%	45	54	0	0	0	0	0	0
Pacific Contiguous	105	84	25.0%	41	49	23	20	0	1	41	15
California	86	52	63.0%	36	36	13	6	0	0	36	9
Oregon	4	9	-56.0%	4	9	0	0	0	0	0	0
Washington	16	23	-31.0%	NM	4	9	14	0	0	6	5
Pacific Noncontiguous	6,995	7,247	-3.5%	5,725	5,903	1,113	1,183	8	9	148	152
Alaska	810	958	-15.0%	770	914	0	0	3	4	37	41
Hawaii	6,185	6,289	-1.7%	4,955	4,990	1,113	1,183	5	5	111	111
U.S. Total	18,583	12,083	54.0%	11,436	9,037	6,652	2,674	169	106	326	266

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, July 2018 and July 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	1	1	37.0%	0	0	0	0	0	0	1	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	82	78	4.8%	52	45	23	25	0	0	7	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	53	47	12.0%	47	40	0	0	0	0	NM	8
Ohio	23	25	-7.6%	0	0	23	25	0	0	0	0
Wisconsin	5	5	-3.5%	5	5	0	0	0	0	0	0
West North Central	0	0	-100.0%	0	0	0	0	0	0	0	0
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	79	36	116.0%	76	32	0	0	0	0	NM	NM
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	76	32	135.0%	76	32	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	12	-100.0%	0	12	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	12	-100.0%	0	12	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	162	190	-15.0%	156	181	0	0	0	0	6	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	158	185	-15.0%	156	181	0	0	0	0	1	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	5	-23.0%	0	0	0	0	0	0	4	5
Mountain	15	14	6.9%	0	0	15	14	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	14	6.9%	0	0	15	14	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	339	332	2.0%	284	271	38	39	0	0	17	23

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

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through July 2018 and July 2017 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 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	10	11	-8.3%	0	0	0	0	0	0	10	11
New Jersey	3	4	-13.0%	0	0	0	0	0	0	3	4
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	6	7	-5.4%	0	0	0	0	0	0	6	7
East North Central	469	485	-3.3%	348	281	98	168	0	0	24	37
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	345	300	15.0%	322	263	0	0	0	0	23	37
Ohio	99	168	-41.0%	0	0	98	168	0	0	1	0
Wisconsin	26	18	45.0%	26	18	0	0	0	0	0	0
West North Central	6	4	39.0%	0	0	0	0	1	1	5	3
Iowa	6	4	39.0%	0	0	0	0	1	1	5	3
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	354	189	88.0%	335	173	0	0	0	0	19	16
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	335	173	94.0%	335	173	0	0	0	0	0	0
Georgia	19	16	19.0%	0	0	0	0	0	0	19	16
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	166	-100.0%	0	166	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	166	-100.0%	0	166	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	971	1,091	-11.0%	931	1,040	0	0	0	0	40	50
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	947	1,063	-11.0%	931	1,040	0	0	0	0	16	23
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24	28	-14.0%	0	0	0	0	0	0	24	28
Mountain	81	90	-11.0%	0	0	81	90	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	81	90	-11.0%	0	0	81	90	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,891	2,037	-7.1%	1,614	1,660	178	258	1	1	98	118

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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.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, July 2018 and July 2017 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	43,394	37,941	14.0%	595	NM	41,756	36,525	474	475	569	542
Connecticut	14,455	11,202	29.0%	34	30	13,948	10,715	195	199	278	258
Maine	2,372	2,342	1.3%	0	0	2,180	NM	13	16	179	151
Massachusetts	17,180	16,947	1.4%	NM	NM	16,440	16,233	236	230	95	117
New Hampshire	4,206	2,942	43.0%	150	1	4,037	2,922	2	2	17	16
Rhode Island	5,178	4,508	15.0%	0	0	5,152	4,480	27	28	0	0
Vermont	3	1	394.0%	2	0	0	0	1	0	0	0
Middle Atlantic	142,015	125,374	13.0%	14,594	12,062	125,529	111,563	620	614	1,272	1,135
New Jersey	33,560	30,000	12.0%	NM	NM	33,030	29,451	92	93	190	170
New York	51,037	45,584	12.0%	14,343	11,766	35,866	33,127	469	457	358	233
Pennsylvania	57,418	49,790	15.0%	3	11	56,633	48,984	58	64	724	732
East North Central	104,286	86,613	20.0%	41,208	40,329	60,567	43,719	790	690	1,721	1,876
Illinois	19,052	15,932	20.0%	2,357	NM	16,062	13,477	251	193	381	482
Indiana	20,084	14,084	43.0%	9,434	10,962	9,642	2,224	89	88	918	810
Michigan	21,257	22,153	-4.0%	9,576	9,976	11,193	11,515	259	243	228	419
Ohio	28,854	21,038	37.0%	6,805	5,683	21,844	15,157	130	142	75	57
Wisconsin	15,040	13,406	12.0%	13,036	11,929	1,825	1,345	60	24	119	108
West North Central	30,385	25,257	20.0%	26,307	22,295	3,661	2,527	151	144	266	292
Iowa	6,086	4,004	52.0%	5,841	3,783	NM	NM	46	50	199	171
Kansas	4,625	4,070	14.0%	4,615	4,037	0	0	0	0	10	32
Minnesota	8,934	8,048	11.0%	7,471	6,663	1,380	1,278	45	39	38	68
Missouri	7,015	5,446	29.0%	4,665	4,133	2,281	NM	60	54	9	10
Nebraska	1,287	1,514	-15.0%	1,285	1,513	0	0	1	0	0	0
North Dakota	1,276	1,106	15.0%	1,267	1,094	0	0	0	0	9	11
South Dakota	1,163	1,071	8.6%	1,163	1,071	0	0	0	0	0	0
South Atlantic	291,369	259,415	12.0%	231,236	206,254	56,989	50,151	930	570	2,215	2,441
Delaware	4,288	5,962	-28.0%	62	34	3,802	5,430	0	0	425	498
District of Columbia	59	62	-3.8%	0	0	0	0	59	62	0	0
Florida	130,529	125,235	4.2%	121,399	115,583	8,380	8,937	10	12	740	703
Georgia	43,719	40,303	8.5%	31,428	29,684	11,987	10,108	0	0	304	511
Maryland	12,436	6,356	96.0%	3,270	0	8,277	5,832	852	483	37	41
North Carolina	38,414	28,307	36.0%	33,074	24,160	5,264	4,052	8	8	68	87
South Carolina	20,523	13,768	49.0%	15,597	11,997	4,868	1,698	0	0	57	73
Virginia	39,801	37,706	5.6%	26,227	24,615	13,162	12,731	0	5	413	356
West Virginia	1,600	1,716	-6.8%	179	181	1,250	1,363	0	0	170	172
East South Central	105,935	101,378	4.5%	72,890	69,914	31,815	30,223	84	76	1,146	1,165
Alabama	43,784	42,099	4.0%	15,683	14,276	27,533	27,211	0	0	568	612
Kentucky	10,792	10,953	-1.5%	9,742	10,380	969	489	0	0	81	84
Mississippi	39,628	39,398	0.6%	36,157	36,690	3,296	2,510	0	0	175	199
Tennessee	11,730	8,927	31.0%	11,309	8,568	16	12	84	76	321	270
West South Central	311,442	276,761	13.0%	125,201	100,022	152,767	143,955	427	412	33,047	32,373
Arkansas	16,105	16,454	-2.1%	15,374	6,726	620	9,605	0	0	111	124
Louisiana	45,220	42,499	6.4%	29,673	27,080	3,305	2,670	70	58	12,172	12,690
Oklahoma	42,071	34,977	20.0%	28,438	23,410	13,372	11,364	0	0	261	202
Texas	208,046	182,832	14.0%	51,716	42,806	135,470	120,316	357	353	20,504	19,357
Mountain	101,698	87,999	16.0%	79,148	66,272	21,042	20,486	189	206	1,319	1,036
Arizona	37,192	34,062	9.2%	25,373	20,952	11,759	13,049	60	61	0	0
Colorado	14,492	12,359	17.0%	11,413	10,014	3,049	2,320	0	0	29	26
Idaho	3,165	2,542	25.0%	1,974	1,533	1,139	948	14	14	38	47
Montana	556	634	-12.0%	415	491	141	143	0	0	0	0
Nevada	25,460	22,934	11.0%	23,570	21,273	1,345	1,348	24	23	522	290
New Mexico	11,019	9,229	19.0%	7,790	6,647	3,153	2,530	50	50	26	2
Utah	9,212	5,679	62.0%	8,318	5,072	455	146	41	59	397	402
Wyoming	603	561	7.5%	294	290	1	2	0	0	308	269
Pacific Contiguous	110,549	87,935	26.0%	40,063	33,484	63,657	47,640	1,063	985	5,765	5,827
California	87,202	70,503	24.0%	27,508	24,136	52,946	39,629	1,039	973	5,708	5,765
Oregon	11,937	9,450	26.0%	5,016	4,224	6,862	5,177	18	11	41	37
Washington	11,409	7,983	43.0%	7,539	5,124	3,849	2,833	5	0	16	26
Pacific Noncontiguous	3,610	3,095	17.0%	3,588	3,075	0	0	0	0	22	21
Alaska	3,610	3,095	17.0%	3,588	3,075	0	0	0	0	22	21
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,244,684	1,091,770	14.0%	634,830	554,104	557,784	486,788	4,728	4,170	47,341	46,707

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

Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through July 2018 and July 2017 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	198,336	204,549	-3.0%	1,536	1,442	190,732	197,105	2,642	2,615	3,426	3,388
Connecticut	73,435	60,717	21.0%	214	220	70,527	57,860	1,109	1,101	1,585	1,536
Maine	10,299	11,778	-13.0%	0	0	9,250	10,703	87	82	962	993
Massachusetts	79,408	94,349	-16.0%	NM	NM	76,231	91,361	1,297	1,272	764	742
New Hampshire	10,208	14,379	-29.0%	199	241	9,877	13,995	17	26	115	116
Rhode Island	24,977	23,316	7.1%	0	0	24,848	23,186	130	131	0	0
Vermont	10	9	2.3%	7	7	0	0	3	2	0	0
Middle Atlantic	671,198	614,279	9.3%	56,955	53,675	602,916	550,720	3,577	3,507	7,749	6,378
New Jersey	158,576	157,488	0.7%	NM	1,240	155,853	154,617	536	560	1,173	1,070
New York	219,430	218,879	0.3%	55,895	52,399	158,570	162,628	2,610	2,551	2,355	1,301
Pennsylvania	293,192	237,912	23.0%	47	35	288,492	233,474	431	396	4,221	4,007
East North Central	555,545	413,377	34.0%	212,414	180,388	324,301	214,993	4,449	4,303	14,381	13,692
Illinois	73,679	69,655	5.8%	7,501	6,504	62,305	59,220	1,169	1,151	2,704	2,781
Indiana	109,516	74,924	46.0%	54,661	58,389	47,145	9,663	550	582	7,160	6,289
Michigan	137,302	109,711	25.0%	48,593	39,477	83,933	65,405	1,753	1,623	3,024	3,207
Ohio	166,600	108,877	53.0%	39,657	32,131	125,678	75,514	693	744	572	489
Wisconsin	68,448	50,209	36.0%	62,002	43,888	5,240	5,192	284	204	922	926
West North Central	137,285	89,423	54.0%	118,271	76,538	16,351	10,700	936	837	1,727	1,348
Iowa	28,963	13,495	115.0%	27,669	12,569	NM	NM	301	252	993	673
Kansas	21,668	12,842	69.0%	21,454	12,707	0	0	0	0	214	135
Minnesota	40,039	29,477	36.0%	33,495	24,333	5,922	4,429	272	319	350	397
Missouri	32,276	22,139	46.0%	21,417	15,510	10,429	6,271	336	259	94	100
Nebraska	4,103	3,295	25.0%	4,077	3,288	0	0	27	7	0	0
North Dakota	5,896	4,789	23.0%	5,819	4,746	0	0	0	0	77	44
South Dakota	4,340	3,385	28.0%	4,340	3,385	0	0	0	0	0	0
South Atlantic	1,528,225	1,385,625	10.0%	1,232,617	1,127,292	276,971	240,257	5,027	3,646	13,610	14,429
Delaware	24,884	30,935	-20.0%	85	69	22,703	28,127	0	0	2,096	2,739
District of Columbia	382	420	-8.9%	0	0	0	0	382	420	0	0
Florida	716,439	679,499	5.4%	673,284	629,917	38,446	45,043	68	83	4,641	4,457
Georgia	230,015	215,231	6.9%	169,452	163,465	58,280	49,344	0	0	2,283	2,422
Maryland	58,357	29,516	98.0%	14,670	0	38,918	26,181	4,498	3,074	270	262
North Carolina	190,327	161,993	17.0%	164,462	140,272	25,362	21,308	40	42	463	371
South Carolina	86,831	75,011	16.0%	70,927	65,876	15,429	8,642	1	3	474	490
Virginia	214,540	187,571	14.0%	138,511	126,767	73,295	58,196	38	26	2,696	2,583
West Virginia	6,450	5,448	18.0%	1,226	926	4,538	3,416	0	0	686	1,105
East South Central	587,052	508,064	16.0%	407,702	348,816	171,460	151,596	587	539	7,303	7,112
Alabama	238,390	211,544	13.0%	88,497	73,870	146,057	133,908	0	0	3,837	3,766
Kentucky	66,534	49,245	35.0%	61,478	46,823	4,551	1,831	0	0	504	592
Mississippi	226,929	200,354	13.0%	204,946	183,326	20,745	15,787	39	21	1,199	1,221
Tennessee	55,199	46,921	18.0%	52,782	44,798	107	71	548	519	1,762	1,533
West South Central	1,510,545	1,267,776	19.0%	541,055	419,897	752,883	631,090	2,114	2,338	214,493	214,451
Arkansas	90,460	75,961	19.0%	52,243	28,532	37,340	46,617	0	0	877	812
Louisiana	252,458	235,832	7.0%	151,135	132,577	19,620	18,300	402	385	81,301	84,569
Oklahoma	186,851	134,210	39.0%	116,863	88,204	68,355	44,984	0	0	1,632	1,022
Texas	980,776	821,773	19.0%	220,815	170,584	627,568	521,189	1,712	1,952	130,682	128,048
Mountain	426,815	368,807	16.0%	337,928	284,534	79,920	75,700	1,282	1,230	7,684	7,343
Arizona	138,013	117,296	18.0%	102,697	79,934	34,941	37,004	375	359	0	0
Colorado	71,758	53,889	33.0%	59,519	43,972	12,048	9,722	0	0	190	195
Idaho	10,459	10,462	0.0%	4,698	5,981	5,356	4,041	99	100	305	340
Montana	2,511	2,646	-5.1%	2,195	2,226	310	410	0	0	6	10
Nevada	112,993	110,187	2.5%	102,600	100,298	8,502	8,448	157	137	1,734	1,304
New Mexico	53,683	44,528	21.0%	35,904	29,228	17,406	14,969	298	320	74	11
Utah	34,024	26,792	27.0%	29,386	22,273	1,348	1,096	353	314	2,937	3,109
Wyoming	3,374	3,007	12.0%	928	623	9	11	0	0	2,437	2,374
Pacific Contiguous	426,681	391,312	9.0%	166,410	150,910	215,431	194,597	6,563	6,639	38,276	39,166
California	339,373	323,004	5.1%	121,042	116,115	174,242	161,780	6,381	6,504	37,707	38,605
Oregon	48,432	35,085	38.0%	21,838	15,397	26,171	19,320	129	92	294	275
Washington	38,876	33,223	17.0%	23,530	19,398	15,018	13,497	53	42	275	286
Pacific Noncontiguous	17,209	13,678	26.0%	17,057	13,497	0	0	2	21	150	160
Alaska	17,209	13,678	26.0%	17,057	13,497	0	0	2	21	150	160
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,058,891	5,256,892	15.0%	3,091,946	2,656,989	2,630,966	2,266,760	27,179	25,675	308,800	307,468

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

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, July 2018 and July 2017 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	925	962	-3.9%	0	0	904	940	21	22	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	NM	NM	0	0	NM	NM	0	0	0	0
Massachusetts	346	371	-6.7%	0	0	346	371	0	0	0	0
New Hampshire	78	90	-13.0%	0	0	57	NM	21	22	0	0
Rhode Island	385	374	2.8%	0	0	385	374	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,226	4,649	-9.1%	0	0	4,075	4,445	NM	NM	67	105
New Jersey	578	692	-16.0%	0	0	554	663	NM	NM	0	0
New York	1,302	1,391	-6.4%	0	0	1,302	1,391	0	0	0	0
Pennsylvania	2,346	2,567	-8.6%	0	0	2,219	2,391	NM	NM	67	105
East North Central	4,966	5,361	-7.4%	582	670	4,352	4,656	10	30	21	NM
Illinois	768	1,035	-26.0%	26	31	743	1,004	0	0	0	0
Indiana	665	750	-11.0%	556	639	109	111	0	0	0	NM
Michigan	1,683	1,714	-1.8%	0	0	1,683	1,714	0	0	0	0
Ohio	932	927	0.5%	0	0	932	927	0	0	0	0
Wisconsin	918	935	-1.9%	0	0	886	900	10	30	21	5
West North Central	937	1,015	-7.7%	254	297	683	718	0	0	0	0
Iowa	216	232	-6.9%	0	0	216	232	0	0	0	0
Kansas	117	NM	NM	0	0	117	NM	0	0	0	0
Minnesota	304	335	-9.1%	NM	NM	259	264	0	0	0	0
Missouri	132	172	-23.0%	NM	NM	92	NM	0	0	0	0
Nebraska	168	155	8.3%	168	155	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	3,568	3,899	-8.5%	367	384	2,942	3,266	NM	NM	170	151
Delaware	105	NM	NM	0	0	93	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	613	607	1.0%	164	128	449	479	0	0	0	0
Georgia	308	341	-9.5%	0	0	272	331	0	0	NM	10
Maryland	203	223	-8.7%	0	0	149	167	NM	NM	0	0
North Carolina	876	951	-7.9%	0	0	857	928	NM	NM	0	0
South Carolina	351	415	-15.0%	198	252	NM	NM	0	0	121	129
Virginia	1,112	1,248	-11.0%	4	4	1,091	1,225	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	443	476	-6.9%	164	184	279	292	0	0	0	0
Alabama	95	NM	NM	0	0	95	NM	0	0	0	0
Kentucky	176	199	-12.0%	164	184	12	15	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	156	163	-4.5%	0	0	156	163	0	0	0	0
West South Central	1,209	1,285	-5.9%	0	0	1,167	1,254	42	30	0	0
Arkansas	137	138	-0.8%	0	0	137	138	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,042	1,114	-6.4%	0	0	1,001	1,083	42	30	0	0
Mountain	527	529	-0.5%	NM	NM	461	480	52	31	0	0
Arizona	74	NM	NM	0	0	74	NM	0	0	0	0
Colorado	92	NM	NM	0	0	92	NM	0	0	0	0
Idaho	68	NM	NM	NM	NM	NM	NM	20	19	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	116	NM	NM	0	0	116	NM	0	0	0	0
New Mexico	0	NM	NM	0	0	0	NM	0	0	0	0
Utah	176	147	20.0%	0	0	144	135	32	12	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,220	4,537	-7.0%	129	426	2,912	2,911	1,178	1,200	0	0
California	3,662	3,668	-0.2%	NM	NM	2,506	2,496	1,146	1,163	0	0
Oregon	468	504	-7.2%	120	133	317	334	NM	NM	0	0
Washington	89	365	-75.0%	0	284	89	NM	0	0	0	0
Pacific Noncontiguous	66	72	-8.5%	0	0	0	0	66	72	0	0
Alaska	66	72	-8.5%	0	0	0	0	66	72	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,085	22,785	-7.5%	1,510	1,979	17,775	18,962	1,543	1,583	258	261

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through July 2018 and July 2017 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	6,251	6,355	-1.6%	0	0	6,130	6,230	121	124	0	0
Connecticut	252	256	-1.4%	0	0	252	256	0	0	0	0
Maine	392	397	-1.4%	0	0	392	397	0	0	0	0
Massachusetts	2,451	2,494	-1.7%	0	0	2,451	2,494	0	0	0	0
New Hampshire	576	587	-2.0%	0	0	455	463	121	124	0	0
Rhode Island	2,356	2,405	-2.0%	0	0	2,356	2,405	0	0	0	0
Vermont	224	216	3.8%	0	0	224	216	0	0	0	0
Middle Atlantic	30,246	31,061	-2.6%	0	0	28,890	29,580	571	556	784	925
New Jersey	4,458	4,433	0.6%	0	0	4,274	4,252	184	181	0	0
New York	9,328	9,440	-1.2%	0	0	9,328	9,440	0	0	0	0
Pennsylvania	16,461	17,189	-4.2%	0	0	15,289	15,888	388	375	784	925
East North Central	36,280	37,458	-3.1%	4,315	4,608	31,608	32,498	193	209	164	144
Illinois	6,219	7,313	-15.0%	208	249	6,011	7,064	0	0	0	0
Indiana	4,843	4,972	-2.6%	4,107	4,300	721	665	0	0	16	NM
Michigan	12,076	12,152	-0.6%	0	0	12,076	12,152	0	0	0	0
Ohio	6,319	6,310	0.1%	0	0	6,319	6,310	0	0	0	0
Wisconsin	6,822	6,711	1.6%	0	NM	6,481	6,308	193	209	148	137
West North Central	6,891	6,122	13.0%	2,010	2,012	4,881	4,109	0	0	0	0
Iowa	1,554	835	86.0%	0	0	1,554	835	0	0	0	0
Kansas	832	819	1.6%	0	0	832	819	0	0	0	0
Minnesota	2,273	2,272	0.0%	459	498	1,814	1,775	0	0	0	0
Missouri	1,143	1,205	-5.1%	462	524	681	681	0	0	0	0
Nebraska	1,089	991	9.9%	1,089	991	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	26,660	26,594	0.3%	2,750	2,766	21,989	21,850	733	719	1,188	1,259
Delaware	781	784	-0.4%	0	0	696	697	0	0	85	86
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,267	4,196	1.7%	1,035	978	3,231	3,218	0	0	0	0
Georgia	2,312	2,284	1.3%	0	0	2,210	2,092	0	0	103	192
Maryland	1,600	1,597	0.2%	0	0	1,129	1,134	470	463	0	0
North Carolina	6,213	6,230	-0.3%	0	0	6,090	6,110	123	121	0	0
South Carolina	2,917	2,960	-1.4%	1,682	1,745	235	234	0	0	1,001	981
Virginia	8,571	8,543	0.3%	33	43	8,397	8,365	140	135	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,205	3,211	-0.2%	1,233	1,244	1,971	1,967	0	0	0	0
Alabama	663	648	2.3%	0	0	663	648	0	0	0	0
Kentucky	1,306	1,344	-2.8%	1,233	1,244	73	99	0	0	0	0
Mississippi	123	123	0.5%	0	0	123	123	0	0	0	0
Tennessee	1,113	1,097	1.4%	0	0	1,113	1,097	0	0	0	0
West South Central	8,575	8,978	-4.5%	0	0	8,234	8,689	341	289	0	0
Arkansas	951	927	2.6%	0	0	951	927	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	220	221	-0.3%	0	0	220	221	0	0	0	0
Texas	7,404	7,830	-5.4%	0	0	7,063	7,541	341	289	0	0
Mountain	3,806	3,756	1.3%	123	130	3,384	3,357	299	270	0	0
Arizona	531	524	1.4%	0	0	531	524	0	0	0	0
Colorado	644	631	2.2%	0	0	644	631	0	0	0	0
Idaho	473	483	-2.0%	123	130	246	245	104	108	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	910	923	-1.4%	0	0	910	923	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	1,235	1,176	5.0%	0	0	1,039	1,014	195	162	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	32,158	32,115	0.1%	3,254	4,002	20,507	19,771	8,398	8,343	0	0
California	26,698	26,333	1.4%	832	1,149	17,744	17,114	8,121	8,069	0	0
Oregon	3,343	3,236	3.3%	860	849	2,206	2,113	277	274	0	0
Washington	2,118	2,547	-17.0%	1,562	2,003	556	544	0	0	0	0
Pacific Noncontiguous	493	418	18.0%	0	0	0	0	493	418	0	0
Alaska	493	418	18.0%	0	0	0	0	493	418	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	154,564	156,069	-1.0%	13,685	14,761	127,594	128,051	11,149	10,928	2,136	2,328

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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, July 2018 and July 2017 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	300	305	-1.7%	0	0	287	287	13	18	0	0
Connecticut	104	102	2.6%	0	0	104	102	0	0	0	0
Maine	23	28	-17.0%	0	0	10	10	13	18	0	0
Massachusetts	162	165	-1.7%	0	0	162	165	0	0	0	0
New Hampshire	11	11	-5.0%	0	0	11	11	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	474	485	-2.2%	0	0	380	387	94	98	0	0
New Jersey	123	130	-5.5%	0	0	93	100	30	31	0	0
New York	179	182	-2.1%	0	0	134	136	45	46	0	0
Pennsylvania	173	172	0.3%	0	0	153	151	20	21	0	0
East North Central	22	21	2.5%	3	3	0	0	18	18	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	-7.9%	0	0	0	0	2	2	0	0
Michigan	17	17	1.6%	0	0	0	0	17	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	13.0%	3	3	0	0	0	0	0	0
West North Central	66	59	13.0%	44	38	22	21	0	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	66	59	13.0%	44	38	22	21	0	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	499	445	12.0%	0	0	463	398	36	47	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	337	341	-1.2%	0	0	337	341	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	62	57	9.0%	0	0	62	57	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	101	47	113.0%	0	0	64	0	36	47	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	-3.4%	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	-3.4%	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	57	64	-10.0%	0	0	57	64	0	0	0	0
California	32	40	-19.0%	0	0	32	40	0	0	0	0
Oregon	10	9	12.0%	0	0	10	9	0	0	0	0
Washington	15	15	-0.2%	0	0	15	15	0	0	0	0
Pacific Noncontiguous	38	36	4.4%	0	0	0	0	38	36	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	38	36	4.4%	0	0	0	0	38	36	0	0
U.S. Total	1,458	1,416	2.9%	48	41	1,208	1,156	200	218	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 July 2018 and July 2017 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	2,041	2,116	-3.5%	0	0	1,936	1,996	105	120	0	0
Connecticut	678	734	-7.6%	0	0	678	734	0	0	0	0
Maine	171	186	-7.9%	0	0	66	67	105	120	0	0
Massachusetts	1,120	1,122	-0.2%	0	0	1,120	1,122	0	0	0	0
New Hampshire	72	73	-2.0%	0	0	72	73	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,104	3,122	-0.6%	0	0	2,471	2,489	633	633	0	0
New Jersey	841	832	1.1%	0	0	635	628	206	204	0	0
New York	1,133	1,145	-1.0%	0	0	847	862	286	283	0	0
Pennsylvania	1,130	1,145	-1.3%	0	0	988	999	141	146	0	0
East North Central	137	141	-2.9%	20	22	0	0	117	119	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	12	11	9.2%	0	0	0	0	12	11	0	0
Michigan	105	109	-3.2%	0	0	0	0	105	109	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	20	22	-7.3%	20	22	0	0	0	0	0	0
West North Central	379	358	5.7%	244	217	134	141	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	379	358	5.7%	244	217	134	141	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	3,315	2,995	11.0%	0	0	3,049	2,689	266	306	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	2,247	2,264	-0.8%	0	0	2,247	2,264	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	377	358	5.2%	0	0	377	358	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	691	372	86.0%	0	0	425	66	266	306	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	6	4	75.0%	0	0	0	0	0	0	6	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	6	4	75.0%	0	0	0	0	0	0	6	4
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	418	438	-4.6%	0	0	418	438	0	0	0	0
California	258	284	-9.2%	0	0	258	284	0	0	0	0
Oregon	67	62	7.1%	0	0	67	62	0	0	0	0
Washington	94	92	1.8%	0	0	94	92	0	0	0	0
Pacific Noncontiguous	256	240	6.7%	0	0	0	0	256	240	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	256	240	6.7%	0	0	0	0	256	240	0	0
U.S. Total	9,656	9,414	2.6%	264	239	8,009	7,754	1,377	1,417	6	4

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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 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, July 2018 and July 2017 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	5,008	6,058	-17.0%	775	935	3,737	4,636	0	2	496	486
Connecticut	355	467	-24.0%	0	0	355	467	0	0	0	0
Maine	2,062	2,383	-13.0%	0	0	1,567	1,897	0	0	496	486
Massachusetts	167	237	-30.0%	0	0	167	237	0	0	0	0
New Hampshire	1,917	2,279	-16.0%	439	460	1,478	1,819	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	506	693	-27.0%	336	476	170	216	0	1	0	0
Middle Atlantic	936	1,207	-22.0%	0	0	642	623	0	0	295	584
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	730	712	2.5%	0	0	642	622	0	0	88	89
Pennsylvania	207	495	-58.0%	0	0	0	0	0	0	207	495
East North Central	2,342	2,218	5.6%	517	380	1,156	1,140	0	0	669	698
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,462	1,457	0.3%	0	0	1,146	1,128	0	0	316	329
Ohio	97	113	-15.0%	0	0	10	12	0	0	86	101
Wisconsin	784	648	21.0%	517	380	0	0	0	0	267	268
West North Central	821	1,026	-20.0%	183	203	343	558	45	39	250	225
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	786	990	-21.0%	183	203	343	558	10	4	250	225
Missouri	35	35	0.3%	0	0	0	0	35	35	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	11,130	11,198	-0.6%	2,751	1,815	2,650	3,596	13	0	5,716	5,787
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	1,943	1,550	25.0%	633	0	517	747	0	0	794	803
Georgia	2,760	3,181	-13.0%	0	0	545	1,045	0	0	2,215	2,135
Maryland	52	76	-31.0%	0	0	0	0	13	0	40	76
North Carolina	1,314	1,478	-11.0%	0	0	785	846	0	0	528	632
South Carolina	1,610	1,780	-9.5%	152	152	509	690	0	0	949	938
Virginia	3,450	3,132	10.0%	1,965	1,663	295	267	0	0	1,190	1,202
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,314	3,349	-1.1%	0	0	219	223	0	0	3,095	3,127
Alabama	2,114	2,179	-3.0%	0	0	219	223	0	0	1,895	1,956
Kentucky	149	148	0.5%	0	0	0	0	0	0	149	148
Mississippi	661	642	3.1%	0	0	0	0	0	0	661	642
Tennessee	390	381	2.5%	0	0	0	0	0	0	390	381
West South Central	3,014	2,571	17.0%	0	0	486	0	0	0	2,528	2,571
Arkansas	609	597	2.0%	0	0	0	0	0	0	609	597
Louisiana	1,371	1,414	-3.1%	0	0	0	0	0	0	1,371	1,414
Oklahoma	156	156	0.4%	0	0	7	0	0	0	149	156
Texas	878	404	117.0%	0	0	478	0	0	0	399	404
Mountain	555	676	-18.0%	0	0	389	519	0	0	166	157
Arizona	254	363	-30.0%	0	0	254	363	0	0	0	0
Colorado	103	122	-16.0%	0	0	103	122	0	0	0	0
Idaho	175	170	3.2%	0	0	33	34	0	0	143	136
Montana	23	21	13.0%	0	0	0	0	0	0	23	21
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,599	5,930	-5.6%	400	506	3,522	3,856	0	0	1,677	1,568
California	3,771	3,921	-3.8%	0	0	3,248	3,554	0	0	523	368
Oregon	644	662	-2.6%	0	0	274	302	0	0	370	360
Washington	1,183	1,347	-12.0%	400	506	0	0	0	0	783	841
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	32,719	34,231	-4.4%	4,626	3,839	13,145	15,149	59	41	14,890	15,202

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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 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through July 2018 and July 2017 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	33,005	36,137	-8.7%	4,294	5,033	25,509	27,856	14	42	3,188	3,206
Connecticut	2,452	2,727	-10.0%	0	0	2,452	2,727	0	0	0	0
Maine	13,863	14,789	-6.3%	0	0	10,667	11,548	9	35	3,188	3,206
Massachusetts	1,188	1,348	-12.0%	0	0	1,188	1,348	0	0	0	0
New Hampshire	12,216	13,742	-11.0%	2,180	2,792	10,036	10,950	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,285	3,531	-7.0%	2,114	2,242	1,166	1,283	5	6	0	0
Middle Atlantic	7,431	7,914	-6.1%	0	0	4,149	3,959	0	0	3,282	3,955
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,756	4,578	3.9%	0	0	4,148	3,958	0	0	609	620
Pennsylvania	2,675	3,336	-20.0%	0	0	1	1	0	0	2,673	3,335
East North Central	15,308	15,184	0.8%	3,260	3,029	7,451	7,670	0	0	4,597	4,484
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	9,541	9,648	-1.1%	0	0	7,366	7,583	0	0	2,175	2,065
Ohio	679	744	-8.8%	0	0	85	88	0	0	594	657
Wisconsin	5,089	4,792	6.2%	3,260	3,029	0	0	0	0	1,828	1,762
West North Central	6,245	6,398	-2.4%	1,236	1,284	3,072	3,228	207	218	1,730	1,668
Iowa	1	2	-63.0%	0	0	0	0	1	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	6,072	6,192	-1.9%	1,236	1,284	3,072	3,228	34	12	1,730	1,668
Missouri	172	204	-16.0%	0	0	0	0	172	204	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	74,559	72,688	2.6%	16,282	13,290	20,030	21,924	80	27	38,167	37,447
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	12,858	11,766	9.3%	2,806	0	4,756	6,442	0	0	5,296	5,324
Georgia	19,390	18,334	5.8%	0	0	4,873	4,463	0	0	14,518	13,871
Maryland	411	389	5.6%	0	0	0	0	80	27	331	362
North Carolina	9,067	9,125	-0.6%	0	0	4,986	5,239	0	0	4,081	3,887
South Carolina	10,740	11,124	-3.5%	1,118	1,080	3,552	3,909	0	0	6,071	6,136
Virginia	22,093	21,950	0.7%	12,359	12,210	1,864	1,871	0	0	7,871	7,868
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	21,544	21,662	-0.5%	0	0	1,450	1,436	0	0	20,094	20,226
Alabama	14,019	14,069	-0.4%	0	0	1,450	1,436	0	0	12,569	12,633
Kentucky	984	950	3.6%	0	0	0	0	0	0	984	950
Mississippi	4,031	4,132	-2.4%	0	0	0	0	0	0	4,031	4,132
Tennessee	2,509	2,510	0.0%	0	0	0	0	0	0	2,509	2,510
West South Central	18,779	17,325	8.4%	0	0	1,801	827	0	0	16,978	16,498
Arkansas	4,120	3,958	4.1%	0	0	0	0	0	0	4,120	3,958
Louisiana	9,115	9,102	0.1%	0	0	0	0	0	0	9,115	9,102
Oklahoma	1,109	827	34.0%	0	0	10	0	0	0	1,098	827
Texas	4,436	3,439	29.0%	0	0	1,791	827	0	0	2,644	2,612
Mountain	3,808	4,039	-5.7%	0	0	2,659	2,988	0	0	1,149	1,051
Arizona	1,795	2,044	-12.0%	0	0	1,795	2,044	0	0	0	0
Colorado	684	776	-12.0%	0	0	684	776	0	0	0	0
Idaho	1,189	1,080	10.0%	0	0	180	168	0	0	1,009	912
Montana	140	139	1.0%	0	0	0	0	0	0	140	139
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	37,455	38,146	-1.8%	2,734	3,006	23,316	24,917	0	0	11,405	10,223
California	24,986	25,566	-2.3%	0	0	21,505	23,001	0	0	3,481	2,565
Oregon	4,240	4,294	-1.2%	0	0	1,810	1,915	0	0	2,430	2,378
Washington	8,229	8,286	-0.7%	2,734	3,006	0	0	0	0	5,495	5,279
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	218,133	219,493	-0.6%	27,806	25,643	89,437	94,804	301	287	100,589	98,758

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

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2008 - July 2018

	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									
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
2017	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2016, End of Month Stocks									
January	187,203	32,307	1,320	146,300	20,894	1,089	40,903	11,412	231
February	187,064	31,644	1,323	145,895	20,651	1,064	41,168	10,994	259
March	191,553	31,569	1,240	148,648	20,642	974	42,905	10,927	266
April	193,185	31,788	1,181	150,859	20,926	901	42,327	10,863	280
May	192,417	32,139	1,071	150,639	21,202	826	41,778	10,936	246
June	182,086	31,992	905	144,309	21,133	689	37,777	10,859	216
July	168,119	31,606	858	134,344	20,906	678	33,775	10,700	180
August	158,908	31,565	780	128,256	20,846	589	30,652	10,719	191
Sept	156,567	31,637	768	127,532	20,924	566	29,035	10,713	201
October	160,932	31,831	813	131,510	21,017	606	29,422	10,813	207
November	170,277	32,503	833	138,091	21,583	606	32,185	10,921	227
December	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
Year 2017, End of Month Stocks									
January	156,175	31,468	794	125,187	20,714	542	30,988	10,754	252
February	160,448	31,094	822	128,010	20,442	551	32,438	10,652	271
March	161,690	31,622	855	128,574	21,144	566	33,116	10,478	289
April	163,723	31,325	933	130,307	21,030	630	33,416	10,295	303
May	162,309	30,880	881	129,141	20,595	570	33,168	10,286	312
June	157,719	30,549	868	126,382	20,545	542	31,337	10,004	325
July	145,376	30,469	875	117,432	20,550	552	27,945	9,920	323
August	141,720	30,072	919	114,139	20,227	576	27,581	9,845	343
Sept	139,315	29,647	988	113,121	20,053	632	26,194	9,594	357
October	141,204	29,646	1,058	114,807	20,003	690	26,397	9,643	368
November	143,210	29,671	1,089	117,650	20,092	685	25,560	9,579	405
December	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2018, End of Month Stocks									
January	123,499	26,377	999	103,884	18,324	587	19,614	8,052	412
February	120,866	27,112	1,001	101,757	18,782	570	19,109	8,330	431
March	126,398	27,067	1,061	106,658	18,895	621	19,740	8,171	440
April	128,980	26,925	1,106	108,171	18,893	655	20,809	8,032	451
May	128,440	27,131	1,111	107,544	18,987	656	20,895	8,144	455
June	121,473	26,715	1,022	101,839	18,577	534	19,634	8,138	488
July	110,485	26,158	1,138	93,145	18,062	623	17,340	8,095	515

Notes: See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, July 2018 and 2017

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	July 2018	July 2017	Percentage Change	July 2018	July 2017	Percentage Change	July 2018	July 2017	Percentage Change
New England	702	W	W	3,084	3,965	-22.2%	0	0	--
Connecticut	W	W	W	1,135	1,440	-21.1%	0	0	--
Maine	0	0	--	201	413	-51.4%	0	0	--
Massachusetts	W	W	W	1,338	1,579	-15.2%	0	0	--
New Hampshire	W	W	W	232	342	-32.2%	0	0	--
Rhode Island	W	W	W	138	149	-7.7%	0	0	--
Vermont	0	0	--	40	42	-5.9%	0	0	--
Middle Atlantic	2,699	3,689	-26.8%	4,562	5,484	-16.8%	0	0	--
New Jersey	W	125	W	626	634	-1.2%	0	0	--
New York	W	W	W	2,981	3,604	-17.3%	0	0	--
Pennsylvania	2,509	W	W	955	1,246	-23.4%	0	0	--
East North Central	21,696	29,324	-26.0%	1,099	1,096	0.3%	W	379	W
Illinois	4,559	6,419	-29.0%	55	75	-26.1%	0	0	--
Indiana	6,994	8,875	-21.2%	170	107	59.2%	W	W	W
Michigan	3,309	4,258	-22.3%	300	335	-10.5%	W	W	W
Ohio	3,563	5,688	-37.4%	383	378	1.4%	W	W	W
Wisconsin	3,270	4,084	-19.9%	191	202	-5.2%	W	W	W
West North Central	21,806	27,378	-20.4%	736	895	-17.8%	0	0	--
Iowa	4,711	6,749	-30.2%	90	112	-19.6%	0	0	--
Kansas	3,304	3,881	-14.9%	98	114	-14.1%	0	0	--
Minnesota	2,407	3,483	-30.9%	82	116	-29.8%	0	0	--
Missouri	7,573	7,989	-5.2%	316	357	-11.4%	0	0	--
Nebraska	2,303	3,378	-31.8%	87	110	-20.8%	0	0	--
North Dakota	W	W	W	25	36	-29.4%	0	0	--
South Dakota	W	W	W	37	49	-24.7%	0	0	--
South Atlantic	18,211	25,267	-27.9%	10,504	12,517	-16.1%	W	W	W
Delaware	W	W	W	349	394	-11.6%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,604	4,398	-18.1%	4,595	5,691	-19.3%	W	85	W
Georgia	3,979	5,076	-21.6%	744	820	-9.4%	0	0	--
Maryland	848	1,643	-48.4%	548	890	-38.4%	0	0	--
North Carolina	3,328	4,579	-27.3%	1,166	1,257	-7.2%	0	0	--
South Carolina	2,596	4,335	-40.1%	644	707	-8.9%	0	0	--
Virginia	763	1,063	-28.3%	2,345	2,626	-10.7%	0	0	--
West Virginia	W	W	W	114	133	-14.3%	W	W	W
East South Central	10,145	14,910	-32.0%	1,708	1,926	-11.3%	W	W	W
Alabama	2,365	2,996	-21.1%	310	333	-6.9%	0	0	--
Kentucky	4,818	7,674	-37.2%	247	240	2.8%	W	W	W
Mississippi	W	1,029	W	535	564	-5.1%	0	0	--
Tennessee	W	3,211	W	616	789	-21.9%	0	0	--
West South Central	15,182	21,827	-30.4%	1,609	1,750	-8.1%	W	W	W
Arkansas	2,261	2,654	-14.8%	163	186	-12.3%	0	0	--
Louisiana	2,012	2,424	-17.0%	357	391	-8.8%	W	W	W
Oklahoma	3,121	3,753	-16.9%	104	99	4.7%	0	0	--
Texas	7,789	12,995	-40.1%	985	1,074	-8.2%	0	0	--
Mountain	18,848	20,159	-6.5%	376	363	3.7%	W	W	W
Arizona	3,177	3,287	-3.3%	136	124	9.8%	0	0	--
Colorado	4,448	3,903	14.0%	127	118	7.3%	0	0	--
Idaho	0	0	--	0	0	-17.5%	0	0	--
Montana	W	W	W	13	18	-24.2%	W	W	W
Nevada	W	W	W	3	6	-49.7%	0	0	--
New Mexico	W	W	W	22	NM	NM	0	0	--
Utah	4,554	5,583	-18.4%	39	34	14.1%	0	0	--
Wyoming	4,053	4,793	-15.4%	35	34	1.6%	0	0	--
Pacific Contiguous	W	W	W	340	339	0.5%	0	0	--
California	0	0	--	183	170	7.6%	0	0	--
Oregon	W	W	W	60	70	-14.5%	0	0	--
Washington	W	W	W	98	99	-1.2%	0	0	--
Pacific Noncontiguous	W	W	W	2,140	2,135	0.2%	0	0	--
Alaska	0	0	--	62	149	-57.9%	0	0	--
Hawaii	W	W	W	2,077	1,987	4.6%	0	0	--
U.S. Total	110,485	145,376	-24.0%	26,158	30,469	-14.2%	1,138	875	30.0%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, July 2018 and 2017

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**July 2018**	**July 2017**	**Percentage Change**	**July 2018**	**July 2017**	**July 2018**	**July 2017**
Coal (Thousand Tons)							
New England	702	W	W	W	W	W	W
Middle Atlantic	2,699	3,689	-26.8%	W	0	W	3,689
East North Central	21,696	29,324	-26.0%	14,671	18,999	7,025	10,325
West North Central	21,806	27,378	-20.4%	21,806	27,378	0	0
South Atlantic	18,211	25,267	-27.9%	16,638	22,645	1,573	2,622
East South Central	10,145	14,910	-32.0%	10,145	14,910	0	0
West South Central	15,182	21,827	-30.4%	11,227	13,409	3,956	8,417
Mountain	18,848	20,159	-6.5%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	0	W	W
U.S. Total	**110,485**	**145,376**	**-24.0%**	**93,145**	**117,432**	**17,340**	**27,945**
Petroleum Liquids (Thousand Barrels)							
New England	3,084	3,965	-22.2%	423	634	2,662	3,331
Middle Atlantic	4,562	5,484	-16.8%	1,818	2,251	2,744	3,233
East North Central	1,099	1,096	0.3%	676	777	423	318
West North Central	736	895	-17.8%	726	871	9	24
South Atlantic	10,504	12,517	-16.1%	8,820	10,146	1,684	2,371
East South Central	1,708	1,926	-11.3%	1,635	1,853	73	73
West South Central	1,609	1,750	-8.1%	1,266	1,342	343	408
Mountain	376	363	3.7%	349	330	27	33
Pacific Contiguous	340	339	0.5%	250	232	91	NM
Pacific Noncontiguous	2,140	2,135	0.2%	2,099	2,112	40	23
U.S. Total	**26,158**	**30,469**	**-14.2%**	**18,062**	**20,550**	**8,095**	**9,920**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	379	W	93	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	85	W	W
East South Central	W	W	W	W	W	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	**1,138**	**875**	**30.0%**	**W**	**W**	**W**	**W**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2008 - July 2018

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
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	55,941	77,542	3,672	137,155
Year 2016, End of Month Stocks				
January	76,919	105,641	4,643	187,203
February	76,373	106,153	4,537	187,064
March	79,664	107,076	4,813	191,553
April	81,390	106,720	5,075	193,185
May	82,185	105,068	5,164	192,417
June	78,216	98,822	5,048	182,086
July	71,287	92,104	4,727	168,119
August	67,462	87,040	4,406	158,908
Sept	65,962	86,411	4,194	156,567
October	67,250	89,666	4,016	160,932
November	70,537	95,428	4,313	170,277
December	67,241	90,376	4,393	162,009
Year 2017, End of Month Stocks				
January	65,806	86,034	4,335	156,175
February	67,754	88,270	4,424	160,448
March	67,740	89,299	4,651	161,690
April	68,129	90,588	5,005	163,723
May	68,251	88,854	5,204	162,309
June	66,475	86,543	4,701	157,719
July	60,498	80,598	4,281	145,376
August	59,134	77,615	4,972	141,720
Sept	58,380	76,990	3,945	139,315
October	59,036	78,648	3,519	141,204
November	59,342	79,787	4,081	143,210
December	55,941	77,542	3,672	137,155
Year 2018, End of Month Stocks				
January	48,446	72,024	3,028	123,499
February	48,199	69,758	2,909	120,866
March	49,556	73,629	3,213	126,398
April	51,011	74,644	3,324	128,980
May	51,902	73,326	3,212	128,440
June	48,899	69,383	3,191	121,473
July	44,960	62,678	2,847	110,485

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - July 2018

	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												
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
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	12,142,749	634,118	2.08	39.75	1.29	93.4	94,007	15,619	11.82	71.15	0.49	65.4
Year 2016												
January	1,035,315	54,397	2.12	40.35	1.32	85.5	9,096	1,519	7.96	47.76	0.48	56.2
February	981,062	50,919	2.11	40.62	1.40	97.9	8,023	1,323	7.00	42.51	0.47	52.0
March	896,983	45,720	2.17	42.66	1.46	110.7	6,912	1,140	6.92	41.99	0.45	68.2
April	807,001	41,015	2.16	42.44	1.45	101.8	8,592	1,414	8.37	50.85	0.42	88.7
May	871,890	44,729	2.16	42.13	1.44	96.6	9,231	1,536	9.82	59.07	0.45	82.6
June	1,022,903	53,300	2.10	40.25	1.35	82.6	7,612	1,262	10.41	62.76	0.50	67.3
July	1,155,747	60,545	2.11	40.30	1.28	80.1	9,030	1,466	11.83	72.83	0.51	59.3
August	1,254,473	65,150	2.11	40.61	1.32	86.6	9,118	1,492	9.46	57.81	0.51	62.6
Sept	1,156,705	60,441	2.12	40.58	1.30	95.0	8,154	1,342	9.40	57.14	0.51	76.1
October	1,141,983	59,814	2.07	39.59	1.28	107.2	8,387	1,390	10.01	60.48	0.54	77.1
November	1,097,110	57,377	2.08	39.83	1.29	116.3	9,715	1,599	10.09	61.31	0.50	87.0
December	1,095,100	57,362	2.08	39.64	1.32	86.4	7,939	1,323	10.78	64.72	0.48	60.9
Year 2017												
January	1,099,948	57,463	2.09	40.08	1.26	88.5	9,304	1,546	11.91	71.72	0.46	70.8
February	997,916	52,098	2.07	39.58	1.30	106.1	6,122	1,015	11.61	70.06	0.49	59.5
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.4
April	893,611	46,168	2.11	40.85	1.34	101.6	6,223	1,033	11.59	69.85	0.48	62.4
May	948,234	49,206	2.13	41.01	1.33	94.5	6,485	1,082	W	W	0.48	56.7
June	1,032,209	53,498	2.11	40.71	1.31	89.0	7,209	1,196	W	W	0.47	63.4
July	1,084,862	56,876	2.09	39.82	1.22	80.1	6,490	1,086	W	W	0.48	54.9
August	1,174,972	61,268	2.08	39.85	1.29	91.4	6,872	1,137	W	W	0.47	61.1
Sept	1,005,155	52,845	2.03	38.55	1.24	94.6	6,394	1,061	W	W	0.49	57.6
October	990,301	51,848	2.03	38.86	1.27	100.9	7,328	1,212	11.87	71.73	0.52	64.7
November	976,444	51,520	2.04	38.67	1.26	98.7	9,313	1,541	12.29	74.29	0.47	85.9
December	972,098	51,155	2.05	38.91	1.27	85.8	10,277	1,693	13.95	84.69	0.47	49.9
Year 2018												
January	951,773	50,275	2.07	39.17	1.24	76.2	29,698	4,948	13.68	82.50	0.48	51.4
February	850,365	44,662	2.07	39.43	1.26	95.0	10,931	1,797	12.60	76.83	0.47	117.8
March	940,506	48,770	2.04	39.42	1.33	106.7	7,265	1,210	W	W	0.42	76.8
April	819,193	42,660	2.07	39.76	1.32	102.2	6,190	1,020	13.71	83.21	0.41	61.5
May	896,833	46,365	2.05	39.69	1.36	95.2	8,731	1,441	14.29	86.68	0.34	74.5
June	931,118	48,533	2.05	39.26	1.35	84.9	8,103	1,346	15.01	90.40	0.32	66.4
July	986,893	51,868	2.06	39.12	1.29	79.9	6,853	1,129	14.69	89.17	0.33	60.7
Year to Date												
2016	6,770,901	350,625	2.13	41.14	1.38	91.4	58,496	9,661	8.98	54.39	0.47	65.6
2017	7,023,779	365,482	2.10	40.30	1.30	93.1	53,823	8,976	11.45	68.64	0.49	68.4
2018	6,376,681	333,133	2.06	39.40	1.31	89.7	77,770	12,891	13.81	83.54	0.41	63.8
Rolling 12 Months Ending in July												
2017	12,769,150	665,627	2.09	40.19	1.30	94.7	97,137	16,122	W	W	0.50	69.8
2018	11,495,652	601,768	2.05	39.22	1.29	91.5	117,954	19,534	W	W	0.44	63.1

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:
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 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
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- 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), 2008 - July 2018 (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												
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
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	W	W	5.56	77.6	8,320,427	8,050,520	3.39	3.51	76.0	W
Year 2016												
January	9,640	341	1.38	38.93	5.68	79.8	826,179	798,251	3.02	3.13	89.9	2.52
February	11,273	408	1.30	35.80	5.53	96.1	736,278	711,506	2.70	2.79	89.6	2.36
March	10,313	363	1.41	40.14	5.33	81.1	797,607	771,918	2.23	2.30	90.4	2.21
April	10,308	369	1.35	37.75	5.56	81.0	773,337	748,523	2.42	2.50	90.9	2.31
May	8,554	307	1.32	36.76	5.35	65.8	857,644	830,896	2.39	2.47	91.1	2.31
June	6,895	240	1.41	40.48	4.67	50.1	1,020,410	988,673	2.67	2.75	91.4	2.39
July	10,032	355	1.47	41.45	5.14	70.8	1,189,145	1,151,122	2.97	3.07	91.3	2.55
August	11,033	398	1.75	48.48	5.42	76.5	1,205,876	1,163,920	2.95	3.06	91.4	2.52
Sept	10,741	381	2.07	58.30	5.17	84.6	968,648	935,630	3.07	3.18	91.1	2.55
October	8,844	317	1.98	55.43	5.69	92.5	795,915	770,111	3.13	3.23	90.3	2.51
November	9,365	333	2.26	63.59	5.69	82.0	718,522	695,273	3.02	3.12	90.4	2.47
December	9,945	355	2.07	57.94	5.43	82.3	729,545	705,358	3.96	4.10	89.9	2.82
Year 2017												
January	7,058	251	2.14	60.16	5.67	58.6	605,951	585,551	4.13	4.28	76.5	2.82
February	7,593	271	2.00	56.03	5.85	83.2	532,100	514,989	3.58	3.70	77.4	2.60
March	8,628	309	2.06	57.51	5.29	86.5	616,876	597,207	3.36	3.47	75.4	2.62
April	5,835	208	2.00	55.96	5.34	93.7	576,199	557,617	3.38	3.49	76.3	2.62
May	6,776	242	2.05	57.46	5.57	61.1	646,012	625,854	3.49	3.60	76.9	W
June	8,657	308	W	W	5.55	71.2	762,486	737,993	3.30	3.41	76.5	W
July	8,498	302	W	W	5.50	73.3	928,993	898,085	3.22	3.33	75.4	W
August	7,972	284	W	W	5.47	77.5	900,262	870,598	3.16	3.27	75.9	W
Sept	7,915	284	W	W	5.43	84.2	759,416	733,714	3.20	3.31	75.6	W
October	8,347	297	W	W	5.61	98.3	692,139	670,324	3.16	3.27	75.4	W
November	7,469	266	W	W	5.67	78.7	600,304	581,428	3.36	3.47	75.1	W
December	8,088	287	2.17	60.99	5.74	82.6	699,688	677,158	3.63	3.75	75.9	2.75
Year 2018												
January	7,009	248	2.38	67.41	5.31	60.1	778,041	753,163	5.03	5.19	82.0	3.50
February	7,769	277	2.43	68.09	5.49	83.0	688,537	667,090	3.61	3.72	85.6	2.79
March	7,841	281	2.54	70.89	5.54	99.3	748,917	724,656	3.18	3.29	84.6	W
April	6,564	232	2.56	72.38	6.09	78.4	705,836	684,139	3.13	3.23	83.5	2.58
May	4,344	152	2.41	68.58	6.09	64.6	818,069	792,700	3.04	3.14	82.4	2.56
June	7,382	260	2.73	77.61	5.97	70.0	927,681	898,443	3.11	3.21	84.1	2.61
July	8,307	293	W	W	5.73	72.4	1,156,050	1,120,080	3.29	3.40	82.9	W
Year to Date												
2016	67,015	2,383	1.37	38.65	5.35	74.4	6,200,599	6,000,889	2.65	2.74	90.7	2.39
2017	53,046	1,891	W	W	5.54	73.5	4,668,619	4,517,297	3.47	3.58	76.3	W
2018	49,215	1,743	W	W	5.72	74.6	5,823,131	5,640,271	3.47	3.58	83.5	W
Rolling 12 Months Ending in July												
2017	102,973	3,674	W	W	5.50	77.8	9,087,125	8,787,588	3.33	3.45	82.7	W
2018	89,006	3,161	W	W	5.66	78.5	9,474,939	9,173,494	3.40	3.51	80.3	W

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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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - July 2018

	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												
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
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	8,952,220	464,163	2.12	40.91	1.17	95.1	68,548	11,319	11.56	70.00	0.47	71.7
Year 2016												
January	750,914	39,064	2.17	41.71	1.18	85.5	6,190	1,022	7.88	47.74	0.44	58.8
February	722,024	37,129	2.16	41.95	1.23	98.2	5,814	955	6.92	42.16	0.41	64.1
March	685,422	34,609	2.19	43.49	1.34	110.9	5,223	851	6.69	41.07	0.40	77.5
April	612,742	30,953	2.19	43.39	1.31	107.4	6,897	1,126	8.35	51.19	0.37	106.4
May	655,166	33,408	2.17	42.60	1.25	98.5	6,742	1,114	9.12	55.16	0.40	91.7
June	775,536	39,900	2.15	41.79	1.24	85.9	5,511	908	10.51	63.80	0.44	70.9
July	849,005	43,981	2.17	41.99	1.15	81.1	7,117	1,142	11.54	71.91	0.52	66.7
August	925,332	47,610	2.17	42.19	1.19	88.3	6,737	1,090	9.15	56.57	0.51	66.2
Sept	851,137	43,822	2.18	42.34	1.18	97.6	5,514	896	9.00	55.39	0.49	79.2
October	842,651	43,693	2.12	40.99	1.16	110.5	5,205	851	9.80	59.94	0.52	73.4
November	805,502	41,615	2.13	41.25	1.20	117.8	6,780	1,106	9.80	60.07	0.48	88.2
December	781,447	40,423	2.13	41.17	1.21	85.4	5,565	925	10.71	64.43	0.44	65.2
Year 2017												
January	791,895	41,154	2.14	41.26	1.14	87.5	6,498	1,069	11.09	67.38	0.44	72.7
February	732,712	38,088	2.11	40.63	1.20	106.6	4,563	754	11.53	69.80	0.46	64.8
March	702,185	36,293	2.13	41.15	1.21	101.0	10,468	1,759	11.58	68.94	0.53	130.7
April	646,292	33,094	2.15	41.91	1.22	104.4	4,679	774	11.38	68.84	0.46	65.0
May	698,108	35,802	2.16	42.16	1.22	95.2	4,612	764	11.38	68.72	0.45	58.3
June	781,557	40,089	2.13	41.60	1.20	91.1	5,560	915	10.86	66.00	0.47	70.7
July	816,276	42,290	2.12	40.87	1.11	80.9	4,656	774	10.91	65.61	0.45	59.6
August	884,867	45,745	2.11	40.89	1.19	92.8	5,112	839	11.08	67.54	0.46	65.6
Sept	736,582	38,557	2.08	39.78	1.10	97.2	4,752	779	11.75	71.65	0.48	62.0
October	728,591	37,915	2.09	40.19	1.16	103.9	4,858	796	11.98	73.15	0.49	59.6
November	721,520	37,867	2.12	40.30	1.13	104.9	6,681	1,094	12.02	73.45	0.41	92.0
December	711,634	37,270	2.11	40.29	1.11	88.8	6,108	1,002	12.84	78.22	0.42	60.4
Year 2018												
January	690,227	36,292	2.08	39.65	1.11	75.6	12,569	2,096	13.91	83.48	0.43	48.0
February	638,278	33,348	2.10	40.24	1.16	97.5	8,008	1,303	12.43	76.46	0.46	118.0
March	700,041	36,379	2.10	40.33	1.17	111.9	5,017	827	13.19	79.98	0.36	77.4
April	606,452	31,464	2.12	40.91	1.22	102.9	5,034	826	13.61	83.01	0.36	73.0
May	662,814	34,228	2.10	40.66	1.23	96.5	6,271	1,028	14.30	87.26	0.29	78.8
June	693,365	36,117	2.10	40.34	1.20	84.6	5,985	986	14.68	89.15	0.28	72.8
July	739,991	38,748	2.10	40.19	1.15	79.8	5,128	836	14.29	87.66	0.27	71.2
Year to Date												
2016	5,050,808	259,044	2.17	42.36	1.24	93.1	43,494	7,118	8.81	53.83	0.43	74.2
2017	5,169,025	266,809	2.13	41.35	1.19	93.8	41,036	6,809	11.28	67.98	0.48	75.0
2018	4,731,167	246,577	2.10	40.31	1.18	90.6	48,013	7,902	13.75	83.57	0.36	68.7
Rolling 12 Months Ending in July												
2017	9,375,094	483,971	2.14	41.46	1.19	95.8	70,837	11,675	10.60	64.33	0.48	74.4
2018	8,514,362	443,931	2.10	40.31	1.16	93.3	75,525	12,411	13.10	79.73	0.40	68.1

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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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - July 2018 (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												
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
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	3,990,184	3,861,856	3.65	3.77	80.5	2.63
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,925	382,074	3.27	3.38	97.1	2.57
February	9,837	356	1.13	31.18	5.53	131.0	356,803	344,669	2.96	3.06	96.8	2.43
March	8,402	294	1.21	34.47	5.28	103.8	383,424	371,055	2.53	2.61	97.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,155	355,539	2.72	2.80	97.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	412,465	399,342	2.68	2.77	97.4	2.40
June	6,325	220	1.33	38.34	4.59	71.4	501,782	485,899	2.88	2.97	96.9	2.46
July	9,587	340	1.43	40.50	5.10	104.6	571,042	552,828	3.20	3.31	96.5	2.62
August	9,306	335	1.62	45.01	5.45	99.4	571,170	551,024	3.23	3.34	96.9	2.59
Sept	9,059	320	2.00	56.51	5.12	102.8	457,872	442,147	3.43	3.55	97.3	2.64
October	7,088	253	1.87	52.47	5.71	146.9	370,666	358,541	3.53	3.65	96.7	2.58
November	7,871	279	2.22	62.85	5.74	116.3	339,777	328,019	3.36	3.48	97.4	2.54
December	8,017	284	1.99	56.17	5.39	108.8	348,255	336,401	4.15	4.30	97.0	2.78
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,262	278,519	4.35	4.50	83.5	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,635	242,633	3.83	3.96	84.6	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,754	288,236	3.56	3.67	81.6	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,420	272,348	3.52	3.63	82.6	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,906	314,002	3.71	3.82	83.1	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,349	356,694	3.57	3.69	80.8	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,546	431,672	3.48	3.60	77.3	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,247	418,089	3.46	3.57	78.2	2.58
Sept	7,658	274	2.12	59.07	5.42	130.2	362,507	350,492	3.58	3.70	78.8	2.61
October	7,454	265	2.37	66.84	5.58	154.2	329,450	319,249	3.59	3.70	79.5	2.60
November	7,084	252	2.52	70.93	5.66	107.1	283,335	274,515	3.66	3.78	80.6	2.61
December	8,088	287	2.17	60.99	5.74	123.5	325,771	315,406	3.77	3.90	80.3	2.69
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	383,110	370,950	5.14	5.31	87.4	3.29
February	7,769	277	2.43	68.09	5.49	117.9	322,741	312,845	3.84	3.96	90.9	2.76
March	7,841	281	2.54	70.89	5.54	141.5	353,555	342,238	3.50	3.61	90.7	2.61
April	6,564	232	2.56	72.38	6.09	119.0	335,447	325,388	3.31	3.41	89.1	2.60
May	4,344	152	2.41	68.58	6.09	108.3	397,579	385,175	3.25	3.35	85.4	2.60
June	7,382	260	2.73	77.61	5.97	96.2	465,417	451,014	3.27	3.37	87.6	2.63
July	8,147	287	2.73	77.48	5.73	100.4	558,184	541,016	3.29	3.39	84.7	2.66
Year to Date												
2016	58,365	2,068	1.23	34.70	5.32	97.9	2,987,597	2,891,407	2.91	3.00	97.1	2.47
2017	52,521	1,872	2.07	58.21	5.54	112.5	2,256,874	2,184,104	3.69	3.81	81.5	2.65
2018	49,055	1,737	2.55	72.04	5.72	107.1	2,816,033	2,728,626	3.62	3.74	87.6	2.74
Rolling 12 Months Ending in July												
2017	93,862	3,342	2.01	56.50	5.51	112.0	4,344,614	4,200,235	3.60	3.72	88.3	2.64
2018	87,014	3,089	2.42	68.18	5.65	114.4	4,549,343	4,406,378	3.62	3.73	84.2	2.69

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
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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 the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - July 2018

	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												
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
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	3,006,924	161,228	1.91	35.67	1.64	91.2	23,608	4,003	12.64	74.53	0.46	69.1
Year 2016												
January	264,906	14,431	1.94	35.56	1.72	87.7	2,670	459	7.86	45.79	0.42	64.8
February	241,497	12,970	1.92	35.76	1.91	101.0	1,867	313	6.94	41.57	0.47	42.4
March	192,217	10,216	2.04	38.36	1.89	117.0	1,484	256	W	W	0.47	66.8
April	178,203	9,323	1.99	38.00	1.97	90.2	1,473	252	W	W	0.50	74.9
May	200,347	10,560	2.08	39.52	2.05	94.7	2,331	396	11.84	69.75	0.48	98.3
June	228,760	12,535	1.87	34.19	1.72	74.5	1,842	312	10.09	59.54	0.47	82.9
July	288,156	15,689	1.89	34.68	1.67	78.4	1,828	310	12.96	76.40	0.45	58.9
August	309,421	16,607	1.89	35.21	1.71	83.3	2,262	383	10.26	60.58	0.48	69.4
Sept	289,363	15,859	1.91	34.96	1.65	90.6	2,478	420	10.16	59.98	0.49	92.3
October	280,681	15,236	1.88	34.66	1.62	101.0	2,885	492	10.39	61.12	0.49	111.5
November	276,435	15,051	1.91	35.16	1.53	117.1	2,652	446	10.79	64.16	0.47	115.5
December	297,372	16,171	1.91	35.08	1.60	91.6	2,202	370	W	W	0.50	65.7
Year 2017												
January	293,070	15,606	1.93	36.35	1.59	94.6	2,679	456	13.98	82.08	0.47	92.8
February	250,099	13,304	1.90	35.74	1.60	108.7	1,438	241	W	W	0.50	63.4
March	247,658	13,058	1.93	36.69	1.75	101.4	1,344	231	12.02	69.90	0.44	80.3
April	231,929	12,350	1.97	37.09	1.66	97.9	1,383	233	W	W	0.44	78.7
May	234,471	12,642	1.99	36.90	1.67	95.0	1,718	293	W	W	0.45	71.9
June	235,473	12,689	2.00	37.14	1.68	85.0	1,507	258	W	W	0.42	62.6
July	253,594	13,865	1.97	36.04	1.55	78.8	1,739	297	W	W	0.48	57.2
August	274,367	14,784	1.94	35.96	1.64	88.9	1,649	280	W	W	0.43	69.4
Sept	254,384	13,609	1.84	34.37	1.64	90.0	1,491	258	W	W	0.42	59.9
October	246,724	13,227	1.83	34.24	1.61	96.5	2,321	393	11.66	68.89	0.50	108.0
November	240,378	12,958	1.79	33.17	1.64	87.0	2,432	415	13.07	76.69	0.56	103.6
December	244,777	13,136	1.84	34.33	1.69	80.0	3,906	648	15.88	95.71	0.43	46.4
Year 2018												
January	246,173	13,243	2.00	37.17	1.62	79.5	16,721	2,787	13.51	81.73	0.48	59.9
February	198,229	10,651	1.94	36.09	1.58	91.7	2,735	465	13.30	78.46	0.44	202.7
March	225,377	11,669	1.85	35.78	1.83	97.5	2,014	345	W	W	0.43	111.6
April	199,704	10,574	1.88	35.57	1.61	105.1	1,003	170	W	W	0.44	48.5
May	219,907	11,453	1.88	36.06	1.78	94.6	2,311	389	14.24	85.04	0.48	89.0
June	223,656	11,737	1.85	35.21	1.84	87.4	2,011	344	16.11	94.38	0.43	79.3
July	232,451	12,416	1.88	35.17	1.73	80.8	1,587	270	15.97	93.81	0.45	60.4
Year to Date												
2016	1,594,086	85,724	1.95	36.31	1.83	89.0	13,495	2,299	9.43	55.40	0.46	66.2
2017	1,746,294	93,514	1.96	36.54	1.64	93.5	11,808	2,010	12.05	70.82	0.46	71.9
2018	1,545,498	81,743	1.90	35.88	1.72	89.6	28,382	4,769	13.98	83.63	0.46	69.5
Rolling 12 Months Ending in July												
2017	3,199,565	172,439	1.93	35.85	1.63	94.2	24,289	4,121	W	W	0.47	79.4
2018	2,806,129	149,457	1.88	35.24	1.68	89.0	40,182	6,762	W	W	0.47	68.6

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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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - July 2018 (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												
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
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	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	W
2017	0	0	--	--	--	0.0	3,663,287	3,542,886	3.07	3.18	79.5	2.52
Year 2016												
January	1,305	49	W	W	5.70	182.6	366,954	353,940	2.80	2.91	93.1	W
February	1,314	47	W	W	5.44	97.1	322,866	312,018	2.43	2.52	93.5	W
March	1,337	48	W	W	5.37	65.3	353,542	341,974	1.89	1.95	94.0	W
April	1,203	44	W	W	5.30	88.5	345,599	334,192	2.07	2.14	94.3	W
May	506	18	W	W	5.28	30.6	384,972	373,040	2.04	2.11	94.6	W
June	348	12	W	W	5.32	20.5	457,044	442,942	2.41	2.49	94.4	W
July	223	8	W	W	5.67	12.1	552,956	535,139	2.66	2.75	94.4	W
August	1,510	55	W	W	5.24	77.3	569,120	549,584	2.62	2.71	94.3	W
Sept	1,483	53	W	W	5.43	90.7	448,820	433,556	2.61	2.70	94.1	W
October	1,549	56	W	W	5.59	78.5	362,466	350,675	2.60	2.69	94.0	W
November	1,294	47	W	W	5.43	83.4	313,867	304,227	2.59	2.67	93.5	W
December	1,501	55	W	W	5.50	84.2	313,521	303,233	3.83	3.95	93.6	W
Year 2017												
January	0	0	--	--	--	0.0	259,636	250,896	3.97	4.11	79.9	2.84
February	0	0	--	--	--	0.0	227,496	220,081	3.33	3.44	80.9	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	78.3	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.19	3.30	79.4	W
May	0	0	--	--	--	0.0	269,235	260,637	3.19	3.29	79.4	W
June	0	0	--	--	--	0.0	339,166	328,064	2.92	3.02	79.5	W
July	0	0	--	--	--	0.0	423,924	409,779	2.86	2.96	79.4	W
August	0	0	--	--	--	0.0	412,138	398,444	2.76	2.85	79.9	W
Sept	0	0	--	--	--	0.0	342,641	330,729	2.68	2.78	79.2	W
October	0	0	--	--	--	0.0	310,113	300,091	2.60	2.69	79.3	2.26
November	0	0	--	--	--	0.0	261,523	253,222	3.02	3.12	78.6	2.41
December	0	0	--	--	--	0.0	312,295	302,115	3.57	3.69	80.5	2.82
Year 2018												
January	0	0	--	--	--	0.0	325,769	315,170	5.25	5.42	85.1	3.96
February	0	0	--	--	--	0.0	305,540	295,788	3.34	3.45	90.7	2.77
March	0	0	--	--	--	0.0	334,931	323,699	2.85	2.95	88.7	W
April	0	0	--	--	--	0.0	309,434	299,510	2.93	3.03	87.4	W
May	0	0	--	--	--	0.0	357,868	346,719	2.77	2.86	86.7	2.43
June	0	0	--	--	--	0.0	397,445	384,414	2.87	2.96	87.5	2.49
July	0	0	--	--	--	0.0	530,691	513,623	3.34	3.45	87.1	2.85
Year to Date												
2016	6,236	226	2.50	68.83	5.44	59.2	2,783,934	2,693,243	2.35	2.43	94.1	W
2017	0	0	--	--	--	0.0	2,024,576	1,958,285	3.20	3.31	79.5	2.58
2018	0	0	--	--	--	0.0	2,561,679	2,478,923	3.32	3.44	87.5	2.79
Rolling 12 Months Ending in July												
2017	7,336	266	W	W	5.44	41.0	4,032,371	3,899,559	3.00	3.10	86.1	W
2018	0	0	--	--	--	0.0	4,200,389	4,063,524	3.16	3.26	84.2	W

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Notes:
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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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2008 - July 2018

	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												
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
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	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	W	W	2.99	4.0	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.2	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.7	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.9	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	92	4	W	W	3.09	8.2	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.5	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.6	0	0	--	--	--	0.0
December	214	9	W	W	3.05	12.5	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.4	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.4	0	0	--	--	--	0.0
March	104	5	W	W	3.02	7.8	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.2	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.6	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	4	0	W	W	2.77	0.3	0	0	--	--	--	0.0
Sept	72	3	W	W	2.96	6.7	0	0	--	--	--	0.0
October	35	2	W	W	2.96	3.5	0	0	--	--	--	0.0
November	13	1	W	W	3.04	1.2	0	0	--	--	--	0.0
December	89	4	W	W	3.01	6.4	0	0	--	--	--	0.0
Year 2018												
January	95	4	W	W	3.11	6.0	0	0	--	--	--	0.0
February	31	1	W	W	3.19	2.6	0	0	--	--	--	0.0
March	5	0	W	W	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
Year to Date												
2016	434	19	W	W	2.92	4.8	0	0	--	--	--	0.0
2017	336	15	W	W	3.00	4.1	0	0	--	--	--	0.0
2018	130	6	W	W	3.13	1.7	0	0	--	--	--	0.0
Rolling 12 Months Ending in July												
2017	1,190	52	W	W	3.06	8.2	0	0	--	--	--	0.0
2018	342	15	W	W	3.04	2.5	0	0	--	--	--	0.0

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

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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2008 - July 2018 (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												
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
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	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.1	W
2017	0	0	--	--	--	0.0	7,841	7,593	W	W	6.3	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.3	W
February	0	0	--	--	--	0.0	488	477	W	W	4.9	W
March	0	0	--	--	--	0.0	620	610	W	W	6.2	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.1	W
June	0	0	--	--	--	0.0	599	585	W	W	5.3	W
July	0	0	--	--	--	0.0	691	667	W	W	5.0	W
August	0	0	--	--	--	0.0	802	765	W	W	5.6	W
Sept	0	0	--	--	--	0.0	610	591	W	W	5.3	W
October	0	0	--	--	--	0.0	598	575	W	W	5.9	W
November	0	0	--	--	--	0.0	613	589	W	W	6.8	W
December	0	0	--	--	--	0.0	568	549	W	W	5.3	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.6	W
February	0	0	--	--	--	0.0	646	624	W	W	6.3	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.7	W
May	0	0	--	--	--	0.0	497	483	W	W	5.4	W
June	0	0	--	--	--	0.0	615	595	W	W	6.0	W
July	0	0	--	--	--	0.0	636	613	W	W	5.7	W
August	0	0	--	--	--	0.0	809	778	W	W	7.4	W
Sept	0	0	--	--	--	0.0	707	685	W	W	6.9	W
October	0	0	--	--	--	0.0	605	588	W	W	6.0	W
November	0	0	--	--	--	0.0	749	725	W	W	7.5	W
December	0	0	--	--	--	0.0	734	711	W	W	6.6	W
Year 2018												
January	0	0	--	--	--	0.0	844	818	W	W	7.2	W
February	0	0	--	--	--	0.0	709	688	W	W	6.7	W
March	0	0	--	--	--	0.0	768	746	W	W	7.2	W
April	0	0	--	--	--	0.0	732	713	W	W	7.4	W
May	0	0	--	--	--	0.0	776	758	W	W	8.0	W
June	0	0	--	--	--	0.0	670	650	W	W	6.5	W
July	0	0	--	--	--	0.0	790	760	W	W	6.3	W
Year to Date												
2016	0	0	--	--	--	0.0	4,815	4,697	W	W	6.4	W
2017	0	0	--	--	--	0.0	4,237	4,105	W	W	5.9	W
2018	0	0	--	--	--	0.0	5,290	5,134	W	W	7.0	W
Rolling 12 Months Ending in July												
2017	0	0	--	--	--	0.0	7,427	7,173	W	W	5.8	W
2018	0	0	--	--	--	0.0	8,893	8,622	W	W	7.0	W

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

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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - July 2018

	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												
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
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	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	W	W	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	183,058	8,703	W	W	1.29	64.8	1,850	297	11.18	69.57	1.42	16.2
Year 2016												
January	19,357	897	W	W	1.36	64.2	237	38	11.34	71.47	1.49	18.7
February	17,418	814	W	W	1.42	63.5	342	55	8.70	53.76	1.16	19.8
March	19,181	888	W	W	1.29	69.7	205	33	W	W	1.18	18.5
April	16,048	739	W	W	1.43	68.7	222	36	W	W	1.36	20.8
May	16,376	761	2.67	57.42	1.39	64.6	158	26	11.79	72.81	1.49	11.7
June	18,607	865	2.66	57.25	1.25	69.6	259	42	10.38	64.15	1.45	21.3
July	18,586	875	2.64	56.18	1.23	66.2	85	14	11.10	68.65	1.14	7.1
August	19,629	929	W	W	1.16	71.9	119	19	11.84	73.14	1.11	12.4
Sept	16,052	753	W	W	1.20	65.1	162	27	11.67	71.25	1.12	16.5
October	18,491	879	W	W	1.25	78.1	297	48	10.34	63.78	1.20	25.7
November	14,936	701	W	W	1.27	64.1	283	47	10.57	63.80	1.30	30.7
December	16,067	759	W	W	1.33	59.3	172	28	W	W	1.12	18.0
Year 2017												
January	14,872	698	W	W	1.31	54.1	128	21	11.64	72.27	1.06	12.7
February	15,014	702	W	W	1.10	64.5	121	19	W	W	1.36	16.3
March	17,051	819	W	W	1.28	69.8	178	29	10.66	66.36	1.22	21.7
April	15,389	724	W	W	1.17	67.9	160	26	W	W	1.27	17.8
May	15,645	762	W	W	1.10	69.4	155	25	W	W	1.21	16.0
June	15,163	720	W	W	1.32	65.8	142	23	W	W	1.11	15.0
July	14,992	721	2.47	51.34	1.23	68.8	95	15	W	W	1.30	12.2
August	15,734	738	W	W	1.30	69.3	110	18	W	W	1.55	12.6
Sept	14,117	677	W	W	1.10	65.7	151	24	W	W	1.51	19.3
October	14,951	704	W	W	1.30	61.3	149	24	11.43	71.09	1.58	16.4
November	14,533	694	W	W	1.38	60.8	199	32	11.67	72.03	1.71	19.3
December	15,598	744	W	W	1.87	63.1	263	42	11.14	69.14	1.79	16.1
Year 2018												
January	15,278	735	W	W	1.12	57.9	408	65	12.64	79.32	1.32	16.1
February	13,828	662	W	W	1.26	58.5	187	30	11.38	71.32	1.20	20.2
March	15,083	722	W	W	1.24	61.8	234	38	W	W	1.32	23.5
April	13,037	622	2.53	53.03	1.29	59.7	153	24	W	W	1.23	17.6
May	14,112	684	2.53	52.15	1.18	64.0	149	24	14.33	87.27	1.47	16.0
June	14,097	679	2.50	51.83	1.23	67.7	107	17	13.54	84.39	1.48	8.4
July	14,451	703	2.42	49.82	1.26	69.7	138	22	14.64	89.87	1.42	12.7
Year to Date												
2016	125,573	5,838	W	W	1.33	66.6	1,508	244	9.97	61.67	1.32	16.9
2017	108,125	5,145	W	W	1.22	65.5	978	157	11.14	69.44	1.22	15.9
2018	99,886	4,807	W	W	1.22	62.5	1,375	221	12.98	80.94	1.32	16.0
Rolling 12 Months Ending in July												
2017	193,301	9,165	W	W	1.23	66.4	2,011	325	W	W	1.20	18.1
2018	174,819	8,365	W	W	1.30	63.1	2,247	361	W	W	1.46	16.2

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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, 2008 - July 2018 (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												
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
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	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.2	744,034	721,358	W	W	59.6	W
2017	2,356	85	W	W	5.84	8.7	659,116	638,186	W	W	52.1	W
Year 2016												
January	400	15	W	W	5.94	15.3	63,059	61,034	W	W	59.0	W
February	122	4	W	W	6.10	4.3	56,120	54,342	W	W	57.2	W
March	574	21	W	W	5.88	23.8	60,020	58,279	W	W	58.9	W
April	669	25	W	W	5.81	31.0	60,005	58,224	W	W	61.3	W
May	206	8	W	W	5.64	7.0	59,608	57,927	W	W	59.3	W
June	222	8	W	W	5.94	7.0	60,985	59,247	W	W	58.7	W
July	222	8	W	W	5.94	7.0	64,456	62,488	W	W	58.3	W
August	217	8	W	W	5.81	7.2	64,784	62,548	W	W	57.7	W
Sept	200	8	W	W	5.64	9.6	61,346	59,335	W	W	58.7	W
October	207	8	W	W	5.66	7.9	62,185	60,320	W	W	60.7	W
November	200	8	W	W	5.47	7.0	64,265	62,438	W	W	63.4	W
December	427	16	W	W	5.99	15.4	67,201	65,176	W	W	62.7	W
Year 2017												
January	0	0	--	--	--	0.0	57,392	55,497	W	W	52.1	W
February	0	0	--	--	--	0.0	53,322	51,652	W	W	53.4	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	51.6	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	52.2	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	51.3	W
June	271	9	W	W	5.75	9.5	54,356	52,640	W	W	52.5	W
July	253	9	W	W	5.85	10.1	57,887	56,022	W	W	52.4	W
August	296	11	W	W	5.85	12.0	55,068	53,287	W	W	51.8	W
Sept	257	9	W	W	5.85	11.9	53,561	51,809	W	W	52.7	W
October	893	32	W	W	5.85	38.1	51,971	50,395	W	W	50.5	W
November	386	14	W	W	5.85	17.6	54,697	52,966	W	W	52.0	W
December	0	0	--	--	--	0.0	60,888	58,925	W	W	52.1	W
Year 2018												
January	0	0	--	--	--	0.0	68,317	66,225	W	W	58.9	W
February	0	0	--	--	--	0.0	59,546	57,769	W	W	58.2	W
March	0	0	--	--	--	0.0	59,663	57,973	W	W	55.8	W
April	0	0	--	--	--	0.0	60,223	58,528	W	W	57.4	W
May	0	0	--	--	--	0.0	61,846	60,048	W	W	58.9	W
June	0	0	--	--	--	0.0	64,149	62,365	W	W	59.9	W
July	160	6	W	W	5.83	8.4	66,384	64,680	W	W	59.0	W
Year to Date												
2016	2,414	88	W	W	5.87	12.6	424,253	411,542	W	W	58.9	W
2017	525	19	W	W	5.80	3.2	382,931	370,804	W	W	52.2	W
2018	160	6	W	W	5.83	1.3	440,129	427,587	W	W	58.3	W
Rolling 12 Months Ending in July												
2017	1,774	66	W	W	5.77	6.1	702,712	680,620	W	W	55.7	W
2018	1,991	72	W	W	5.85	8.2	716,314	694,969	W	W	55.6	W

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

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

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, July 2018 and 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	41	3	NM	0	0	41	3	0	0	0	0
Connecticut	38	0	--	0	0	38	0	0	0	0	0
Maine	3	3	-5.2%	0	0	3	3	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,417	1,526	-7.2%	0	0	1,417	1,516	0	0	0	11
New Jersey	24	56	-57.0%	0	0	24	56	0	0	0	0
New York	28	2	NM	0	0	28	2	0	0	0	0
Pennsylvania	1,365	1,468	-7.1%	0	0	1,365	1,458	0	0	0	11
East North Central	11,640	11,587	0.5%	6,757	7,211	4,733	4,220	0	0	149	156
Illinois	3,370	3,565	-5.5%	460	729	2,761	2,681	0	0	149	155
Indiana	2,575	2,304	12.0%	2,384	2,182	191	122	0	0	0	0
Michigan	2,087	2,013	3.6%	2,069	1,959	18	53	0	0	0	1
Ohio	1,961	1,920	2.2%	197	556	1,764	1,364	0	0	0	0
Wisconsin	1,647	1,786	-7.7%	1,647	1,786	0	0	0	0	0	0
West North Central	10,235	10,779	-5.0%	9,889	10,460	0	0	0	0	347	319
Iowa	1,244	1,578	-21.0%	1,036	1,381	0	0	0	0	207	197
Kansas	1,214	1,106	9.8%	1,214	1,106	0	0	0	0	0	0
Minnesota	986	1,040	-5.2%	926	981	0	0	0	0	60	59
Missouri	3,297	3,423	-3.7%	3,297	3,423	0	0	0	0	0	0
Nebraska	1,260	1,363	-7.6%	1,181	1,301	0	0	0	0	80	63
North Dakota	2,093	2,142	-2.3%	2,093	2,142	0	0	0	0	0	0
South Dakota	142	127	12.0%	142	127	0	0	0	0	0	0
South Atlantic	6,487	7,575	-14.0%	5,606	6,715	817	783	0	0	64	76
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	893	1,311	-32.0%	893	1,291	0	0	0	0	0	21
Georgia	1,295	1,424	-9.0%	1,283	1,417	0	0	0	0	12	7
Maryland	329	231	43.0%	0	0	317	215	0	0	12	15
North Carolina	1,057	1,272	-17.0%	1,037	1,254	2	2	0	0	18	17
South Carolina	463	568	-18.0%	458	568	0	0	0	0	5	0
Virginia	442	468	-5.5%	372	419	53	33	0	0	17	16
West Virginia	2,008	2,300	-13.0%	1,563	1,767	445	534	0	0	0	0
East South Central	5,106	5,938	-14.0%	4,720	5,598	318	267	0	0	69	73
Alabama	1,404	1,686	-17.0%	1,404	1,686	0	0	0	0	0	0
Kentucky	2,626	2,762	-4.9%	2,626	2,762	0	0	0	0	0	0
Mississippi	489	497	-1.6%	171	231	318	267	0	0	0	0
Tennessee	587	994	-41.0%	518	920	0	0	0	0	69	73
West South Central	9,289	11,110	-16.0%	4,996	5,426	4,274	5,663	0	0	19	22
Arkansas	1,247	1,376	-9.4%	1,044	1,173	199	197	0	0	4	6
Louisiana	610	636	-4.1%	413	391	197	245	0	0	0	0
Oklahoma	766	1,005	-24.0%	636	900	115	90	0	0	14	15
Texas	6,666	8,092	-18.0%	2,903	2,961	3,763	5,131	0	0	0	0
Mountain	7,210	7,820	-7.8%	6,658	6,866	552	935	0	0	0	20
Arizona	1,587	1,421	12.0%	1,587	1,421	0	0	0	0	0	0
Colorado	1,205	1,433	-16.0%	1,205	1,433	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	421	831	-49.0%	26	24	394	806	0	0	0	0
Nevada	173	106	63.0%	96	61	77	45	0	0	0	0
New Mexico	820	971	-16.0%	820	971	0	0	0	0	0	0
Utah	1,051	1,051	0.0%	1,015	994	37	38	0	0	0	20
Wyoming	1,954	2,007	-2.7%	1,909	1,962	44	45	0	0	0	0
Pacific Contiguous	366	401	-8.8%	110	0	201	357	0	0	55	44
California	55	44	25.0%	0	0	0	0	0	0	55	44
Oregon	110	0	--	110	0	0	0	0	0	0	0
Washington	201	357	-44.0%	0	0	201	357	0	0	0	0
Pacific Noncontiguous	76	136	-44.0%	13	14	63	123	0	0	0	0
Alaska	13	14	-6.3%	13	14	0	0	0	0	0	0
Hawaii	63	123	-49.0%	0	0	63	123	0	0	0	0
U.S. Total	51,868	56,876	-8.8%	38,748	42,290	12,416	13,865	0	0	703	721

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W = Withheld to avoid disclosure of individual company data.

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) July 2018 and 2017 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	187	168	11.0%	45	45	142	124	0	0	0	0
Connecticut	105	0	--	0	0	105	0	0	0	0	0
Maine	37	37	0.0%	0	0	37	37	0	0	0	0
Massachusetts	0	87	-100.0%	0	0	0	87	0	0	0	0
New Hampshire	45	45	0.7%	45	45	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	11,204	11,710	-4.3%	0	0	11,141	11,510	0	0	63	200
New Jersey	344	375	-8.5%	0	0	344	375	0	0	0	0
New York	228	219	4.1%	0	0	220	97	0	0	9	123
Pennsylvania	10,632	11,115	-4.3%	0	0	10,577	11,038	0	0	55	77
East North Central	75,606	78,467	-3.6%	44,792	47,495	29,685	29,826	0	0	1,130	1,146
Illinois	23,728	23,330	1.7%	4,492	4,740	18,150	17,490	0	0	1,086	1,099
Indiana	16,982	16,402	3.5%	15,825	15,572	1,156	830	0	0	0	0
Michigan	11,216	12,624	-11.0%	11,114	12,474	98	143	0	0	4	6
Ohio	13,060	15,155	-14.0%	2,780	3,792	10,280	11,363	0	0	0	0
Wisconsin	10,621	10,957	-3.1%	10,581	10,917	0	0	0	0	40	40
West North Central	64,091	64,857	-1.2%	62,145	62,871	0	0	6	15	1,940	1,972
Iowa	8,165	8,379	-2.6%	6,835	7,100	0	0	0	0	1,330	1,279
Kansas	6,652	6,350	4.8%	6,652	6,350	0	0	0	0	0	0
Minnesota	6,472	6,997	-7.5%	6,353	6,746	0	0	0	0	119	251
Missouri	20,758	21,402	-3.0%	20,752	21,387	0	0	6	15	0	0
Nebraska	7,207	7,728	-6.7%	6,717	7,286	0	0	0	0	490	442
North Dakota	13,867	13,227	4.8%	13,867	13,227	0	0	0	0	0	0
South Dakota	970	775	25.0%	970	775	0	0	0	0	0	0
South Atlantic	44,033	52,470	-16.0%	37,439	46,185	6,043	5,680	0	0	552	604
Delaware	0	200	-100.0%	0	0	0	200	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,539	9,138	-28.0%	6,489	9,030	0	13	0	0	50	95
Georgia	7,795	9,979	-22.0%	7,715	9,920	0	0	0	0	81	60
Maryland	2,476	2,244	10.0%	0	0	2,359	2,128	0	0	117	116
North Carolina	6,539	7,943	-18.0%	6,351	7,724	39	31	0	0	149	188
South Carolina	3,264	4,014	-19.0%	3,255	3,995	0	0	0	0	9	19
Virginia	2,828	3,500	-19.0%	2,371	3,148	310	225	0	0	147	128
West Virginia	14,593	15,452	-5.6%	11,258	12,368	3,335	3,084	0	0	0	0
East South Central	33,184	36,858	-10.0%	30,844	34,652	1,795	1,639	0	0	545	567
Alabama	9,355	9,177	1.9%	9,355	9,177	0	0	0	0	0	0
Kentucky	17,709	19,994	-11.0%	17,709	19,994	0	0	0	0	0	0
Mississippi	2,696	2,366	14.0%	901	727	1,795	1,639	0	0	0	0
Tennessee	3,424	5,322	-36.0%	2,879	4,754	0	0	0	0	545	567
West South Central	57,236	68,485	-16.0%	30,740	30,576	26,279	37,652	0	0	218	256
Arkansas	8,665	7,191	21.0%	7,032	6,606	1,580	542	0	0	53	44
Louisiana	3,972	5,001	-21.0%	2,561	3,048	1,411	1,953	0	0	0	0
Oklahoma	5,212	5,256	-0.8%	4,474	4,469	573	575	0	0	165	212
Texas	39,387	51,036	-23.0%	16,672	16,454	22,715	34,583	0	0	0	0
Mountain	45,405	49,976	-9.1%	40,345	44,731	5,060	5,196	0	0	0	49
Arizona	9,469	9,051	4.6%	9,469	9,051	0	0	0	0	0	0
Colorado	8,355	9,164	-8.8%	8,355	9,164	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,331	4,482	-3.4%	119	161	4,213	4,321	0	0	0	0
Nevada	493	394	25.0%	182	61	311	333	0	0	0	0
New Mexico	3,840	6,399	-40.0%	3,840	6,399	0	0	0	0	0	0
Utah	6,528	7,063	-7.6%	6,289	6,779	239	236	0	0	0	49
Wyoming	12,389	13,423	-7.7%	12,093	13,117	297	307	0	0	0	0
Pacific Contiguous	1,656	1,980	-16.0%	124	165	1,173	1,464	0	0	359	351
California	359	351	2.3%	0	0	0	0	0	0	359	351
Oregon	124	165	-25.0%	124	165	0	0	0	0	0	0
Washington	1,173	1,464	-20.0%	0	0	1,173	1,464	0	0	0	0
Pacific Noncontiguous	530	512	3.6%	103	89	427	423	0	0	0	0
Alaska	103	89	16.0%	103	89	0	0	0	0	0	0
Hawaii	427	423	1.0%	0	0	427	423	0	0	0	0
U.S. Total	333,133	365,482	-8.9%	246,577	266,809	81,743	93,514	6	15	4,807	5,145

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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 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, July 2018 and 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	3	4	-17.0%	1	0	3	4	0	0	0	0
Connecticut	2	2	8.2%	0	0	2	2	0	0	0	0
Maine	0	2	-85.0%	0	0	0	2	0	0	0	0
Massachusetts	0	0	39.0%	0	0	0	0	0	0	0	0
New Hampshire	1	0	471.0%	1	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	43	19	132.0%	0	0	33	12	0	0	10	6
New Jersey	1	0	143.0%	0	0	1	0	0	0	0	0
New York	6	3	74.0%	0	0	2	3	0	0	4	0
Pennsylvania	37	15	145.0%	0	0	30	9	0	0	7	6
East North Central	39	57	-31.0%	22	30	16	26	0	0	1	2
Illinois	6	4	66.0%	0	0	6	4	0	0	0	0
Indiana	17	15	11.0%	17	15	0	0	0	0	0	0
Michigan	5	7	-31.0%	5	6	0	0	0	0	0	1
Ohio	12	29	-59.0%	1	5	9	23	0	0	1	1
Wisconsin	0	3	-100.0%	0	3	0	0	0	0	0	0
West North Central	28	13	120.0%	28	13	0	0	0	0	0	0
Iowa	7	3	163.0%	7	3	0	0	0	0	0	0
Kansas	7	2	284.0%	7	2	0	0	0	0	0	0
Minnesota	2	3	-15.0%	2	3	0	0	0	0	0	0
Missouri	9	3	167.0%	9	3	0	0	0	0	0	0
Nebraska	0	1	-100.0%	0	1	0	0	0	0	0	0
North Dakota	3	2	66.0%	3	2	0	0	0	0	0	0
South Dakota	1	0	--	1	0	0	0	0	0	0	0
South Atlantic	186	317	-41.0%	146	251	30	59	0	0	11	6
Delaware	4	4	0.1%	0	0	4	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	24	138	-83.0%	18	136	0	0	0	0	7	2
Georgia	6	17	-65.0%	5	16	0	0	0	0	1	1
Maryland	7	54	-88.0%	0	0	7	54	0	0	0	0
North Carolina	17	13	27.0%	14	12	0	0	0	0	3	2
South Carolina	3	8	-61.0%	3	8	0	0	0	0	0	0
Virginia	115	65	77.0%	95	62	20	1	0	0	0	1
West Virginia	11	17	-37.0%	11	17	0	0	0	0	0	0
East South Central	31	30	1.5%	31	29	0	0	0	0	0	1
Alabama	12	4	202.0%	12	4	0	0	0	0	0	0
Kentucky	10	14	-30.0%	10	14	0	0	0	0	0	0
Mississippi	1	1	-25.0%	1	1	0	0	0	0	0	0
Tennessee	9	11	-26.0%	9	11	0	0	0	0	0	1
West South Central	20	20	2.5%	15	7	6	13	0	0	0	0
Arkansas	0	7	-100.0%	0	2	0	5	0	0	0	0
Louisiana	2	0	--	2	0	0	0	0	0	0	0
Oklahoma	5	0	--	5	0	0	0	0	0	0	0
Texas	13	13	3.8%	8	5	6	8	0	0	0	0
Mountain	32	34	-5.3%	27	30	5	4	0	0	0	0
Arizona	11	12	-6.6%	11	12	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	5	3	33.0%	0	0	5	3	0	0	0	0
Nevada	3	4	-25.0%	2	3	0	1	0	0	0	0
New Mexico	5	4	12.0%	5	4	0	0	0	0	0	0
Utah	2	2	-19.0%	2	2	0	0	0	0	0	0
Wyoming	8	9	-15.0%	8	9	0	0	0	0	0	0
Pacific Contiguous	4	8	-56.0%	0	3	4	5	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	4	5	-25.0%	0	0	4	5	0	0	0	0
Pacific Noncontiguous	741	584	27.0%	566	411	175	173	0	0	0	0
Alaska	2	0	448.0%	2	0	0	0	0	0	0	0
Hawaii	739	583	27.0%	564	410	175	173	0	0	0	0
U.S. Total	1,129	1,086	3.9%	836	774	270	297	0	0	22	15

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

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) July 2018 and 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	1,142	196	483.0%	116	9	1,027	187	0	0	0	0
Connecticut	185	22	747.0%	0	0	185	22	0	0	0	0
Maine	254	87	192.0%	0	0	254	87	0	0	0	0
Massachusetts	420	78	437.0%	12	0	408	78	0	0	0	0
New Hampshire	183	9	NM	104	9	80	0	0	0	0	0
Rhode Island	100	0	--	0	0	100	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,695	486	454.0%	839	172	1,798	260	0	0	58	54
New Jersey	176	3	NM	0	0	176	3	0	0	0	0
New York	1,905	276	590.0%	839	172	1,050	86	0	0	15	18
Pennsylvania	613	208	196.0%	0	0	571	171	0	0	43	37
East North Central	457	435	5.1%	254	257	187	163	0	0	17	16
Illinois	49	52	-6.5%	2	2	46	50	0	0	0	0
Indiana	104	116	-10.0%	103	116	1	0	0	0	0	0
Michigan	88	68	30.0%	84	61	0	0	0	0	4	7
Ohio	175	175	-0.1%	34	54	129	113	0	0	12	9
Wisconsin	42	25	69.0%	31	25	11	0	0	0	0	0
West North Central	298	233	28.0%	298	233	0	0	0	0	0	0
Iowa	80	58	38.0%	80	58	0	0	0	0	0	0
Kansas	55	51	9.0%	55	51	0	0	0	0	0	0
Minnesota	17	17	-1.9%	17	17	0	0	0	0	0	0
Missouri	100	47	112.0%	100	47	0	0	0	0	0	0
Nebraska	3	1	239.0%	3	1	0	0	0	0	0	0
North Dakota	38	55	-30.0%	38	55	0	0	0	0	0	0
South Dakota	4	5	-12.0%	4	5	0	0	0	0	0	0
South Atlantic	2,759	2,089	32.0%	1,949	1,812	666	195	0	0	144	82
Delaware	78	11	585.0%	0	0	78	11	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	294	1,288	-77.0%	264	1,270	0	0	0	0	30	19
Georgia	169	112	51.0%	113	89	25	3	0	0	30	19
Maryland	394	122	223.0%	0	0	394	122	0	0	0	0
North Carolina	662	171	287.0%	631	151	0	1	0	0	30	19
South Carolina	266	69	285.0%	191	56	43	0	0	0	33	13
Virginia	727	213	241.0%	602	144	105	58	0	0	21	12
West Virginia	168	102	64.0%	148	102	20	0	0	0	0	0
East South Central	233	233	-0.1%	173	224	58	4	0	0	2	5
Alabama	110	29	277.0%	52	25	58	4	0	0	0	0
Kentucky	71	105	-33.0%	71	105	0	0	0	0	0	0
Mississippi	12	10	19.0%	12	10	0	0	0	0	0	0
Tennessee	40	88	-55.0%	38	84	0	0	0	0	2	5
West South Central	114	141	-19.0%	89	55	26	86	0	0	0	0
Arkansas	29	58	-51.0%	22	18	7	40	0	0	0	0
Louisiana	7	0	--	7	0	0	0	0	0	0	0
Oklahoma	21	3	540.0%	21	3	0	0	0	0	0	0
Texas	57	80	-28.0%	39	34	18	46	0	0	0	0
Mountain	176	205	-14.0%	160	188	17	18	0	0	0	0
Arizona	59	43	36.0%	59	43	0	0	0	0	0	0
Colorado	4	1	287.0%	4	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	13	11	12.0%	0	0	13	11	0	0	0	0
Nevada	11	11	-7.7%	8	7	3	4	0	0	0	0
New Mexico	14	40	-65.0%	14	40	0	0	0	0	0	0
Utah	43	44	-2.5%	42	42	1	2	0	0	0	0
Wyoming	33	55	-39.0%	33	55	0	0	0	0	0	0
Pacific Contiguous	7	22	-70.0%	0	10	7	12	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	10	-100.0%	0	10	0	0	0	0	0	0
Washington	7	12	-44.0%	0	0	7	12	0	0	0	0
Pacific Noncontiguous	5,010	4,934	1.5%	4,025	3,848	985	1,086	0	0	0	0
Alaska	2	1	117.0%	2	1	0	0	0	0	0	0
Hawaii	5,008	4,933	1.5%	4,023	3,847	985	1,086	0	0	0	0
U.S. Total	12,891	8,976	44.0%	7,902	6,809	4,769	2,010	0	0	221	157

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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, July 2018 and 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
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	60	50	19.0%	60	50	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	54	44	22.0%	54	44	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	6	6	-1.2%	6	6	0	0	0	0	0	0
West North Central	6	9	-34.0%	0	0	0	0	0	0	6	9
Iowa	6	9	-34.0%	0	0	0	0	0	0	6	9
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	94	88	7.1%	94	88	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	94	88	7.1%	94	88	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	133	155	-14.0%	133	155	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	133	155	-14.0%	133	155	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	293	302	-2.9%	287	292	0	0	0	0	6	9

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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) July 2018 and 2017 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 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	363	293	24.0%	363	293	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	328	272	20.0%	328	272	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	35	21	64.0%	35	21	0	0	0	0	0	0
West North Central	6	19	-68.0%	0	0	0	0	0	0	6	19
Iowa	6	19	-68.0%	0	0	0	0	0	0	6	19
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	544	370	47.0%	544	370	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	544	370	47.0%	544	370	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	117	-100.0%	0	117	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	117	-100.0%	0	117	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	830	1,092	-24.0%	830	1,092	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	830	1,092	-24.0%	830	1,092	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,743	1,891	-7.8%	1,737	1,872	0	0	0	0	6	19

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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, July 2018 and 2017
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	37,288	27,653	35.0%	323	179	36,965	27,474	0	0	0	0
Connecticut	13,091	9,890	32.0%	0	0	13,091	9,890	0	0	0	0
Maine	1,400	6	NM	0	0	1,400	6	0	0	0	0
Massachusetts	14,983	13,345	12.0%	173	177	14,810	13,167	0	0	0	0
New Hampshire	4,188	2,926	43.0%	150	1	4,038	2,925	0	0	0	0
Rhode Island	3,626	1,486	144.0%	0	0	3,626	1,486	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	126,965	97,759	30.0%	13,089	10,618	112,989	86,744	0	0	887	397
New Jersey	29,684	16,020	85.0%	0	0	29,684	16,020	0	0	0	0
New York	43,491	36,831	18.0%	13,089	10,618	29,759	25,971	0	0	642	241
Pennsylvania	53,790	44,909	20.0%	0	0	53,546	44,753	0	0	245	156
East North Central	86,714	62,801	38.0%	31,779	24,005	53,255	37,454	591	446	1,088	895
Illinois	11,127	8,154	36.0%	1,286	36	9,835	8,117	0	0	6	2
Indiana	16,962	11,163	52.0%	7,231	9,035	9,732	2,129	0	0	0	0
Michigan	20,852	18,650	12.0%	7,618	5,358	12,194	12,510	591	446	449	336
Ohio	25,363	18,064	40.0%	5,320	4,423	19,616	13,315	0	0	427	326
Wisconsin	12,411	6,770	83.0%	10,325	5,154	1,879	1,384	0	0	207	231
West North Central	18,887	7,104	166.0%	15,923	6,178	2,222	208	169	167	574	551
Iowa	7,084	2,487	185.0%	6,524	1,972	0	0	0	0	560	515
Kansas	1,968	2,434	-19.0%	1,968	2,434	0	0	0	0	0	0
Minnesota	4,495	336	NM	4,259	91	222	208	1	1	13	36
Missouri	4,893	1,197	309.0%	2,725	1,030	2,000	0	168	166	0	0
Nebraska	372	579	-36.0%	372	579	0	0	0	0	0	0
North Dakota	75	71	5.0%	75	71	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	259,891	217,780	19.0%	211,391	181,590	45,284	33,290	0	0	3,216	2,900
Delaware	2,582	3,307	-22.0%	0	0	2,582	3,307	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	122,660	109,948	12.0%	116,130	108,214	6,130	1,578	0	0	400	157
Georgia	33,896	29,518	15.0%	25,895	23,164	7,265	5,590	0	0	736	763
Maryland	10,298	4,804	114.0%	3,270	0	6,791	4,634	0	0	237	170
North Carolina	34,540	24,271	42.0%	30,880	20,954	3,447	3,023	0	0	213	294
South Carolina	19,644	11,000	79.0%	14,047	9,148	5,550	1,795	0	0	46	56
Virginia	34,542	32,976	4.7%	21,018	19,945	12,627	12,288	0	0	896	742
West Virginia	1,730	1,957	-12.0%	149	165	893	1,075	0	0	687	716
East South Central	98,948	85,695	15.0%	65,076	56,986	32,139	26,968	0	0	1,733	1,741
Alabama	41,277	36,614	13.0%	13,409	12,653	27,868	23,961	0	0	0	0
Kentucky	10,098	7,166	41.0%	9,129	6,677	969	489	0	0	0	0
Mississippi	35,758	32,680	9.4%	32,456	30,163	3,302	2,518	0	0	0	0
Tennessee	11,815	9,234	28.0%	10,082	7,493	0	0	0	0	1,733	1,741
West South Central	309,566	248,182	25.0%	100,138	63,578	154,686	137,788	0	0	54,743	46,817
Arkansas	13,012	9,180	42.0%	11,763	1	1,090	9,048	0	0	159	131
Louisiana	46,395	42,434	9.3%	26,273	22,092	3,279	2,771	0	0	16,843	17,571
Oklahoma	37,218	29,870	25.0%	23,665	18,185	13,179	11,453	0	0	375	232
Texas	212,941	166,699	28.0%	38,437	23,300	137,139	114,516	0	0	37,366	28,883
Mountain	89,303	79,697	12.0%	72,513	62,283	16,748	17,357	0	0	41	57
Arizona	35,832	33,657	6.5%	24,195	20,611	11,637	13,046	0	0	0	0
Colorado	13,053	11,622	12.0%	10,861	9,810	2,192	1,811	0	0	0	0
Idaho	1,373	0	--	1,373	0	0	0	0	0	0	0
Montana	231	319	-28.0%	231	319	0	0	0	0	0	0
Nevada	23,602	21,285	11.0%	23,602	21,285	0	0	0	0	0	0
New Mexico	7,722	8,147	-5.2%	4,804	5,750	2,918	2,397	0	0	0	0
Utah	7,260	4,446	63.0%	7,219	4,289	0	100	0	0	41	57
Wyoming	229	221	3.6%	228	219	1	2	0	0	0	0
Pacific Contiguous	92,501	71,357	30.0%	30,767	26,198	59,335	42,495	0	0	2,400	2,664
California	73,814	61,754	20.0%	21,715	21,737	49,699	37,353	0	0	2,400	2,664
Oregon	11,081	6,776	64.0%	4,304	1,634	6,776	5,142	0	0	0	0
Washington	7,607	2,827	169.0%	4,748	2,827	2,859	0	0	0	0	0
Pacific Noncontiguous	18	57	-69.0%	18	57	0	0	0	0	0	0
Alaska	18	57	-69.0%	18	57	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,120,080	898,085	25.0%	541,016	431,672	513,623	409,779	760	613	64,680	56,022

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

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

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) July 2018 and 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	168,539	154,274	9.2%	477	620	168,062	153,655	0	0	0	0
Connecticut	67,413	55,077	22.0%	0	0	67,413	55,077	0	0	0	0
Maine	5,825	22	NM	0	0	5,825	22	0	0	0	0
Massachusetts	67,891	77,096	-12.0%	278	378	67,613	76,718	0	0	0	0
New Hampshire	10,098	14,263	-29.0%	199	241	9,899	14,021	0	0	0	0
Rhode Island	17,311	7,816	121.0%	0	0	17,311	7,816	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	602,986	487,915	24.0%	51,273	48,335	545,594	437,377	0	0	6,119	2,204
New Jersey	140,669	87,171	61.0%	0	0	140,669	87,171	0	0	0	0
New York	188,569	184,463	2.2%	51,273	48,335	132,934	135,204	0	0	4,361	925
Pennsylvania	273,748	216,281	27.0%	0	0	271,990	215,002	0	0	1,757	1,279
East North Central	487,341	336,745	45.0%	179,638	127,368	295,049	197,940	3,897	3,315	8,757	8,122
Illinois	41,395	39,235	5.5%	4,214	139	37,156	39,069	0	0	24	27
Indiana	91,161	61,851	47.0%	45,409	51,095	45,752	10,756	0	0	0	0
Michigan	142,556	101,365	41.0%	41,996	21,543	92,764	73,100	3,897	3,315	3,899	3,407
Ohio	151,064	100,190	51.0%	34,137	27,976	113,741	69,268	0	0	3,186	2,946
Wisconsin	61,164	34,105	79.0%	53,881	26,616	5,636	5,747	0	0	1,648	1,742
West North Central	100,075	23,863	319.0%	86,113	20,930	9,963	282	1,237	790	2,763	1,861
Iowa	36,608	8,505	330.0%	33,883	6,747	0	0	0	0	2,725	1,758
Kansas	13,747	8,762	57.0%	13,747	8,762	0	0	0	0	0	0
Minnesota	22,471	709	NM	21,736	319	692	282	4	5	38	103
Missouri	25,405	3,606	604.0%	14,902	2,821	9,271	0	1,232	785	0	0
Nebraska	1,468	1,391	5.5%	1,468	1,391	0	0	0	0	0	0
North Dakota	375	889	-58.0%	375	889	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,391,454	1,209,454	15.0%	1,144,307	1,024,675	226,523	165,078	0	0	20,623	19,701
Delaware	17,496	18,214	-3.9%	0	0	17,496	18,214	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	676,863	605,435	12.0%	648,730	595,819	25,832	8,361	0	0	2,302	1,256
Georgia	192,498	176,220	9.2%	146,183	137,255	40,983	33,541	0	0	5,332	5,424
Maryland	45,868	21,588	112.0%	10,509	0	33,771	20,186	0	0	1,588	1,402
North Carolina	175,888	146,987	20.0%	156,409	128,827	17,816	17,369	0	0	1,663	791
South Carolina	82,539	63,615	30.0%	66,027	54,550	15,987	8,494	0	0	525	571
Virginia	192,530	169,629	14.0%	115,304	107,320	71,497	56,754	0	0	5,728	5,555
West Virginia	7,772	7,765	0.1%	1,146	904	3,141	2,159	0	0	3,485	4,702
East South Central	562,570	442,119	27.0%	379,044	295,683	172,254	135,947	0	0	11,272	10,489
Alabama	224,514	185,871	21.0%	77,592	67,609	146,922	118,262	0	0	0	0
Kentucky	62,903	29,421	114.0%	58,352	27,580	4,551	1,841	0	0	0	0
Mississippi	215,501	176,074	22.0%	194,720	160,229	20,781	15,845	0	0	0	0
Tennessee	59,651	50,753	18.0%	48,379	40,264	0	0	0	0	11,272	10,489
West South Central	1,593,849	1,211,704	32.0%	435,968	269,756	796,502	632,461	0	0	361,380	309,487
Arkansas	79,247	44,153	79.0%	36,974	39	40,918	42,992	0	0	1,355	1,122
Louisiana	273,011	247,745	10.0%	135,562	112,410	21,342	20,202	0	0	116,108	115,133
Oklahoma	168,878	115,639	46.0%	99,332	69,449	67,482	45,128	0	0	2,065	1,062
Texas	1,072,712	804,167	33.0%	164,100	87,857	666,761	524,139	0	0	241,852	192,171
Mountain	379,973	331,550	15.0%	318,265	271,101	61,321	59,997	0	0	386	452
Arizona	131,577	116,235	13.0%	96,836	79,236	34,742	36,999	0	0	0	0
Colorado	67,919	51,114	33.0%	58,338	43,372	9,580	7,742	0	0	0	0
Idaho	2,484	0	--	2,484	0	0	0	0	0	0	0
Montana	1,540	1,711	-10.0%	1,540	1,711	0	0	0	0	0	0
Nevada	102,268	100,580	1.7%	102,268	100,580	0	0	0	0	0	0
New Mexico	46,068	40,346	14.0%	29,340	25,872	16,728	14,474	0	0	0	0
Utah	27,346	21,047	30.0%	26,697	19,823	263	772	0	0	386	452
Wyoming	771	517	49.0%	762	506	9	11	0	0	0	0
Pacific Contiguous	352,663	318,816	11.0%	132,719	124,781	203,655	175,547	0	0	16,289	18,488
California	285,575	283,239	0.8%	101,846	108,706	167,440	156,045	0	0	16,289	18,488
Oregon	44,496	24,292	83.0%	18,395	4,789	26,101	19,503	0	0	0	0
Washington	22,592	11,285	100.0%	12,478	11,285	10,115	0	0	0	0	0
Pacific Noncontiguous	822	857	-4.1%	822	857	0	0	0	0	0	0
Alaska	822	857	-4.1%	822	857	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,640,271	4,517,297	25.0%	2,728,626	2,184,104	2,478,923	1,958,285	5,134	4,105	427,587	370,804

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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, July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017
New England	W	W	W	--	--	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.04	1.91	6.8%	--	--	2.04	1.91
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	W	1.85	W	--	--	W	1.85
East North Central	1.99	2.03	-2.0%	2.12	2.10	1.82	1.92
Illinois	1.78	1.80	-1.1%	1.90	1.84	1.76	1.79
Indiana	W	W	W	2.13	2.14	W	W
Michigan	W	W	W	2.07	2.13	W	W
Ohio	W	W	W	1.72	1.72	W	W
Wisconsin	2.30	2.27	1.3%	2.30	2.27	--	--
West North Central	1.70	1.72	-1.2%	1.70	1.72	--	--
Iowa	1.65	1.68	-1.8%	1.65	1.68	--	--
Kansas	1.73	1.71	1.2%	1.73	1.71	--	--
Minnesota	2.22	2.10	5.7%	2.22	2.10	--	--
Missouri	1.81	1.86	-2.7%	1.81	1.86	--	--
Nebraska	1.24	1.37	-9.5%	1.24	1.37	--	--
North Dakota	1.50	1.49	0.7%	1.50	1.49	--	--
South Dakota	2.04	2.21	-7.7%	2.04	2.21	--	--
South Atlantic	2.61	2.70	-3.3%	2.66	2.73	2.27	2.46
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.82	2.86	-1.4%	2.82	2.86	--	--
Georgia	2.72	2.75	-1.1%	2.72	2.75	--	--
Maryland	2.49	2.44	2.0%	--	--	2.49	2.44
North Carolina	W	W	W	3.16	2.99	W	W
South Carolina	3.20	3.27	-2.1%	3.20	3.27	--	--
Virginia	W	W	W	2.60	2.83	W	W
West Virginia	W	W	W	2.08	2.26	W	W
East South Central	W	W	W	2.11	2.16	W	W
Alabama	2.40	2.24	7.1%	2.40	2.24	--	--
Kentucky	1.93	2.01	-4.0%	1.93	2.01	--	--
Mississippi	W	W	W	2.43	2.81	W	W
Tennessee	2.20	2.32	-5.2%	2.20	2.32	--	--
West South Central	1.86	2.01	-7.5%	2.04	2.08	1.64	1.94
Arkansas	W	W	W	1.99	2.16	W	W
Louisiana	W	W	W	2.74	2.26	W	W
Oklahoma	W	W	W	1.78	1.81	W	W
Texas	1.78	2.00	-11.0%	2.02	2.10	1.58	1.94
Mountain	W	W	W	2.06	1.90	W	W
Arizona	2.46	2.25	9.3%	2.46	2.25	--	--
Colorado	1.67	1.67	0.0%	1.67	1.67	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.24	1.75	W	W
Nevada	W	W	W	2.61	3.05	W	W
New Mexico	2.69	2.06	31.0%	2.69	2.06	--	--
Utah	2.04	1.96	4.1%	2.04	1.96	--	--
Wyoming	W	W	W	1.65	1.65	W	W
Pacific Contiguous	W	W	W	2.27	--	W	W
California	--	--	--	--	--	--	--
Oregon	2.27	--	--	2.27	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.53	2.97	W	W
Alaska	3.53	2.97	19.0%	3.53	2.97	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.08	-1.4%	2.10	2.12	1.88	1.97

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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) July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	W	W	W	3.61	4.34	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	3.61	4.34	-17.0%	3.61	4.34	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.29	1.99	15.0%	--	--	2.29	1.99
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.22	1.92	16.0%	--	--	2.22	1.92
East North Central	1.98	2.03	-2.5%	2.09	2.12	1.80	1.90
Illinois	1.76	W	W	1.86	1.84	1.73	W
Indiana	W	W	W	2.11	2.18	W	W
Michigan	W	W	W	2.12	2.17	W	W
Ohio	W	1.93	W	1.77	1.74	W	2.00
Wisconsin	2.26	2.27	-0.4%	2.26	2.27	--	--
West North Central	1.72	1.76	-2.3%	1.72	1.76	--	--
Iowa	1.69	1.69	0.0%	1.69	1.69	--	--
Kansas	1.70	1.73	-1.7%	1.70	1.73	--	--
Minnesota	2.15	2.10	2.4%	2.15	2.10	--	--
Missouri	1.83	1.87	-2.1%	1.83	1.87	--	--
Nebraska	1.25	1.37	-8.8%	1.25	1.37	--	--
North Dakota	1.52	1.62	-6.2%	1.52	1.62	--	--
South Dakota	1.93	2.27	-15.0%	1.93	2.27	--	--
South Atlantic	2.63	2.70	-2.6%	2.69	2.72	2.27	2.51
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.88	W	W	2.88	2.95	--	W
Georgia	2.79	2.76	1.1%	2.79	2.76	--	--
Maryland	2.52	2.77	-9.0%	--	--	2.52	2.77
North Carolina	W	W	W	3.08	2.97	W	W
South Carolina	3.33	3.27	1.8%	3.33	3.27	--	--
Virginia	W	W	W	2.65	2.73	W	W
West Virginia	W	W	W	2.14	2.22	W	W
East South Central	W	W	W	2.09	2.08	W	W
Alabama	2.32	2.18	6.4%	2.32	2.18	--	--
Kentucky	1.96	1.97	-0.5%	1.96	1.97	--	--
Mississippi	W	W	W	2.61	2.80	W	W
Tennessee	2.16	2.26	-4.4%	2.16	2.26	--	--
West South Central	1.85	1.97	-6.1%	2.00	2.11	1.66	1.86
Arkansas	W	W	W	1.94	2.12	W	W
Louisiana	W	W	W	2.48	2.36	W	W
Oklahoma	W	W	W	1.76	1.89	W	W
Texas	1.78	1.93	-7.8%	2.02	2.12	1.59	1.84
Mountain	W	W	W	2.02	1.91	W	W
Arizona	2.45	2.26	8.4%	2.45	2.26	--	--
Colorado	1.65	1.81	-8.8%	1.65	1.81	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.97	1.74	W	W
Nevada	W	W	W	2.80	3.05	W	W
New Mexico	2.42	1.95	24.0%	2.42	1.95	--	--
Utah	2.05	1.96	4.6%	2.05	1.96	--	--
Wyoming	W	W	W	1.74	1.65	W	W
Pacific Contiguous	W	W	W	2.26	2.40	W	W
California	--	--	--	--	--	--	--
Oregon	2.26	2.40	-5.8%	2.26	2.40	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.37	3.04	W	W
Alaska	3.37	3.04	11.0%	3.37	3.04	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.09	-1.9%	2.10	2.13	1.90	1.96

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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, July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017
New England	16.79	W	W	12.45	13.60	17.85	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	12.45	13.60	-8.5%	12.45	13.60	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	16.70	11.45	46.0%	--	--	16.70	11.45
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	16.63	11.60	43.0%	--	--	16.63	11.60
East North Central	16.73	11.76	42.0%	16.84	11.72	16.56	11.81
Illinois	W	W	W	--	--	W	W
Indiana	W	11.60	W	16.64	11.60	W	--
Michigan	16.90	11.58	46.0%	16.90	11.58	--	--
Ohio	16.69	W	W	20.50	12.51	16.35	W
Wisconsin	--	11.36	--	--	11.36	--	--
West North Central	16.58	11.88	40.0%	16.58	11.88	--	--
Iowa	16.81	11.92	41.0%	16.81	11.92	--	--
Kansas	16.38	12.24	34.0%	16.38	12.24	--	--
Minnesota	17.39	11.97	45.0%	17.39	11.97	--	--
Missouri	16.83	11.76	43.0%	16.83	11.76	--	--
Nebraska	--	12.46	--	--	12.46	--	--
North Dakota	14.84	11.24	32.0%	14.84	11.24	--	--
South Dakota	17.13	--	--	17.13	--	--	--
South Atlantic	W	11.32	W	12.14	11.52	W	10.48
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.75	12.14	38.0%	16.75	12.14	--	--
Georgia	15.62	11.23	39.0%	15.62	11.23	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	16.18	11.53	40.0%	16.18	11.53	--	--
South Carolina	16.58	11.94	39.0%	16.58	11.94	--	--
Virginia	W	W	W	10.08	10.23	W	W
West Virginia	15.50	11.39	36.0%	15.50	11.39	--	--
East South Central	16.22	11.59	40.0%	16.22	11.59	--	--
Alabama	16.80	12.40	35.0%	16.80	12.40	--	--
Kentucky	16.03	11.75	36.0%	16.03	11.75	--	--
Mississippi	15.68	11.15	41.0%	15.68	11.15	--	--
Tennessee	15.70	11.13	41.0%	15.70	11.13	--	--
West South Central	W	11.67	W	16.04	11.14	W	11.97
Arkansas	--	W	W	--	11.34	--	W
Louisiana	15.99	--	--	15.99	--	--	--
Oklahoma	16.09	--	--	16.09	--	--	--
Texas	W	W	W	16.03	11.05	W	W
Mountain	W	W	W	17.39	12.38	W	W
Arizona	16.25	11.78	38.0%	16.25	11.78	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	17.41	12.45	W	W
New Mexico	18.49	12.85	44.0%	18.49	12.85	--	--
Utah	20.65	W	W	20.65	12.92	--	W
Wyoming	17.58	12.77	38.0%	17.58	12.77	--	--
Pacific Contiguous	W	W	W	--	12.46	W	W
California	--	--	--	--	--	--	--
Oregon	--	12.46	--	--	12.46	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	14.35	10.32	W	W
Alaska	17.43	15.93	9.4%	17.43	15.93	--	--
Hawaii	W	W	W	14.35	10.31	W	W
U.S. Total	14.69	W	W	14.29	10.91	15.97	W

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

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) July 2018 and 2017 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	W	12.02	W	11.39	13.97	W	11.93
Connecticut	16.94	W	W	--	--	16.94	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	15.00	--	W	W
New Hampshire	W	13.97	W	11.00	13.97	W	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.56	W	W	12.28	9.22	14.34	W
New Jersey	W	W	W	--	--	W	W
New York	13.05	12.97	0.6%	12.28	9.22	13.73	20.68
Pennsylvania	W	W	W	--	--	W	W
East North Central	16.07	12.11	33.0%	16.27	12.07	15.78	12.18
Illinois	W	12.47	W	15.85	11.83	W	12.50
Indiana	W	11.95	W	16.18	11.95	W	--
Michigan	15.73	11.62	35.0%	15.73	11.62	--	--
Ohio	15.81	12.34	28.0%	16.38	12.98	15.66	12.03
Wisconsin	17.94	11.79	52.0%	17.94	11.79	--	--
West North Central	16.10	12.09	33.0%	16.10	12.09	--	--
Iowa	16.09	12.32	31.0%	16.09	12.32	--	--
Kansas	16.22	11.98	35.0%	16.22	11.98	--	--
Minnesota	16.71	11.97	40.0%	16.71	11.97	--	--
Missouri	16.02	12.08	33.0%	16.02	12.08	--	--
Nebraska	16.00	11.92	34.0%	16.00	11.92	--	--
North Dakota	15.80	12.00	32.0%	15.80	12.00	--	--
South Dakota	17.15	11.98	43.0%	17.15	11.98	--	--
South Atlantic	14.21	12.12	17.0%	14.29	12.14	13.96	11.90
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.07	12.32	30.0%	16.07	12.32	--	--
Georgia	W	W	W	15.42	11.40	W	W
Maryland	14.28	10.75	33.0%	--	--	14.28	10.75
North Carolina	17.04	W	W	17.04	12.02	--	W
South Carolina	16.83	12.52	34.0%	16.83	12.52	--	--
Virginia	W	W	W	9.71	10.84	W	W
West Virginia	W	12.42	W	16.65	12.42	W	--
East South Central	W	W	W	15.86	11.85	W	W
Alabama	W	W	W	16.26	12.60	W	W
Kentucky	15.80	11.89	33.0%	15.80	11.89	--	--
Mississippi	15.22	11.62	31.0%	15.22	11.62	--	--
Tennessee	15.63	11.61	35.0%	15.63	11.61	--	--
West South Central	15.95	12.19	31.0%	15.94	11.84	16.00	12.42
Arkansas	W	W	W	15.99	11.72	W	W
Louisiana	15.04	--	--	15.04	--	--	--
Oklahoma	15.98	12.91	24.0%	15.98	12.91	--	--
Texas	W	W	W	16.06	11.80	W	W
Mountain	W	13.25	W	17.75	13.25	W	13.22
Arizona	16.01	12.83	25.0%	16.01	12.83	--	--
Colorado	17.17	12.52	37.0%	17.17	12.52	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.35	11.95	W	W
New Mexico	17.97	12.67	42.0%	17.97	12.67	--	--
Utah	W	W	W	19.10	13.88	W	W
Wyoming	18.90	13.69	38.0%	18.90	13.69	--	--
Pacific Contiguous	W	W	W	--	13.16	W	W
California	--	--	--	--	--	--	--
Oregon	--	13.16	--	--	13.16	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	13.29	10.76	W	W
Alaska	17.74	16.16	9.8%	17.74	16.16	--	--
Hawaii	W	W	W	13.29	10.75	W	W
U.S. Total	13.83	11.45	21.0%	13.75	11.28	13.98	12.05

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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, July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.39	1.46	-4.8%	1.39	1.46	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.35	1.42	-4.9%	1.35	1.42	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.75	1.80	-2.8%	1.75	1.80	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.41	2.41	41.0%	3.41	2.41	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.41	2.41	41.0%	3.41	2.41	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.83	2.15	32.0%	2.83	2.15	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.83	2.15	32.0%	2.83	2.15	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.73	2.11	29.0%	2.73	2.11	--	--

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) July 2018 and 2017 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.52	1.49	2.0%	1.52	1.49	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.50	1.46	2.7%	1.50	1.46	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.80	-1.7%	1.77	1.80	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.07	2.54	21.0%	3.07	2.54	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.07	2.54	21.0%	3.07	2.54	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.50	--	--	1.50	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.50	--	--	1.50	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.64	2.13	24.0%	2.64	2.13	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.64	2.13	24.0%	2.64	2.13	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.55	2.07	23.0%	2.55	2.07	--	--

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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, July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018	July 2017	Percentage Change	July 2018	July 2017	July 2018	July 2017
New England	W	W	W	4.28	3.08	W	W
Connecticut	2.96	W	W	--	--	2.96	W
Maine	W	W	W	--	--	W	W
Massachusetts	2.81	2.50	12.0%	3.21	3.06	2.81	2.49
New Hampshire	W	W	W	5.50	4.97	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.71	2.41	12.0%	3.09	2.74	2.66	2.36
New Jersey	2.63	2.36	11.0%	--	--	2.63	2.36
New York	3.00	2.67	12.0%	3.09	2.74	2.96	2.64
Pennsylvania	2.53	2.19	16.0%	--	--	2.53	2.19
East North Central	2.93	3.00	-2.3%	3.07	3.04	2.85	2.97
Illinois	3.05	3.19	-4.4%	2.96	3.41	3.06	3.19
Indiana	2.91	W	W	3.03	3.07	2.83	W
Michigan	3.06	3.10	-1.3%	3.25	3.25	2.95	3.03
Ohio	2.82	2.75	2.5%	3.25	2.59	2.70	2.80
Wisconsin	2.88	W	W	2.88	3.17	--	W
West North Central	W	W	W	2.81	3.04	W	W
Iowa	2.53	2.76	-8.3%	2.53	2.76	--	--
Kansas	3.13	3.13	0.0%	3.13	3.13	--	--
Minnesota	W	W	W	3.04	3.18	W	W
Missouri	W	3.03	W	2.82	3.03	W	--
Nebraska	3.04	3.23	-5.9%	3.04	3.23	--	--
North Dakota	5.59	6.06	-7.8%	5.59	6.06	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.62	3.78	-4.2%	3.71	3.88	3.05	3.02
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.00	4.17	W	W
Georgia	W	W	W	3.32	3.50	W	W
Maryland	3.22	3.28	-1.8%	3.29	--	3.19	3.28
North Carolina	W	W	W	3.46	3.75	W	W
South Carolina	W	W	W	3.41	3.53	W	W
Virginia	3.10	2.94	5.4%	3.24	3.09	2.75	2.56
West Virginia	W	W	W	2.80	2.98	W	W
East South Central	2.95	3.14	-6.1%	2.93	3.11	3.02	3.22
Alabama	W	W	W	3.11	3.30	W	W
Kentucky	W	W	W	3.06	3.36	W	W
Mississippi	W	W	W	2.87	3.02	W	W
Tennessee	2.73	2.91	-6.2%	2.73	2.91	--	--
West South Central	2.84	3.03	-6.3%	2.80	3.10	2.88	2.99
Arkansas	W	W	W	2.89	2.99	W	W
Louisiana	W	W	W	2.99	3.24	W	W
Oklahoma	W	W	W	2.49	2.97	W	W
Texas	2.88	3.02	-4.6%	2.83	3.08	2.89	3.00
Mountain	2.90	3.24	-10.0%	2.87	3.24	3.34	3.24
Arizona	W	W	W	2.93	3.45	W	W
Colorado	W	W	W	2.92	3.13	W	W
Idaho	2.63	--	--	2.63	--	--	--
Montana	1.20	1.46	-18.0%	1.20	1.46	--	--
Nevada	2.96	3.15	-6.0%	2.96	3.15	--	--
New Mexico	2.47	3.37	-27.0%	2.47	3.37	--	--
Utah	2.63	W	W	2.63	2.95	--	W
Wyoming	W	W	W	2.69	2.89	W	W
Pacific Contiguous	6.39	3.47	84.0%	4.40	3.82	7.88	3.15
California	7.67	W	W	5.40	4.00	9.07	W
Oregon	W	W	W	1.80	2.24	W	W
Washington	W	3.67	W	2.74	3.67	W	--
Pacific Noncontiguous	7.76	8.09	-4.1%	7.76	8.09	--	--
Alaska	7.76	8.09	-4.1%	7.76	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.31	3.21	3.1%	3.29	3.48	3.34	2.86

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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) July 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2018 YTD	July 2017 YTD	Percentage Change	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	W	W	W	4.25	3.49	W	W
Connecticut	4.74	W	W	--	--	4.74	W
Maine	W	W	W	--	--	W	W
Massachusetts	5.26	3.55	48.0%	3.29	3.25	5.27	3.55
New Hampshire	W	W	W	5.60	3.87	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.33	3.16	5.4%	4.19	3.73	3.23	3.08
New Jersey	3.22	3.02	6.6%	--	--	3.22	3.02
New York	3.86	3.59	7.5%	4.19	3.73	3.71	3.52
Pennsylvania	3.02	2.83	6.7%	--	--	3.02	2.83
East North Central	3.01	3.14	-4.1%	3.17	3.16	2.91	3.12
Illinois	3.17	3.12	1.6%	3.24	4.01	3.17	3.11
Indiana	3.07	W	W	3.28	3.08	2.88	W
Michigan	3.05	3.21	-5.0%	3.30	3.36	2.94	3.16
Ohio	2.84	3.02	-6.0%	2.93	2.92	2.81	3.06
Wisconsin	3.13	W	W	3.13	3.43	--	W
West North Central	W	W	W	2.91	3.33	W	W
Iowa	2.64	2.76	-4.3%	2.64	2.76	--	--
Kansas	2.96	3.63	-18.0%	2.96	3.63	--	--
Minnesota	W	W	W	3.33	3.41	W	W
Missouri	W	3.07	W	2.74	3.07	W	--
Nebraska	3.56	3.83	-7.0%	3.56	3.83	--	--
North Dakota	5.80	4.86	19.0%	5.80	4.86	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	4.25	3.91	8.7%	4.33	3.99	3.67	3.25
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.31	4.14	W	W
Georgia	W	W	W	3.65	3.68	W	W
Maryland	3.99	W	W	3.25	--	4.21	W
North Carolina	W	W	W	4.74	4.04	W	W
South Carolina	W	W	W	3.81	3.53	W	W
Virginia	4.50	3.49	29.0%	5.15	3.71	2.96	2.77
West Virginia	W	W	W	3.21	3.05	W	W
East South Central	3.15	3.30	-4.5%	3.14	3.29	3.15	3.31
Alabama	W	W	W	3.19	3.45	W	W
Kentucky	W	W	W	3.46	3.75	W	W
Mississippi	W	W	W	3.08	3.20	W	W
Tennessee	2.95	3.09	-4.5%	2.95	3.09	--	--
West South Central	2.96	3.14	-5.7%	2.94	3.27	2.98	3.08
Arkansas	W	W	W	3.09	3.23	W	W
Louisiana	W	W	W	3.17	3.32	W	W
Oklahoma	W	W	W	2.58	3.26	W	W
Texas	2.98	3.10	-3.9%	2.95	3.20	2.99	3.08
Mountain	2.97	3.55	-16.0%	2.94	3.56	3.47	3.44
Arizona	W	W	W	2.89	3.77	W	W
Colorado	W	W	W	3.57	3.48	W	W
Idaho	2.62	--	--	2.62	--	--	--
Montana	1.39	2.04	-32.0%	1.39	2.04	--	--
Nevada	2.82	3.51	-20.0%	2.82	3.51	--	--
New Mexico	2.53	3.46	-27.0%	2.53	3.46	--	--
Utah	W	W	W	2.71	3.46	W	W
Wyoming	W	W	W	2.87	3.66	W	W
Pacific Contiguous	3.99	3.65	9.3%	3.65	4.01	4.31	3.29
California	4.44	W	W	4.07	4.08	4.76	W
Oregon	W	W	W	2.08	2.86	W	W
Washington	W	4.03	W	3.02	4.03	W	--
Pacific Noncontiguous	8.07	8.09	-0.2%	8.07	8.09	--	--
Alaska	8.07	8.09	-0.2%	8.07	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.50	3.49	0.3%	3.62	3.69	3.32	3.20

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, July 2018

	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	3	0.73	7.4	38	0.09	2.0	0	--	--
Connecticut	0	--	--	38	0.09	2.0	0	--	--
Maine	3	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,045	2.93	9.3	0	--	--	0	--	--
New Jersey	24	1.44	6.1	0	--	--	0	--	--
New York	28	2.91	8.6	0	--	--	0	--	--
Pennsylvania	993	2.97	9.4	0	--	--	0	--	--
East North Central	5,346	3.31	10.6	6,294	0.24	4.7	0	--	--
Illinois	855	3.58	20.1	2,515	0.22	4.7	0	--	--
Indiana	2,355	2.94	9.1	220	0.22	4.4	0	--	--
Michigan	159	2.24	7.5	1,928	0.27	4.6	0	--	--
Ohio	1,961	3.73	9.4	0	--	--	0	--	--
Wisconsin	16	2.71	7.9	1,632	0.24	5.0	0	--	--
West North Central	122	2.90	9.2	8,021	0.28	5.0	2,093	0.72	9.8
Iowa	56	2.74	8.3	1,188	0.26	4.8	0	--	--
Kansas	17	3.32	13.3	1,197	0.31	4.9	0	--	--
Minnesota	0	--	--	986	0.38	6.8	0	--	--
Missouri	49	2.93	8.9	3,248	0.23	4.7	0	--	--
Nebraska	0	--	--	1,260	0.32	5.0	0	--	--
North Dakota	0	--	--	0	--	--	2,093	0.72	9.8
South Dakota	0	--	--	142	0.39	5.4	0	--	--
South Atlantic	5,742	2.37	10.4	710	0.36	4.7	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	893	2.51	8.2	0	--	--	0	--	--
Georgia	585	2.65	8.7	710	0.36	4.7	0	--	--
Maryland	329	2.19	10.6	0	--	--	0	--	--
North Carolina	1,057	1.77	10.1	0	--	--	0	--	--
South Carolina	463	1.49	9.4	0	--	--	0	--	--
Virginia	442	1.10	19.9	0	--	--	0	--	--
West Virginia	1,973	3.02	10.4	0	--	--	0	--	--
East South Central	3,127	2.64	9.6	1,661	0.28	5.2	318	0.57	14.0
Alabama	587	1.28	11.3	817	0.30	5.4	0	--	--
Kentucky	2,055	3.09	9.4	571	0.25	5.0	0	--	--
Mississippi	44	2.96	8.4	127	0.31	5.3	318	0.57	14.0
Tennessee	442	2.24	8.5	146	0.33	5.4	0	--	--
West South Central	97	2.74	18.1	6,919	0.28	5.1	2,274	1.09	16.4
Arkansas	4	0.39	10.7	1,243	0.25	5.0	0	--	--
Louisiana	48	3.16	9.3	412	0.33	5.3	150	0.59	15.5
Oklahoma	45	2.53	29.9	721	0.22	4.5	0	--	--
Texas	0	--	--	4,542	0.30	5.2	2,123	1.12	16.5
Mountain	2,056	0.57	12.7	5,092	0.51	9.2	26	0.65	9.7
Arizona	648	0.63	10.1	939	0.66	10.8	0	--	--
Colorado	95	0.46	11.8	1,110	0.35	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	394	0.63	9.2	26	0.65	9.7
Nevada	84	0.48	10.2	89	0.35	6.0	0	--	--
New Mexico	246	0.66	23.9	574	0.72	21.4	0	--	--
Utah	982	0.52	12.3	32	0.90	9.4	0	--	--
Wyoming	0	--	--	1,954	0.44	6.9	0	--	--
Pacific Contiguous	55	0.42	10.7	301	0.34	7.8	0	--	--
California	55	0.42	10.7	0	--	--	0	--	--
Oregon	0	--	--	110	0.24	5.1	0	--	--
Washington	0	--	--	192	0.40	9.3	0	--	--
Pacific Noncontiguous	0	--	--	63	0.23	4.6	9	0.18	10.5
Alaska	0	--	--	0	--	--	9	0.18	10.5
Hawaii	0	--	--	63	0.23	4.6	0	--	--
U.S. Total	17,591	2.54	10.5	29,100	0.31	5.8	4,720	0.89	13.3

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, July 2018

	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	2,701	3.00	9.1	4,056	0.25	4.8	0	--	--
Illinois	183	3.15	11.5	276	0.25	4.8	0	--	--
Indiana	2,164	2.90	9.0	220	0.22	4.4	0	--	--
Michigan	141	2.42	7.7	1,928	0.27	4.6	0	--	--
Ohio	197	4.28	9.7	0	--	--	0	--	--
Wisconsin	16	2.71	7.9	1,632	0.24	5.0	0	--	--
West North Central	66	3.03	10.0	7,730	0.28	5.1	2,093	0.72	9.8
Iowa	0	--	--	1,036	0.26	4.8	0	--	--
Kansas	17	3.32	13.3	1,197	0.31	4.9	0	--	--
Minnesota	0	--	--	926	0.39	6.8	0	--	--
Missouri	49	2.93	8.9	3,248	0.23	4.7	0	--	--
Nebraska	0	--	--	1,181	0.33	5.0	0	--	--
North Dakota	0	--	--	0	--	--	2,093	0.72	9.8
South Dakota	0	--	--	142	0.39	5.4	0	--	--
South Atlantic	4,896	2.34	10.5	710	0.36	4.7	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	893	2.51	8.2	0	--	--	0	--	--
Georgia	573	2.70	8.6	710	0.36	4.7	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,037	1.79	10.2	0	--	--	0	--	--
South Carolina	458	1.50	9.4	0	--	--	0	--	--
Virginia	372	1.18	22.6	0	--	--	0	--	--
West Virginia	1,563	2.95	10.7	0	--	--	0	--	--
East South Central	3,058	2.68	9.6	1,661	0.28	5.2	0	--	--
Alabama	587	1.28	11.3	817	0.30	5.4	0	--	--
Kentucky	2,055	3.09	9.4	571	0.25	5.0	0	--	--
Mississippi	44	2.96	8.4	127	0.31	5.3	0	--	--
Tennessee	372	2.50	8.6	146	0.33	5.4	0	--	--
West South Central	48	3.16	9.3	4,222	0.26	5.0	726	1.62	19.1
Arkansas	0	--	--	1,044	0.25	4.9	0	--	--
Louisiana	48	3.16	9.3	215	0.29	5.4	150	0.59	15.5
Oklahoma	0	--	--	636	0.22	4.6	0	--	--
Texas	0	--	--	2,326	0.28	5.1	576	1.94	20.1
Mountain	2,056	0.57	12.7	4,576	0.50	9.3	26	0.65	9.7
Arizona	648	0.63	10.1	939	0.66	10.8	0	--	--
Colorado	95	0.46	11.8	1,110	0.35	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	26	0.65	9.7
Nevada	84	0.48	10.2	12	0.44	8.7	0	--	--
New Mexico	246	0.66	23.9	574	0.72	21.4	0	--	--
Utah	982	0.52	12.3	32	0.90	9.4	0	--	--
Wyoming	0	--	--	1,909	0.44	6.9	0	--	--
Pacific Contiguous	0	--	--	110	0.24	5.1	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	110	0.24	5.1	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.18	10.5
Alaska	0	--	--	0	--	--	9	0.18	10.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,824	2.30	10.3	23,066	0.32	5.9	2,855	0.94	12.1

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, July 2018

	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	3	0.73	7.4	38	0.09	2.0	0	--	--
Connecticut	0	--	--	38	0.09	2.0	0	--	--
Maine	3	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,045	2.93	9.3	0	--	--	0	--	--
New Jersey	24	1.44	6.1	0	--	--	0	--	--
New York	28	2.91	8.6	0	--	--	0	--	--
Pennsylvania	993	2.97	9.4	0	--	--	0	--	--
East North Central	2,528	3.63	12.3	2,206	0.21	4.7	0	--	--
Illinois	555	3.71	26.7	2,206	0.21	4.7	0	--	--
Indiana	191	3.37	10.5	0	--	--	0	--	--
Michigan	18	0.44	5.9	0	--	--	0	--	--
Ohio	1,764	3.67	9.4	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	782	2.66	9.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	317	2.21	10.3	0	--	--	0	--	--
North Carolina	2	0.69	6.1	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	53	0.80	8.9	0	--	--	0	--	--
West Virginia	409	3.26	9.3	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	318	0.57	14.0
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	318	0.57	14.0
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	45	2.53	29.9	2,682	0.31	5.3	1,547	0.85	15.3
Arkansas	0	--	--	199	0.24	5.0	0	--	--
Louisiana	0	--	--	197	0.38	5.2	0	--	--
Oklahoma	45	2.53	29.9	71	0.22	4.4	0	--	--
Texas	0	--	--	2,216	0.32	5.3	1,547	0.85	15.3
Mountain	0	--	--	516	0.57	8.4	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	394	0.63	9.2	0	--	--
Nevada	0	--	--	77	0.34	5.5	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.44	5.7	0	--	--
Pacific Contiguous	0	--	--	192	0.40	9.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	192	0.40	9.3	0	--	--
Pacific Noncontiguous	0	--	--	63	0.23	4.6	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	63	0.23	4.6	0	--	--
U.S. Total	4,402	3.26	11.2	5,697	0.29	5.4	1,865	0.81	15.1

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 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, July 2018

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

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, July 2018

	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	117	3.69	8.5	32	0.87	6.5	0	--	--
Illinois	116	3.70	8.5	32	0.87	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.82	6.5	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	56	2.74	8.3	291	0.21	4.7	0	--	--
Iowa	56	2.74	8.3	151	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	60	0.22	5.7	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	80	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	64	0.94	9.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	12	0.82	9.0	0	--	--	0	--	--
Maryland	12	1.67	21.7	0	--	--	0	--	--
North Carolina	18	0.87	6.9	0	--	--	0	--	--
South Carolina	5	0.70	8.9	0	--	--	0	--	--
Virginia	17	0.75	7.2	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	69	0.98	8.1	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	69	0.98	8.1	0	--	--	0	--	--
West South Central	4	0.39	10.7	14	0.21	4.7	0	--	--
Arkansas	4	0.39	10.7	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	14	0.21	4.7	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	55	0.42	10.7	0	--	--	0	--	--
California	55	0.42	10.7	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	365	1.94	9.0	337	0.28	4.9	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 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - July 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
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	1,378,819	1,349,208	946,443	7,524	3,681,995
Year 2016					
January	130,972	110,410	78,848	660	320,890
February	115,959	103,452	76,748	646	296,806
March	100,227	105,739	79,237	609	285,812
April	88,244	102,045	78,647	595	269,531
May	94,198	108,437	81,491	581	284,708
June	125,211	120,363	83,672	631	329,878
July	154,409	130,038	87,076	648	372,172
August	156,442	135,019	89,101	631	381,192
Sept	129,363	123,493	83,259	637	336,752
October	101,508	112,963	81,597	613	296,681
November	93,244	105,060	78,421	592	277,317
December	121,281	110,172	78,616	653	310,722
Year 2017					
January	129,253	109,414	75,814	666	315,148
February	101,349	99,607	71,958	636	273,550
March	103,434	107,171	77,587	644	288,836
April	90,966	101,796	75,917	590	269,269
May	98,977	109,912	80,147	583	289,619
June	122,034	119,289	82,224	629	324,176
July	149,075	128,324	84,240	630	362,268
August	142,026	128,144	85,905	641	356,716
Sept	119,077	118,836	80,260	619	318,793
October	102,983	113,036	79,471	626	296,116
November	97,870	104,959	76,195	598	279,622
December	121,775	108,720	76,724	663	307,882
Year 2018					
January	148,985	114,531	75,948	748	340,212
February	113,334	101,791	71,996	638	287,759
March	106,061	106,965	76,785	625	290,435
April	95,132	102,941	75,342	608	274,023
May	103,356	111,951	81,402	591	297,299
June	129,487	121,659	81,561	628	333,335
July	152,639	130,850	85,218	640	369,346
Year to Date					
2016	809,221	780,485	565,720	4,371	2,159,797
2017	795,088	775,513	547,888	4,377	2,122,866
2018	848,993	790,688	548,251	4,478	2,192,410
Rolling 12 Months Ending in July					
2017	1,396,925	1,362,219	958,883	7,503	3,725,530
2018	1,432,725	1,364,383	946,806	7,625	3,751,539

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 2016 and prior years are final. Values for 2018 and 2017 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, 2008 - July 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
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	177,860	144,108	65,394	727	388,089
Year 2016					
January	15,704	11,133	5,080	63	31,980
February	14,076	10,605	4,927	62	29,670
March	12,593	10,815	5,122	58	28,587
April	10,967	10,398	5,065	57	26,486
May	12,048	11,184	5,357	54	28,643
June	15,942	12,828	5,879	62	34,710
July	19,575	13,891	6,294	64	39,823
August	20,157	14,530	6,440	63	41,191
Sept	16,652	13,298	5,947	64	35,961
October	12,648	11,914	5,491	59	30,111
November	11,886	10,840	5,225	55	28,007
December	14,830	11,206	5,242	62	31,339
Year 2017					
January	15,783	11,190	4,988	62	32,023
February	12,952	10,439	4,763	60	28,215
March	13,332	11,224	5,224	61	29,841
April	11,542	10,584	5,021	56	27,203
May	12,879	11,633	5,459	56	30,027
June	16,123	13,120	5,937	64	35,243
July	19,547	14,108	6,194	64	39,912
August	18,727	14,153	6,231	64	39,175
Sept	15,838	13,150	5,795	62	34,844
October	13,220	12,231	5,525	60	31,036
November	12,691	11,054	5,171	57	28,974
December	15,226	11,222	5,084	62	31,594
Year 2018					
January	18,217	11,995	5,290	71	35,573
February	14,303	10,793	4,863	62	30,021
March	13,780	11,194	5,097	58	30,129
April	12,263	10,745	4,955	58	28,021
May	13,595	11,769	5,549	56	30,969
June	16,863	13,159	5,853	64	35,939
July	20,023	14,365	6,255	65	40,707
Year to Date					
2016	100,904	80,854	37,723	419	219,900
2017	102,157	82,298	37,587	423	222,465
2018	109,044	84,020	37,862	434	231,359
Rolling 12 Months Ending in July					
2017	178,330	144,086	65,933	725	389,075
2018	184,747	145,830	65,668	738	396,983

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 2016 and prior years are final. Values for 2018 and 2017 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, 2008 - July 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
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	12.90	10.68	6.91	9.67	10.54
Year 2016					
January	11.99	10.08	6.44	9.52	9.97
February	12.14	10.25	6.42	9.61	10.00
March	12.56	10.23	6.46	9.56	10.00
April	12.43	10.19	6.44	9.53	9.83
May	12.79	10.31	6.57	9.28	10.06
June	12.73	10.66	7.03	9.75	10.52
July	12.68	10.68	7.23	9.84	10.70
August	12.88	10.76	7.23	10.04	10.81
Sept	12.87	10.77	7.14	10.00	10.68
October	12.46	10.55	6.73	9.62	10.15
November	12.75	10.32	6.66	9.22	10.10
December	12.23	10.17	6.67	9.49	10.09
Year 2017					
January	12.21	10.23	6.58	9.38	10.16
February	12.78	10.48	6.62	9.47	10.31
March	12.89	10.47	6.73	9.47	10.33
April	12.69	10.40	6.61	9.44	10.10
May	13.01	10.58	6.81	9.58	10.37
June	13.21	11.00	7.22	10.14	10.87
July	13.11	10.99	7.35	10.11	11.02
August	13.19	11.04	7.25	10.05	10.98
Sept	13.30	11.07	7.22	9.99	10.93
October	12.84	10.82	6.95	9.55	10.48
November	12.97	10.53	6.79	9.49	10.36
December	12.50	10.32	6.63	9.32	10.26
Year 2018					
January	12.23	10.47	6.97	9.46	10.46
February	12.62	10.60	6.75	9.74	10.43
March	12.99	10.47	6.64	9.33	10.37
April	12.89	10.44	6.58	9.53	10.23
May	13.15	10.51	6.82	9.46	10.42
June	13.02	10.82	7.18	10.15	10.78
July	13.12	10.98	7.34	10.14	11.02
Year to Date					
2016	12.47	10.36	6.67	9.59	10.18
2017	12.85	10.61	6.86	9.66	10.48
2018	12.84	10.63	6.91	9.69	10.55
Rolling 12 Months Ending in July					
2017	12.77	10.58	6.88	9.67	10.44
2018	12.89	10.69	6.94	9.68	10.58

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 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, July 2018 and 2017 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	4,917	4,712	4,970	5,208	1,392	1,519	47	45	11,326	11,484
Connecticut	1,462	1,272	1,220	1,146	268	273	16	15	2,967	2,706
Maine	367	377	345	349	233	219	0	0	946	946
Massachusetts	2,070	2,162	2,431	2,797	539	671	29	28	5,068	5,657
New Hampshire	466	408	421	397	164	171	0	0	1,051	976
Rhode Island	361	320	364	342	66	64	2	2	793	729
Vermont	191	172	189	177	122	121	0	0	502	470
Middle Atlantic	14,268	13,716	14,781	14,694	6,447	6,281	316	313	35,812	35,005
New Jersey	3,684	3,517	3,653	3,633	627	614	26	25	7,990	7,789
New York	5,407	5,194	7,175	7,094	1,534	1,529	235	230	14,353	14,046
Pennsylvania	5,176	5,005	3,953	3,968	4,286	4,139	54	59	13,469	13,170
East North Central	20,257	19,156	17,433	17,190	16,181	16,071	48	44	53,919	52,461
Illinois	5,232	5,076	4,728	4,718	3,846	3,714	44	39	13,850	13,548
Indiana	3,384	3,274	2,339	2,280	3,582	3,565	2	2	9,307	9,120
Michigan	3,927	3,482	3,713	3,664	2,467	2,547	1	1	10,108	9,694
Ohio	5,468	5,204	4,413	4,359	4,100	4,092	2	3	13,984	13,658
Wisconsin	2,247	2,120	2,240	2,169	2,185	2,152	0	0	6,671	6,441
West North Central	10,500	10,875	9,710	9,798	8,011	8,012	4	4	28,225	28,688
Iowa	1,398	1,434	1,104	1,110	2,020	1,997	0	0	4,522	4,541
Kansas	1,661	1,665	1,576	1,578	1,004	1,013	0	0	4,242	4,257
Minnesota	2,037	2,053	2,143	2,158	1,870	1,817	2	2	6,053	6,029
Missouri	3,823	3,880	3,055	3,071	1,038	1,058	2	2	7,918	8,010
Nebraska	839	1,072	861	912	1,105	1,173	0	0	2,805	3,157
North Dakota	345	355	529	522	716	693	0	0	1,590	1,570
South Dakota	396	415	442	448	258	261	0	0	1,096	1,124
South Atlantic	37,791	37,946	29,933	29,964	12,529	12,027	120	120	80,374	80,056
Delaware	516	498	425	408	193	194	0	0	1,135	1,100
District of Columbia	263	288	794	770	18	20	32	35	1,107	1,113
Florida	12,983	12,907	9,023	8,969	1,482	1,456	7	8	23,496	23,340
Georgia	6,323	6,219	4,564	4,565	2,828	2,732	15	14	13,731	13,530
Maryland	2,771	2,854	2,776	2,844	360	360	47	45	5,955	6,104
North Carolina	6,106	6,147	4,783	4,683	2,498	2,333	2	0	13,387	13,163
South Carolina	3,343	3,349	2,165	2,175	2,434	2,414	0	0	7,942	7,938
Virginia	4,506	4,736	4,709	4,857	1,524	1,377	17	17	10,757	10,987
West Virginia	980	946	693	693	1,192	1,141	0	0	2,865	2,780
East South Central	12,734	12,181	9,141	8,666	8,290	8,674	0	0	30,165	29,521
Alabama	3,465	3,430	2,250	2,229	2,972	2,906	0	0	8,688	8,564
Kentucky	2,723	2,694	1,859	1,825	2,198	2,375	0	0	6,779	6,894
Mississippi	2,076	1,945	1,412	1,356	1,483	1,444	0	0	4,970	4,745
Tennessee	4,471	4,113	3,620	3,256	1,638	1,949	0	0	9,728	9,318
West South Central	25,942	24,529	19,854	18,486	15,862	15,721	19	17	61,676	58,753
Arkansas	2,036	1,800	1,239	1,168	1,651	1,500	0	0	4,926	4,468
Louisiana	3,507	3,290	2,433	2,352	2,925	2,890	1	1	8,866	8,533
Oklahoma	2,812	2,768	2,086	2,016	1,596	1,533	0	0	6,494	6,317
Texas	17,586	16,671	14,096	12,950	9,690	9,798	17	16	41,390	39,434
Mountain	12,143	12,096	9,790	9,589	7,987	7,783	14	12	29,934	29,480
Arizona	4,706	4,645	3,112	3,053	1,249	1,168	1	1	9,068	8,866
Colorado	2,052	2,048	2,001	1,940	1,458	1,428	8	6	5,519	5,422
Idaho	781	810	599	607	1,277	1,247	0	0	2,656	2,664
Montana	377	407	423	451	391	395	0	0	1,192	1,253
Nevada	1,976	2,002	1,299	1,238	1,131	1,139	1	1	4,407	4,380
New Mexico	797	789	879	862	717	688	0	0	2,394	2,339
Utah	1,232	1,171	1,158	1,124	852	816	4	5	3,246	3,116
Wyoming	221	223	319	314	913	902	0	0	1,453	1,439
Pacific Contiguous	13,708	13,484	14,752	14,239	8,083	7,714	72	75	36,614	35,511
California	9,666	9,505	10,721	10,311	4,658	4,455	69	72	25,115	24,343
Oregon	1,530	1,498	1,495	1,473	1,261	1,113	2	2	4,289	4,086
Washington	2,512	2,481	2,535	2,455	2,163	2,145	1	1	7,210	7,082
Pacific Noncontiguous	380	381	487	489	434	440	0	0	1,300	1,310
Alaska	139	144	217	216	109	117	0	0	466	477
Hawaii	240	238	269	272	325	323	0	0	834	833
U.S. Total	152,639	149,075	130,850	128,324	85,218	84,240	640	630	369,346	362,268

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

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2018 and 2017 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	27,708	28,378	30,088	32,887	9,159	9,782	327	323	67,282	71,369
Connecticut	7,592	7,299	7,143	7,078	1,753	1,775	105	101	16,594	16,253
Maine	2,723	2,757	2,288	2,320	1,571	1,504	0	0	6,582	6,581
Massachusetts	11,707	12,792	14,812	17,727	3,485	4,161	206	206	30,210	34,885
New Hampshire	2,687	2,612	2,545	2,532	1,118	1,109	0	0	6,349	6,253
Rhode Island	1,762	1,735	2,137	2,087	436	429	16	16	4,351	4,267
Vermont	1,235	1,183	1,163	1,143	796	804	0	0	3,195	3,130
Middle Atlantic	79,087	74,818	91,012	89,486	41,810	41,250	2,326	2,251	214,235	207,805
New Jersey	16,857	16,167	22,273	21,902	4,045	4,110	184	178	43,358	42,357
New York	29,335	28,226	43,631	42,835	9,766	9,684	1,728	1,612	84,460	82,357
Pennsylvania	32,895	30,425	25,109	24,749	27,999	27,455	414	461	86,416	83,091
East North Central	113,656	104,424	107,930	105,453	108,156	106,435	357	325	330,099	316,636
Illinois	27,753	25,421	29,607	28,727	24,846	24,029	317	285	82,523	78,461
Indiana	20,113	18,067	14,138	13,691	23,956	23,635	12	12	58,219	55,404
Michigan	20,596	19,361	22,689	22,526	17,346	17,047	4	3	60,635	58,938
Ohio	32,001	28,992	27,482	26,791	27,770	27,818	23	25	87,277	83,625
Wisconsin	13,193	12,583	14,013	13,717	14,238	13,907	0	0	41,445	40,207
West North Central	64,891	60,038	60,809	58,823	50,908	50,361	30	28	176,638	169,250
Iowa	8,786	8,269	7,216	7,028	13,399	12,964	0	0	29,402	28,261
Kansas	8,502	7,541	9,182	8,858	6,284	6,288	0	0	23,968	22,687
Minnesota	13,315	12,822	13,637	13,377	12,089	11,968	15	14	39,056	38,181
Missouri	22,107	19,842	18,393	17,565	6,620	6,826	14	14	47,135	44,246
Nebraska	6,149	5,905	5,615	5,515	6,101	6,222	0	0	17,865	17,642
North Dakota	3,050	2,851	3,842	3,653	4,810	4,494	0	0	11,701	10,997
South Dakota	2,982	2,809	2,924	2,826	1,605	1,599	0	0	7,510	7,235
South Atlantic	215,099	199,269	181,325	178,270	80,802	79,724	752	757	477,979	458,021
Delaware	2,995	2,708	2,515	2,395	1,235	1,211	0	0	6,744	6,314
District of Columbia	1,491	1,417	4,756	4,639	106	105	189	194	6,542	6,354
Florida	69,460	67,541	54,228	54,297	9,534	9,577	47	53	133,269	131,469
Georgia	34,485	31,322	27,365	26,745	18,431	18,152	100	98	80,381	76,317
Maryland	16,658	15,432	17,073	16,761	2,162	2,181	303	309	36,196	34,683
North Carolina	36,029	32,165	28,365	27,502	15,532	15,539	5	2	79,931	75,208
South Carolina	18,644	16,741	12,664	12,448	15,762	15,584	0	0	47,070	44,774
Virginia	28,301	25,745	29,823	29,115	9,830	9,687	108	101	68,063	64,649
West Virginia	7,036	6,199	4,537	4,368	8,210	7,688	0	0	19,783	18,255
East South Central	73,203	64,870	53,898	50,803	55,769	57,728	0	0	182,870	173,400
Alabama	19,227	17,348	13,251	12,927	19,699	19,269	0	0	52,177	49,545
Kentucky	16,522	14,660	11,358	10,850	15,649	16,027	0	0	43,529	41,536
Mississippi	11,235	9,939	8,024	7,813	9,780	9,606	0	0	29,040	27,358
Tennessee	26,218	22,923	21,265	19,212	10,641	12,826	0	0	58,125	54,962
West South Central	133,525	118,402	113,964	108,324	103,001	104,670	113	109	350,603	331,506
Arkansas	11,254	9,713	6,985	6,730	10,212	9,636	0	0	28,450	26,080
Louisiana	18,453	16,446	14,274	13,875	19,913	19,880	7	8	52,647	50,209
Oklahoma	14,494	12,798	12,147	11,535	10,489	10,088	0	0	37,130	34,422
Texas	89,324	79,444	80,559	76,183	62,387	65,066	105	102	232,376	220,795
Mountain	57,594	57,642	56,776	55,845	47,605	47,423	93	82	162,068	160,992
Arizona	19,762	19,906	17,111	17,043	7,902	7,889	5	4	44,780	44,843
Colorado	11,119	10,927	11,916	11,755	9,145	8,884	54	39	32,234	31,605
Idaho	4,905	5,143	3,696	3,698	5,342	5,168	0	0	13,943	14,010
Montana	3,089	3,105	2,907	2,933	2,483	2,492	0	0	8,479	8,530
Nevada	7,655	7,612	6,928	6,445	6,826	7,294	5	5	21,414	21,356
New Mexico	3,990	3,877	5,315	5,142	4,544	4,288	0	0	13,849	13,308
Utah	5,427	5,398	6,738	6,652	5,350	5,456	30	34	17,545	17,540
Wyoming	1,647	1,673	2,165	2,176	6,013	5,952	0	0	9,825	9,802
Pacific Contiguous	81,527	84,535	91,579	92,260	48,239	47,639	482	501	221,827	224,935
California	48,687	50,430	64,652	65,227	27,148	26,776	462	483	140,950	142,915
Oregon	11,349	11,788	9,619	9,547	6,838	6,852	15	15	27,821	28,203
Washington	21,491	22,317	17,308	17,486	14,252	14,012	5	3	53,056	53,817
Pacific Noncontiguous	2,703	2,711	3,305	3,364	2,802	2,876	0	0	8,810	8,951
Alaska	1,181	1,224	1,584	1,607	773	800	0	0	3,539	3,631
Hawaii	1,521	1,487	1,721	1,757	2,029	2,076	0	0	5,271	5,320
U.S. Total	848,993	795,088	790,688	775,513	548,251	547,888	4,478	4,377	2,192,410	2,122,866

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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, July 2018 and 2017 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	980	885	791	795	179	193	4	4	1,954	1,876
Connecticut	305	257	193	187	36	37	2	2	537	484
Maine	60	60	41	43	21	20	0	0	122	122
Massachusetts	427	405	405	429	78	93	2	2	912	928
New Hampshire	88	78	66	58	22	21	0	0	175	156
Rhode Island	66	55	57	52	10	9	0	0	133	117
Vermont	34	31	28	26	13	12	0	0	75	69
Middle Atlantic	2,341	2,257	1,958	1,966	445	431	38	38	4,782	4,691
New Jersey	571	563	462	469	63	65	2	2	1,099	1,100
New York	1,048	977	1,152	1,144	96	91	31	31	2,327	2,242
Pennsylvania	723	716	344	353	285	275	4	4	1,356	1,349
East North Central	2,666	2,513	1,770	1,714	1,143	1,140	3	3	5,582	5,370
Illinois	615	613	423	416	255	235	3	3	1,296	1,267
Indiana	408	388	241	232	257	265	0	0	906	885
Michigan	628	546	427	400	185	188	0	0	1,240	1,134
Ohio	694	655	434	424	273	275	0	0	1,401	1,354
Wisconsin	321	310	245	243	173	177	0	0	739	730
West North Central	1,389	1,456	1,044	1,056	659	666	0	0	3,093	3,180
Iowa	202	209	129	128	169	168	0	0	500	506
Kansas	205	227	170	169	76	79	0	0	452	475
Minnesota	290	288	237	247	153	148	0	0	680	683
Missouri	502	511	333	331	86	88	0	0	921	929
Nebraska	100	129	83	87	93	102	0	0	276	318
North Dakota	41	41	50	50	61	60	0	0	152	152
South Dakota	49	52	42	44	21	21	0	0	112	117
South Atlantic	4,507	4,623	2,775	2,844	844	832	9	10	8,136	8,308
Delaware	62	63	39	38	15	14	0	0	116	116
District of Columbia	32	35	91	86	1	2	3	3	126	126
Florida	1,466	1,540	805	851	113	117	1	1	2,385	2,509
Georgia	776	783	440	461	173	182	1	1	1,390	1,427
Maryland	373	388	281	294	29	29	4	4	687	714
North Carolina	698	688	428	413	171	161	0	0	1,297	1,262
South Carolina	433	429	232	233	158	157	0	0	822	818
Virginia	555	588	395	404	105	93	1	1	1,057	1,087
West Virginia	112	110	64	64	78	75	0	0	254	249
East South Central	1,413	1,378	943	918	494	543	0	0	2,849	2,839
Alabama	425	430	251	257	186	192	0	0	862	879
Kentucky	282	287	175	176	121	137	0	0	577	600
Mississippi	228	216	141	137	91	91	0	0	459	444
Tennessee	478	445	377	347	97	123	0	0	951	916
West South Central	2,812	2,646	1,611	1,559	944	921	2	1	5,369	5,128
Arkansas	203	192	92	102	95	98	0	0	390	392
Louisiana	339	329	213	215	164	177	0	0	717	721
Oklahoma	290	285	169	167	85	86	0	0	545	537
Texas	1,979	1,840	1,137	1,075	601	561	1	1	3,718	3,478
Mountain	1,486	1,487	984	979	557	558	1	1	3,029	3,025
Arizona	608	592	357	352	96	86	0	0	1,062	1,031
Colorado	260	255	205	201	109	109	1	1	575	566
Idaho	82	86	48	50	90	92	0	0	220	227
Montana	44	47	44	46	23	22	0	0	111	115
Nevada	224	233	102	98	83	86	0	0	409	418
New Mexico	107	107	96	97	43	43	0	0	245	247
Utah	135	140	100	104	53	57	0	0	288	301
Wyoming	27	27	31	31	61	61	0	0	119	119
Pacific Contiguous	2,316	2,200	2,364	2,162	881	817	7	7	5,569	5,187
California	1,899	1,792	2,006	1,823	713	644	7	7	4,625	4,266
Oregon	172	164	141	131	64	72	0	0	377	367
Washington	245	245	218	208	105	101	0	0	567	553
Pacific Noncontiguous	113	102	124	114	108	93	0	0	345	309
Alaska	33	32	42	42	22	20	0	0	96	94
Hawaii	80	69	82	72	86	73	0	0	249	215
U.S. Total	20,023	19,547	14,365	14,108	6,255	6,194	65	64	40,707	39,912

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2018 and 2017 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	5,651	5,319	4,871	4,847	1,192	1,208	31	27	11,744	11,401
Connecticut	1,599	1,467	1,186	1,132	244	235	14	11	3,044	2,845
Maine	437	442	280	284	142	140	0	0	858	865
Massachusetts	2,515	2,393	2,477	2,580	510	554	14	13	5,516	5,540
New Hampshire	525	495	404	371	145	136	0	0	1,074	1,002
Rhode Island	355	314	348	314	66	62	3	3	771	693
Vermont	221	208	176	167	84	82	0	0	482	457
Middle Atlantic	12,639	11,961	11,212	11,243	2,918	2,857	258	252	27,026	26,314
New Jersey	2,632	2,567	2,728	2,741	410	422	16	16	5,785	5,747
New York	5,402	5,056	6,233	6,261	599	566	211	203	12,445	12,086
Pennsylvania	4,605	4,337	2,251	2,241	1,909	1,869	31	33	8,796	8,481
East North Central	14,987	13,783	10,931	10,655	7,597	7,502	24	22	33,539	31,961
Illinois	3,472	3,209	2,646	2,565	1,643	1,547	21	18	7,781	7,339
Indiana	2,386	2,153	1,456	1,407	1,714	1,748	1	1	5,557	5,310
Michigan	3,240	3,010	2,558	2,493	1,276	1,258	0	0	7,074	6,761
Ohio	3,987	3,570	2,739	2,666	1,875	1,861	2	2	8,603	8,098
Wisconsin	1,902	1,841	1,531	1,524	1,090	1,087	0	0	4,523	4,451
West North Central	7,714	7,218	5,950	5,769	3,756	3,683	3	2	17,424	16,673
Iowa	1,106	1,033	714	672	883	802	0	0	2,703	2,507
Kansas	1,065	998	962	927	468	474	0	0	2,495	2,399
Minnesota	1,760	1,680	1,414	1,422	931	930	1	1	4,106	4,033
Missouri	2,488	2,257	1,740	1,648	473	482	1	1	4,702	4,387
Nebraska	647	637	501	496	468	483	0	0	1,615	1,616
North Dakota	309	292	346	335	409	388	0	0	1,064	1,016
South Dakota	340	322	274	269	124	124	0	0	738	715
South Atlantic	25,340	23,739	17,042	16,797	5,229	5,133	58	60	47,668	45,730
Delaware	376	363	238	242	95	95	0	0	709	700
District of Columbia	189	180	559	537	9	9	17	18	774	745
Florida	8,069	7,917	5,092	5,174	741	753	4	5	13,906	13,848
Georgia	3,965	3,707	2,661	2,667	1,074	1,056	6	5	7,705	7,435
Maryland	2,219	2,186	1,789	1,822	181	181	22	24	4,211	4,213
North Carolina	4,028	3,555	2,463	2,342	968	946	0	0	7,459	6,843
South Carolina	2,356	2,140	1,311	1,302	949	941	0	0	4,616	4,382
Virginia	3,336	2,970	2,498	2,292	672	637	9	8	6,515	5,907
West Virginia	802	720	430	420	541	515	0	0	1,773	1,655
East South Central	8,128	7,306	5,641	5,370	3,259	3,453	0	0	17,028	16,129
Alabama	2,362	2,191	1,497	1,500	1,189	1,195	0	0	5,048	4,885
Kentucky	1,712	1,549	1,082	1,047	863	899	0	0	3,657	3,495
Mississippi	1,275	1,119	852	804	591	589	0	0	2,718	2,513
Tennessee	2,779	2,448	2,209	2,019	615	769	0	0	5,603	5,235
West South Central	14,410	12,732	9,404	9,094	5,670	5,746	10	9	29,493	27,582
Arkansas	1,113	985	553	566	568	565	0	0	2,233	2,116
Louisiana	1,727	1,555	1,269	1,238	1,055	1,064	1	1	4,051	3,858
Oklahoma	1,472	1,337	955	918	542	533	0	0	2,968	2,788
Texas	10,100	8,855	6,627	6,372	3,506	3,584	9	8	20,241	18,820
Mountain	6,907	6,830	5,483	5,395	3,052	3,064	9	8	15,452	15,297
Arizona	2,538	2,461	1,843	1,808	515	506	0	0	4,896	4,774
Colorado	1,338	1,320	1,187	1,157	662	646	5	4	3,192	3,127
Idaho	505	516	298	296	357	349	0	0	1,159	1,161
Montana	343	341	296	299	124	126	0	0	762	765
Nevada	915	901	546	505	409	424	0	0	1,870	1,831
New Mexico	506	501	535	531	262	260	0	0	1,303	1,292
Utah	576	602	570	587	314	338	3	3	1,463	1,530
Wyoming	187	189	211	212	408	415	0	0	806	816
Pacific Contiguous	12,521	12,570	12,682	12,344	4,533	4,338	43	42	29,778	29,293
California	9,214	9,201	10,311	10,020	3,481	3,273	41	40	23,046	22,533
Oregon	1,234	1,256	868	848	396	420	1	1	2,499	2,525
Washington	2,073	2,114	1,504	1,476	656	645	0	0	4,233	4,235
Pacific Noncontiguous	746	699	804	782	657	604	0	0	2,208	2,085
Alaska	259	262	298	317	139	135	0	0	696	713
Hawaii	488	437	506	466	519	469	0	0	1,513	1,372
U.S. Total	109,044	102,157	84,020	82,298	37,862	37,587	434	423	231,359	222,465

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

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, July 2018 and 2017 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	19.93	18.79	15.91	15.26	12.87	12.69	8.41	7.81	17.25	16.34
Connecticut	20.88	20.23	15.84	16.35	13.48	13.70	12.03	10.52	18.09	17.87
Maine	16.31	15.96	11.88	12.19	8.88	8.97	--	--	12.86	12.95
Massachusetts	20.63	18.73	16.68	15.33	14.43	13.88	5.68	5.42	17.99	16.41
New Hampshire	18.88	18.98	15.55	14.64	13.33	12.19	--	--	16.68	16.03
Rhode Island	18.23	17.19	15.64	15.14	14.83	14.85	17.41	20.08	16.76	16.03
Vermont	17.86	17.74	15.06	14.71	10.58	10.18	--	--	15.03	14.65
Middle Atlantic	16.41	16.45	13.25	13.38	6.90	6.86	11.98	11.97	13.35	13.40
New Jersey	15.50	16.02	12.66	12.91	10.11	10.62	8.85	9.06	13.76	14.12
New York	19.38	18.81	16.05	16.12	6.28	5.92	13.33	13.62	16.22	15.97
Pennsylvania	13.96	14.31	8.71	8.90	6.65	6.65	7.58	6.79	10.07	10.24
East North Central	13.16	13.12	10.15	9.97	7.06	7.10	7.16	6.84	10.35	10.24
Illinois	11.76	12.07	8.95	8.82	6.62	6.33	6.98	6.56	9.36	9.35
Indiana	12.05	11.85	10.31	10.17	7.17	7.43	9.89	10.75	9.74	9.70
Michigan	15.98	15.69	11.50	10.91	7.51	7.40	11.14	11.94	12.27	11.70
Ohio	12.70	12.59	9.83	9.72	6.66	6.72	7.68	7.30	10.02	9.92
Wisconsin	14.28	14.65	10.95	11.20	7.91	8.23	13.46	13.81	11.08	11.34
West North Central	13.22	13.39	10.76	10.78	8.23	8.32	11.22	10.75	10.96	11.08
Iowa	14.47	14.59	11.69	11.58	8.36	8.42	--	--	11.06	11.14
Kansas	12.34	13.61	10.80	10.74	7.60	7.81	--	--	10.65	11.17
Minnesota	14.22	14.01	11.06	11.43	8.18	8.16	10.22	9.97	11.23	11.32
Missouri	13.12	13.16	10.89	10.77	8.32	8.30	12.21	11.57	11.63	11.60
Nebraska	11.89	12.00	9.68	9.57	8.42	8.68	--	--	9.84	10.06
North Dakota	11.86	11.70	9.47	9.55	8.56	8.69	--	--	9.58	9.66
South Dakota	12.42	12.48	9.53	9.86	7.99	8.01	--	--	10.21	10.40
South Atlantic	11.93	12.18	9.27	9.49	6.73	6.92	7.83	8.06	10.12	10.38
Delaware	12.02	12.71	9.27	9.42	7.71	7.45	--	--	10.26	10.56
District of Columbia	12.00	12.23	11.40	11.15	7.98	8.47	8.75	8.99	11.41	11.31
Florida	11.29	11.93	8.92	9.49	7.65	8.05	7.58	8.50	10.15	10.75
Georgia	12.28	12.59	9.64	10.09	6.12	6.68	6.36	6.19	10.13	10.54
Maryland	13.46	13.59	10.13	10.32	8.10	8.11	7.59	8.02	11.54	11.70
North Carolina	11.43	11.20	8.96	8.82	6.84	6.90	8.01	8.46	9.69	9.59
South Carolina	12.96	12.79	10.70	10.71	6.47	6.50	--	--	10.36	10.31
Virginia	12.33	12.41	8.39	8.32	6.91	6.78	8.18	7.65	9.83	9.89
West Virginia	11.42	11.60	9.25	9.21	6.56	6.60	--	--	8.87	8.95
East South Central	11.09	11.31	10.31	10.59	5.96	6.26	--	--	9.45	9.62
Alabama	12.28	12.53	11.14	11.54	6.24	6.60	--	--	9.92	10.26
Kentucky	10.35	10.64	9.40	9.66	5.49	5.76	--	--	8.52	8.70
Mississippi	10.96	11.10	9.95	10.12	6.11	6.32	--	--	9.23	9.36
Tennessee	10.68	10.83	10.41	10.67	5.92	6.31	--	--	9.78	9.83
West South Central	10.84	10.79	8.12	8.43	5.95	5.86	8.13	8.27	8.71	8.73
Arkansas	9.98	10.67	7.44	8.70	5.73	6.55	12.12	13.38	7.92	8.77
Louisiana	9.68	9.99	8.77	9.16	5.60	6.12	9.90	9.66	8.08	8.45
Oklahoma	10.32	10.29	8.10	8.27	5.34	5.58	--	--	8.39	8.51
Texas	11.25	11.04	8.06	8.30	6.20	5.72	8.00	8.16	8.98	8.82
Mountain	12.24	12.29	10.05	10.21	6.98	7.17	9.42	10.00	10.12	10.26
Arizona	12.92	12.74	11.48	11.54	7.68	7.41	11.42	11.24	11.71	11.63
Colorado	12.67	12.45	10.26	10.36	7.50	7.66	8.64	9.70	10.42	10.44
Idaho	10.46	10.58	8.06	8.21	7.06	7.36	--	--	8.29	8.53
Montana	11.72	11.59	10.41	10.26	5.76	5.54	--	--	9.30	9.20
Nevada	11.34	11.64	7.85	7.92	7.33	7.59	9.70	9.19	9.28	9.53
New Mexico	13.37	13.57	10.91	11.24	5.97	6.29	--	--	10.25	10.57
Utah	10.94	11.91	8.62	9.26	6.21	6.99	10.53	10.35	8.87	9.67
Wyoming	12.01	12.15	9.75	9.77	6.67	6.81	--	--	8.16	8.29
Pacific Contiguous	16.89	16.32	16.03	15.18	10.90	10.59	9.72	9.33	15.21	14.61
California	19.65	18.85	18.71	17.68	15.31	14.46	9.75	9.34	18.41	17.52
Oregon	11.25	10.94	9.41	8.90	5.04	6.47	9.18	9.29	8.78	8.98
Washington	9.74	9.86	8.60	8.47	4.84	4.71	8.88	8.69	7.87	7.81
Pacific Noncontiguous	29.76	26.63	25.48	23.40	24.91	21.14	--	--	26.54	23.58
Alaska	23.43	22.28	19.22	19.50	20.09	16.98	--	--	20.68	19.72
Hawaii	33.45	29.25	30.53	26.50	26.54	22.63	--	--	29.81	25.78
U.S. Total	13.12	13.11	10.98	10.99	7.34	7.35	10.14	10.11	11.02	11.02

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

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2018 and 2017 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD	July 2018 YTD	July 2017 YTD
New England	20.40	18.74	16.19	14.74	13.01	12.35	9.33	8.42	17.45	15.98
Connecticut	21.06	20.10	16.60	15.99	13.94	13.23	13.37	10.79	18.34	17.50
Maine	16.03	16.03	12.22	12.22	9.05	9.30	--	--	13.04	13.15
Massachusetts	21.48	18.71	16.72	14.55	14.63	13.31	6.69	6.38	18.26	15.88
New Hampshire	19.53	18.97	15.86	14.64	12.98	12.28	--	--	16.91	16.03
Rhode Island	20.12	18.08	16.28	15.05	15.17	14.39	16.89	19.47	17.72	16.23
Vermont	17.89	17.60	15.17	14.61	10.55	10.14	--	--	15.07	14.59
Middle Atlantic	15.98	15.99	12.32	12.56	6.98	6.93	11.07	11.20	12.62	12.66
New Jersey	15.61	15.88	12.25	12.52	10.14	10.28	8.62	9.03	13.34	13.57
New York	18.41	17.91	14.29	14.62	6.13	5.84	12.22	12.57	14.73	14.67
Pennsylvania	14.00	14.26	8.97	9.06	6.82	6.81	7.38	7.23	10.18	10.21
East North Central	13.19	13.20	10.13	10.10	7.02	7.05	6.84	6.68	10.16	10.09
Illinois	12.51	12.62	8.94	8.93	6.61	6.44	6.62	6.34	9.43	9.35
Indiana	11.86	11.92	10.30	10.28	7.15	7.40	10.45	11.41	9.55	9.58
Michigan	15.73	15.55	11.27	11.07	7.36	7.38	10.96	12.10	11.67	11.47
Ohio	12.46	12.31	9.97	9.95	6.75	6.69	7.21	7.56	9.86	9.68
Wisconsin	14.42	14.63	10.92	11.11	7.65	7.82	13.87	14.30	10.91	11.07
West North Central	11.89	12.02	9.79	9.81	7.38	7.31	8.99	8.88	9.86	9.85
Iowa	12.59	12.49	9.89	9.57	6.59	6.19	--	--	9.19	8.87
Kansas	12.52	13.24	10.48	10.46	7.45	7.54	--	--	10.41	10.57
Minnesota	13.22	13.10	10.37	10.63	7.70	7.77	9.56	9.54	10.51	10.56
Missouri	11.25	11.37	9.46	9.38	7.15	7.06	8.38	8.21	9.97	9.92
Nebraska	10.52	10.79	8.92	8.99	7.66	7.77	--	--	9.04	9.16
North Dakota	10.14	10.25	9.00	9.18	8.50	8.64	--	--	9.09	9.24
South Dakota	11.39	11.46	9.36	9.52	7.75	7.75	--	--	9.82	9.88
South Atlantic	11.78	11.91	9.40	9.42	6.47	6.44	7.67	7.96	9.97	9.98
Delaware	12.57	13.42	9.47	10.08	7.65	7.88	--	--	10.51	11.09
District of Columbia	12.67	12.73	11.76	11.59	8.20	8.32	8.91	9.41	11.83	11.72
Florida	11.62	11.72	9.39	9.53	7.77	7.86	7.93	8.47	10.43	10.53
Georgia	11.50	11.84	9.72	9.97	5.83	5.82	5.53	5.26	9.59	9.74
Maryland	13.32	14.16	10.48	10.87	8.38	8.31	7.31	7.87	11.63	12.15
North Carolina	11.18	11.05	8.68	8.51	6.23	6.09	8.09	8.70	9.33	9.10
South Carolina	12.64	12.78	10.36	10.46	6.02	6.04	--	--	9.81	9.79
Virginia	11.79	11.54	8.38	7.87	6.84	6.57	8.34	7.77	9.57	9.14
West Virginia	11.40	11.61	9.48	9.62	6.59	6.71	--	--	8.96	9.07
East South Central	11.10	11.26	10.47	10.57	5.84	5.98	--	--	9.31	9.30
Alabama	12.29	12.63	11.30	11.61	6.04	6.20	--	--	9.68	9.86
Kentucky	10.36	10.57	9.53	9.65	5.52	5.61	--	--	8.40	8.41
Mississippi	11.35	11.26	10.62	10.30	6.05	6.14	--	--	9.36	9.18
Tennessee	10.60	10.68	10.39	10.51	5.78	6.00	--	--	9.64	9.53
West South Central	10.79	10.75	8.25	8.40	5.50	5.49	8.45	8.39	8.41	8.32
Arkansas	9.89	10.14	7.92	8.42	5.56	5.86	11.37	11.89	7.85	8.11
Louisiana	9.36	9.45	8.89	8.92	5.30	5.35	9.90	10.04	7.69	7.68
Oklahoma	10.15	10.45	7.86	7.96	5.16	5.28	--	--	7.99	8.10
Texas	11.31	11.15	8.23	8.36	5.62	5.51	8.34	8.26	8.71	8.52
Mountain	11.99	11.85	9.66	9.66	6.41	6.46	9.48	9.93	9.53	9.50
Arizona	12.84	12.36	10.77	10.61	6.52	6.41	10.02	9.75	10.93	10.65
Colorado	12.03	12.08	9.96	9.84	7.24	7.27	8.90	10.02	9.90	9.89
Idaho	10.29	10.02	8.05	8.02	6.68	6.75	--	--	8.31	8.29
Montana	11.09	10.99	10.17	10.18	5.00	5.04	--	--	8.99	8.97
Nevada	11.95	11.84	7.88	7.84	5.99	5.82	8.20	8.21	8.74	8.57
New Mexico	12.67	12.91	10.06	10.33	5.77	6.07	--	--	9.41	9.71
Utah	10.62	11.15	8.45	8.82	5.87	6.20	10.65	10.09	8.34	8.73
Wyoming	11.38	11.30	9.73	9.75	6.79	6.97	--	--	8.20	8.33
Pacific Contiguous	15.36	14.87	13.85	13.38	9.40	9.11	8.86	8.30	13.42	13.02
California	18.92	18.24	15.95	15.36	12.82	12.22	8.84	8.27	16.35	15.77
Oregon	10.87	10.65	9.02	8.88	5.80	6.13	9.25	9.30	8.98	8.95
Washington	9.65	9.47	8.69	8.44	4.60	4.60	9.36	9.02	7.98	7.87
Pacific Noncontiguous	27.62	25.79	24.33	23.25	23.46	20.99	--	--	25.06	23.29
Alaska	21.91	21.41	18.81	19.69	17.94	16.88	--	--	19.65	19.65
Hawaii	32.05	29.39	29.42	26.52	25.56	22.58	--	--	28.69	25.78
U.S. Total	12.84	12.85	10.63	10.61	6.91	6.86	9.69	9.66	10.55	10.48

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

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - July 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,837	17,582,382	774,808	726	143,395,753
2009	125,208,829	17,562,235	757,537	704	143,529,305
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	132,572,042	18,323,932	821,267	85	151,717,327
Year 2016					
January	130,327,243	18,001,806	829,287	78	149,158,414
February	130,114,828	18,022,657	825,209	81	148,962,775
March	131,333,340	18,185,531	835,990	86	150,354,947
April	130,452,160	18,064,005	823,879	82	149,340,126
May	131,002,108	18,133,949	840,080	85	149,976,222
June	131,282,771	18,174,804	853,646	86	150,311,307
July	131,086,905	18,130,289	847,849	83	150,065,126
August	131,346,501	18,227,261	859,607	83	150,433,452
Sept	131,374,997	18,207,555	846,336	83	150,428,971
October	131,318,899	18,203,386	838,393	84	150,360,762
November	131,325,418	18,183,746	824,510	84	150,333,758
December	131,859,453	18,244,491	832,403	84	150,936,431
Year 2017					
January	131,863,431	18,225,561	808,008	84	150,897,084
February	131,376,684	18,136,945	797,401	84	150,311,114
March	132,758,623	18,322,415	816,055	84	151,897,177
April	131,802,218	18,162,546	803,225	85	150,768,074
May	133,093,868	18,323,788	829,718	85	152,247,459
June	132,810,755	18,339,737	837,435	85	151,988,012
July	132,296,207	18,344,928	831,768	85	151,472,988
August	132,980,967	18,427,812	847,850	85	152,256,714
Sept	132,427,305	18,344,964	826,688	85	151,599,042
October	133,098,434	18,426,160	829,169	85	152,353,848
November	133,065,798	18,420,680	813,432	85	152,299,995
December	133,290,218	18,411,649	814,459	85	152,516,411
Year 2018					
January	133,315,177	18,481,157	815,775	84	152,612,193
February	132,952,662	18,367,853	771,598	84	152,092,197
March	133,917,871	18,505,704	782,504	84	153,206,163
April	133,468,618	18,458,677	782,651	84	152,710,030
May	134,234,873	18,538,214	806,137	84	153,579,308
June	134,061,176	18,567,537	816,824	84	153,445,621
July	133,980,135	18,555,067	819,212	87	153,354,501
Rolling 12 Months Ending in July					
2017	131,935,588	18,243,530	827,072	84	151,006,274
2018	133,399,436	18,458,790	810,525	85	152,668,835

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 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State: July 2018 and 2017

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	6,406,436	6,351,009	882,445	888,500	20,014	26,814	6	6	7,308,901	7,266,329
Connecticut	1,504,440	1,495,196	153,982	153,116	4,220	4,414	3	3	1,662,645	1,652,729
Maine	673,108	714,400	92,190	100,572	2,906	3,146	0	0	768,204	818,118
Massachusetts	2,840,613	2,763,028	410,504	410,976	7,821	13,975	2	2	3,258,940	3,187,981
New Hampshire	624,012	619,249	108,182	107,492	3,145	3,248	0	0	735,339	729,989
Rhode Island	448,137	444,837	60,683	60,166	1,786	1,806	1	1	510,607	506,810
Vermont	316,126	314,299	56,904	56,178	136	225	0	0	373,166	370,702
Middle Atlantic	16,164,731	16,042,064	2,345,091	2,306,972	29,767	42,111	20	20	18,539,609	18,391,167
New Jersey	3,577,675	3,545,827	522,132	516,491	11,831	11,673	6	6	4,111,644	4,073,997
New York	7,192,125	7,143,466	1,108,897	1,092,018	6,685	7,580	8	8	8,307,715	8,243,072
Pennsylvania	5,394,931	5,352,771	714,062	698,463	11,251	22,858	6	6	6,120,250	6,074,098
East North Central	20,256,165	20,111,162	2,507,765	2,493,418	46,771	53,149	9	9	22,810,710	22,657,738
Illinois	5,300,362	5,269,751	615,571	609,947	4,047	5,732	3	3	5,919,983	5,885,433
Indiana	2,858,458	2,826,528	353,775	350,833	15,224	17,699	1	1	3,227,458	3,195,061
Michigan	4,392,228	4,361,454	550,299	550,994	NM	NM	2	2	4,948,151	4,918,296
Ohio	4,981,352	4,950,998	629,841	625,816	16,977	19,040	2	2	5,628,172	5,595,856
Wisconsin	2,723,765	2,702,431	358,279	355,828	NM	NM	1	1	3,086,946	3,063,092
West North Central	9,560,900	9,459,596	1,472,297	1,455,650	115,354	116,179	3	3	11,148,554	11,031,428
Iowa	1,396,975	1,382,164	246,166	243,319	NM	NM	0	0	1,650,067	1,632,387
Kansas	1,281,721	1,277,501	236,030	235,208	26,085	26,163	0	0	1,543,836	1,538,872
Minnesota	2,415,065	2,389,031	292,193	288,616	NM	NM	1	1	2,715,570	2,685,874
Missouri	2,820,169	2,779,405	384,058	380,291	6,780	8,380	2	2	3,211,009	3,168,078
Nebraska	862,182	854,751	165,445	161,758	56,062	55,458	0	0	1,083,689	1,071,967
North Dakota	380,661	377,769	74,018	73,355	8,111	7,972	0	0	462,790	459,096
South Dakota	404,127	398,975	74,387	73,103	NM	NM	0	0	481,593	475,154
South Atlantic	27,947,047	27,635,741	3,802,248	3,781,777	79,339	80,632	13	13	31,828,647	31,498,163
Delaware	429,757	423,700	54,837	53,940	593	1,190	0	0	485,187	478,830
District of Columbia	274,517	268,012	26,380	26,143	1	1	3	3	300,901	294,159
Florida	9,362,008	9,260,173	1,236,192	1,226,772	20,593	20,937	2	2	10,618,795	10,507,884
Georgia	4,385,620	4,331,511	585,511	580,986	19,999	19,950	1	1	4,991,131	4,932,448
Maryland	2,334,603	2,315,116	253,603	252,394	8,739	8,844	5	5	2,596,950	2,576,359
North Carolina	4,566,773	4,504,580	701,770	703,528	9,929	10,012	1	1	5,278,473	5,218,121
South Carolina	2,297,767	2,265,188	368,264	364,305	4,314	4,335	0	0	2,670,345	2,633,828
Virginia	3,439,061	3,410,703	431,060	429,682	3,781	3,805	1	1	3,873,903	3,844,191
West Virginia	856,941	856,758	144,631	144,027	11,390	11,558	0	0	1,012,962	1,012,343
East South Central	8,485,298	8,405,135	1,404,392	1,394,195	23,120	24,802	0	0	9,912,810	9,824,132
Alabama	2,257,129	2,243,116	370,674	369,699	8,315	8,252	0	0	2,636,118	2,621,067
Kentucky	2,001,294	1,983,824	303,770	300,949	6,085	7,719	0	0	2,311,149	2,292,492
Mississippi	1,317,537	1,311,271	239,680	238,180	7,876	7,438	0	0	1,565,093	1,556,889
Tennessee	2,909,338	2,866,924	490,268	485,367	844	1,393	0	0	3,400,450	3,353,684
West South Central	16,245,879	15,878,346	2,304,008	2,246,256	207,107	198,568	6	6	18,757,000	18,323,176
Arkansas	1,396,555	1,385,412	192,719	191,641	41,766	40,718	2	2	1,631,042	1,617,773
Louisiana	2,101,472	2,088,871	294,462	293,510	18,799	18,826	1	1	2,414,734	2,401,208
Oklahoma	1,786,173	1,770,407	285,872	284,427	17,994	18,052	0	0	2,090,039	2,072,886
Texas	10,961,679	10,633,656	1,530,955	1,476,678	128,548	120,972	3	3	12,621,185	12,231,309
Mountain	9,704,448	9,642,732	1,395,967	1,382,534	90,816	91,215	5	5	11,191,236	11,116,486
Arizona	2,787,938	2,744,115	321,722	320,580	6,368	6,917	2	2	3,116,030	3,071,614
Colorado	2,325,704	2,286,781	364,677	360,915	14,655	14,673	1	1	2,705,037	2,662,370
Idaho	742,537	726,446	110,614	108,704	28,762	28,480	0	0	881,913	863,630
Montana	512,395	505,475	110,681	108,789	9,451	9,685	0	0	632,527	623,949
Nevada	1,083,026	1,163,822	164,574	163,187	3,503	NM	1	1	1,251,104	1,330,499
New Mexico	903,414	893,645	139,383	138,855	8,548	8,597	0	0	1,051,345	1,041,097
Utah	1,074,940	1,050,500	125,077	122,756	9,674	9,595	1	1	1,209,692	1,182,852
Wyoming	274,494	271,948	59,239	58,748	9,855	9,779	0	0	343,588	340,475
Pacific Contiguous	18,483,877	18,050,957	2,326,987	2,280,559	204,701	196,112	25	23	21,015,590	20,527,651
California	13,655,137	13,294,880	1,686,930	1,651,756	149,348	141,191	17	15	15,491,432	15,087,842
Oregon	1,760,481	1,738,801	242,429	238,652	26,394	26,464	2	2	2,029,306	2,003,919
Washington	3,068,259	3,017,276	397,628	390,151	28,959	28,457	6	6	3,494,852	3,435,890
Pacific Noncontiguous	725,354	719,465	113,867	115,067	NM	NM	0	0	841,444	836,718
Alaska	289,714	287,102	54,067	53,621	NM	NM	0	0	345,207	342,121
Hawaii	435,640	432,363	59,800	61,446	797	788	0	0	496,237	494,597
U.S. Total	133,980,135	132,296,207	18,555,067	18,344,928	819,212	831,768	87	85	153,354,501	151,472,988

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

Table 6.1. Electric Generating Summer Capacity Changes (MW), June 2018 to July 2018

		As of End of June 2018	Activity During July 2018 as Reported to EIA		As of End of July 2018	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	88,700.0	185.6	2.3	88,883.3	183.3	1,369.0	4,988.9	467.5	8,547.8	0.0	0.0	467.5	8,547.8	89,350.8	97,431.1
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	29.3	0.0	0.0	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	29.3
..... Wind (Summer Capacity)	Utility Scale Facilities	88,729.3	185.6	2.3	88,912.6	183.3	1,369.0	4,988.9	467.5	8,547.8	0.0	0.0	467.5	8,547.8	89,380.1	97,460.4
..... Solar Photovoltaic	Utility Scale Facilities	27,356.6	127.0	0.0	27,483.6	127.0	2,576.8	5,219.1	210.2	4,215.7	0.0	1.2	210.2	4,214.5	27,693.8	31,698.1
..... 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	405.4	0.0	0.0	405.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	405.4	405.4
..... Solar Subtotal	Utility Scale Facilities	29,114.5	127.0	0.0	29,241.5	127.0	2,576.8	5,219.1	210.2	4,215.7	0.0	1.2	210.2	4,214.5	29,451.7	33,456.0
..... Conventional Hydroelectric	Utility Scale Facilities	79,942.2	10.0	183.2	79,769.0	-173.2	-288.8	-202.7	0.0	269.9	0.0	6.1	0.0	263.8	79,769.0	80,032.8
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,802.4	3.5	16.3	8,789.6	-12.8	-272.8	-278.3	0.0	167.9	0.0	24.8	0.0	143.1	8,789.6	8,932.7
..... Landfill Gas	Utility Scale Facilities	2,072.0	0.0	3.7	2,068.3	-3.7	-39.8	-39.8	0.0	4.2	0.0	6.6	0.0	-2.4	2,068.3	2,065.9
..... Municipal Solid Waste	Utility Scale Facilities	2,235.0	0.0	0.0	2,235.0	0.0	-11.8	-11.8	0.0	0.0	0.0	0.0	0.0	0.0	2,235.0	2,235.0
..... Other Waste Biomass	Utility Scale Facilities	838.5	0.0	66.0	772.5	-66.0	-5.7	-16.7	0.0	34.0	0.0	0.4	0.0	33.6	772.5	806.1
..... Biomass Sources Subtotal	Utility Scale Facilities	13,947.9	3.5	86.0	13,865.4	-82.5	-330.1	-346.6	0.0	206.1	0.0	31.8	0.0	174.3	13,865.4	14,039.7
..... Geothermal	Utility Scale Facilities	2,496.8	2.5	0.0	2,499.3	2.5	6.7	43.7	0.0	79.9	0.0	0.0	0.0	79.9	2,499.3	2,579.2
... Renewable Sources Subtotal	**Utility Scale Facilities**	**214,230.7**	**328.6**	**271.5**	**214,287.8**	**57.1**	**3,333.6**	**9,702.4**	**677.7**	**13,319.4**	**0.0**	**39.1**	**677.7**	**13,280.3**	**214,965.5**	**227,568.1**
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	256,143.6	765.2	396.6	256,512.2	368.6	10,136.3	11,374.3	2,324.1	13,061.4	0.0	50.0	2,324.1	13,011.4	258,836.3	269,523.6
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	126,773.7	325.5	1.6	127,097.6	323.9	-107.1	329.9	0.0	2,121.1	117.0	269.1	-117.0	1,852.0	126,980.6	128,949.6
..... Natural Gas Steam Turbine	Utility Scale Facilities	76,147.4	0.0	0.0	76,147.4	0.0	1,436.9	1,045.7	0.0	1.0	0.0	923.8	0.0	-922.8	76,147.4	75,224.6
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	4,388.4	225.6	0.0	4,614.0	225.6	329.1	375.2	9.3	317.6	0.0	2.1	9.3	315.5	4,623.3	4,929.5
..... 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	122.1	0.0	0.0	122.1	0.0	0.3	0.3	1.4	45.8	1.2	1.2	0.2	44.6	122.3	166.7
..... Natural Gas Subtotal	Utility Scale Facilities	463,685.2	1,316.3	398.2	464,603.3	918.1	11,795.5	13,125.4	2,334.8	15,546.9	118.2	1,246.2	2,216.6	14,300.7	466,819.9	478,904.0
..... Conventional Steam Coal	Utility Scale Facilities	245,151.3	0.0	0.0	245,151.3	0.0	-14,298.9	-17,081.5	0.0	17.0	0.0	4,506.4	0.0	-4,489.4	245,151.3	240,661.9
..... Coal Integrated Gasification Combined Cycle	Utility Scale Facilities	815.0	0.0	59.0	756.0	-59.0	-59.0	-59.0	0.0	0.0	0.0	0.0	0.0	0.0	756.0	756.0
..... Coal Subtotal	Utility Scale Facilities	245,966.3	0.0	59.0	245,907.3	-59.0	-14,357.9	-17,140.5	0.0	17.0	0.0	4,506.4	0.0	-4,489.4	245,907.3	241,417.9
..... Petroleum Coke	Utility Scale Facilities	1,468.9	59.0	0.0	1,527.9	59.0	61.2	61.2	0.0	0.0	0.0	0.0	0.0	0.0	1,527.9	1,527.9
..... Petroleum Liquids	Utility Scale Facilities	31,606.5	1.0	0.0	31,607.5	1.0	-615.7	-702.1	2.7	21.5	0.0	9.0	2.7	12.5	31,610.2	31,620.0
..... Other Gases	Utility Scale Facilities	2,375.8	0.0	0.0	2,375.8	0.0	-81.1	-81.1	0.0	0.0	0.0	0.0	0.0	0.0	2,375.8	2,375.8
... Fossil Fuels Subtotal	**Utility Scale Facilities**	**745,102.7**	**1,376.3**	**457.2**	**746,021.8**	**919.1**	**-3,198.0**	**-4,737.1**	**2,337.5**	**15,585.4**	**118.2**	**5,761.6**	**2,219.3**	**9,823.8**	**748,241.1**	**755,845.6**
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,854.7	1.3	0.6	22,855.4	0.7	46.7	46.7	0.0	57.0	0.0	0.0	0.0	57.0	22,855.4	22,912.4
..... Flywheels	Utility Scale Facilities	47.0	0.0	0.0	47.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	756.5	4.0	0.0	760.5	4.0	55.3	101.5	28.1	139.3	0.0	0.0	28.1	139.3	788.6	899.8
... Energy Storage Subtotal	**Utility Scale Facilities**	**23,658.2**	**5.3**	**0.6**	**23,662.9**	**4.7**	**107.0**	**153.2**	**28.1**	**196.3**	**0.0**	**0.0**	**28.1**	**196.3**	**23,691.0**	**23,859.2**
... Nuclear	**Utility Scale Facilities**	**99,628.9**	**0.0**	**0.0**	**99,628.9**	**0.0**	**-5.7**	**-5.7**	**0.0**	**465.0**	**0.0**	**1,284.9**	**0.0**	**-819.9**	**99,628.9**	**98,809.0**
... All Other	**Utility Scale Facilities**	**1,775.2**	**409.7**	**0.0**	**2,184.9**	**409.7**	**766.0**	**766.0**	**0.9**	**48.8**	**0.0**	**0.0**	**0.9**	**48.8**	**2,185.8**	**2,233.7**
TOTAL	**UTILITY SCALE FACILITIES**	**1,084,395.7**	**2,119.9**	**729.3**	**1,085,786.3**	**1,390.6**	**1,002.9**	**5,878.8**	**3,044.2**	**29,614.9**	**118.2**	**7,085.6**	**2,926.0**	**22,529.3**	**1,088,712.3**	**1,108,315.6**
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	17,959.6			18,304.6	345.0	2,080.5	3,494.5								
..... Estimated Total Solar Photovoltaic	All Facilities	45,316.2			45,788.2	472.0	4,657.3	8,713.6								
... Estimated Total Solar	**All Facilities**	**47,074.1**			**47,546.1**	**472.0**	**4,657.3**	**8,713.6**								

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

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

Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - July 2018

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
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	24,906.8	16,224.2	41,131.0
Year 2016			
January	12,470.5	9,865.6	22,336.1
February	12,615.2	10,123.1	22,738.3
March	12,822.0	10,440.2	23,262.2
April	13,298.0	10,687.8	23,985.8
May	13,419.8	10,927.9	24,347.7
June	13,635.3	11,185.2	24,820.5
July	14,360.4	11,385.3	25,745.7
August	15,297.1	11,670.6	26,967.7
Sept	16,064.3	11,913.3	27,977.6
October	16,477.2	12,156.4	28,633.6
November	17,192.0	12,446.4	29,638.4
December	20,192.9	12,765.1	32,958.0
Year 2017			
January	20,487.3	13,028.2	33,515.5
February	20,674.8	13,332.8	34,007.6
March	21,013.3	13,722.5	34,735.8
April	21,530.7	13,971.4	35,502.1
May	21,927.8	14,259.4	36,187.2
June	22,151.3	14,543.5	36,694.8
July	22,264.5	14,810.2	37,074.7
August	22,443.8	15,104.9	37,548.7
Sept	22,653.0	15,340.6	37,993.6
October	23,001.1	15,582.9	38,584.0
November	23,538.3	15,868.6	39,406.9
December	24,906.8	16,224.2	41,131.0
Year 2018			
January	25,689.0	16,655.5	42,344.5
February	25,809.8	16,893.0	42,702.8
March	26,390.2	16,971.7	43,361.9
April	26,726.6	17,228.3	43,954.9
May	27,182.7	17,552.2	44,734.9
June	27,356.6	17,959.6	45,316.2
July	27,483.6	18,304.6	45,788.2

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

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - July 2018

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	9,574.0	5,146.5	1,503.7	16,224.2
Year 2016				
January	5,428.5	3,419.8	1,017.3	9,865.6
February	5,627.1	3,458.3	1,037.7	10,123.1
March	5,852.7	3,521.8	1,065.8	10,440.2
April	6,051.1	3,552.6	1,084.1	10,687.8
May	6,238.7	3,589.1	1,100.0	10,927.9
June	6,432.3	3,640.4	1,112.5	11,185.2
July	6,592.9	3,660.7	1,131.7	11,385.3
August	6,785.8	3,734.2	1,150.5	11,670.6
Sept	6,957.7	3,794.2	1,161.5	11,913.3
October	7,147.1	3,837.6	1,171.8	12,156.4
November	7,332.8	3,930.7	1,182.9	12,446.4
December	7,527.0	4,022.8	1,215.3	12,765.1
Year 2017				
January	7,708.1	4,105.9	1,214.2	13,028.2
February	7,895.4	4,151.7	1,285.7	13,332.8
March	8,124.1	4,286.3	1,312.1	13,722.5
April	8,275.0	4,372.5	1,324.0	13,971.4
May	8,456.1	4,456.1	1,347.2	14,259.4
June	8,618.5	4,555.2	1,369.8	14,543.5
July	8,776.9	4,637.7	1,395.5	14,810.2
August	8,956.2	4,734.4	1,414.3	15,104.9
Sept	9,105.0	4,797.4	1,438.2	15,340.6
October	9,254.3	4,884.2	1,444.4	15,582.9
November	9,416.4	4,978.0	1,474.3	15,868.6
December	9,574.0	5,146.5	1,503.7	16,224.2
Year 2018				
January	9,787.4	5,349.7	1,518.4	16,655.5
February	9,996.0	5,378.3	1,518.8	16,893.0
March	10,169.7	5,289.9	1,512.1	16,971.7
April	10,320.8	5,370.4	1,537.1	17,228.3
May	10,496.8	5,494.7	1,560.7	17,552.2
June	10,720.2	5,791.4	1,448.1	17,959.6
July	10,883.9	5,887.0	1,533.7	18,304.6

Values are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
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.
In March 2018, the net decrease in sector capacity is due to the correction of incorrectly reported virtual net metering and net metering capacity

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, July 2018 and 2017 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	5,707.5	5,592.3	22,848.9	21,301.6	1,797.4	1,797.4	25.7	21.5	4,014.1	4,014.1	320.9	52.9	34,714.5	32,779.8
Connecticut	384.2	354.5	7,005.6	6,334.8	29.4	29.4	1.6	0.8	2,087.8	2,087.8	298.9	30.9	9,807.5	8,838.2
Maine	2,345.6	2,418.2	2,540.5	2,442.5	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,924.3	4,898.9
Massachusetts	1,305.6	1,196.3	9,110.9	8,344.8	1,768.0	1,768.0	5.9	2.5	677.2	677.2	0.0	0.0	12,867.6	11,988.8
New Hampshire	928.9	928.9	2,262.9	2,266.0	0.0	0.0	0.0	0.0	1,249.1	1,249.1	0.0	0.0	4,440.9	4,444.0
Rhode Island	113.3	104.8	1,831.1	1,815.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,944.4	1,920.4
Vermont	629.9	589.6	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	729.8	689.5
Middle Atlantic	10,922.1	10,955.9	70,332.8	68,287.3	3,409.8	3,409.1	72.4	71.4	19,295.6	19,294.5	425.4	11.2	104,458.1	102,029.4
New Jersey	936.5	884.1	12,404.1	12,339.6	420.0	420.0	1.0	1.0	4,107.9	4,107.9	15.7	11.2	17,885.2	17,763.8
New York	7,134.0	7,189.3	26,747.9	26,166.2	1,406.8	1,406.1	21.0	20.0	5,390.7	5,389.6	221.7	0.0	40,922.1	40,171.2
Pennsylvania	2,851.6	2,882.5	31,180.8	29,781.5	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	188.0	0.0	45,650.8	44,094.4
East North Central	11,813.0	10,921.1	111,989.9	114,159.1	2,179.0	2,133.0	167.4	187.4	19,024.4	19,033.7	188.1	110.1	145,361.8	146,544.4
Illinois	4,549.7	4,172.4	28,934.1	28,991.2	0.0	0.0	112.4	112.4	11,577.4	11,587.3	78.0	0.0	45,251.6	44,863.3
Indiana	2,442.8	2,306.2	23,892.4	23,121.0	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	26,446.2	25,538.2
Michigan	2,659.0	2,469.8	20,790.5	20,737.8	2,179.0	2,133.0	0.0	0.0	4,119.8	4,119.8	0.0	0.0	29,748.3	29,460.4
Ohio	931.3	847.7	25,036.5	26,788.6	0.0	0.0	33.0	53.0	2,134.0	2,134.0	0.0	0.0	28,134.8	29,823.3
Wisconsin	1,230.2	1,125.0	13,336.4	14,520.5	0.0	0.0	0.0	0.0	1,193.2	1,192.6	21.1	21.1	15,780.9	16,859.2
West North Central	26,888.5	25,571.2	60,745.4	60,954.2	657.0	657.0	3.2	2.0	5,443.4	5,444.9	24.5	24.5	93,762.0	92,653.8
Iowa	7,315.7	6,967.8	9,801.9	10,004.6	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,719.0	17,573.8
Kansas	5,136.2	5,136.0	9,781.8	9,793.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,143.8	16,155.0
Minnesota	5,066.6	4,567.6	10,301.0	10,088.3	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	17,044.0	16,332.3
Missouri	1,578.9	1,247.7	18,386.9	18,536.2	657.0	657.0	2.2	1.0	1,190.0	1,190.0	0.0	0.0	21,815.0	21,631.9
Nebraska	1,761.5	1,622.5	6,148.4	6,215.5	0.0	0.0	0.0	0.0	770.0	771.5	0.0	0.0	8,679.9	8,609.5
North Dakota	3,592.8	3,592.8	4,633.6	4,624.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,231.7	8,222.7
South Dakota	2,436.8	2,436.8	1,691.8	1,691.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,128.6	4,128.6
South Atlantic	19,027.6	17,229.3	160,696.6	159,808.0	7,905.2	7,905.2	94.5	80.5	24,602.6	24,598.6	452.7	446.7	212,779.2	210,068.3
Delaware	47.3	46.4	3,331.4	3,329.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,378.7	3,375.9
District of Columbia	23.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	21.0
Florida	2,402.5	1,727.3	51,922.4	53,296.7	0.0	0.0	14.0	0.0	3,572.0	3,572.0	348.7	348.7	58,259.6	58,944.7
Georgia	3,963.5	3,963.7	26,973.7	26,938.4	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,905.4	36,870.3
Maryland	1,148.3	1,087.1	11,851.3	10,287.3	0.0	0.0	13.0	13.0	1,707.8	1,707.8	6.0	0.0	14,726.4	13,095.2
North Carolina	6,167.1	5,547.1	21,644.3	21,646.9	86.0	86.0	1.0	1.0	5,117.6	5,113.6	54.0	54.0	33,070.0	32,448.6
South Carolina	2,137.7	1,934.6	12,137.2	11,422.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	23,567.1	22,649.1
Virginia	2,111.1	1,875.3	19,046.0	18,714.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,966.1	27,398.9
West Virginia	1,027.1	1,035.8	13,781.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	14,873.9	15,264.6
East South Central	8,762.9	8,536.4	64,840.1	65,720.3	1,616.3	1,616.3	1.0	0.0	10,984.1	10,984.1	1.4	1.4	86,205.8	86,858.5
Alabama	4,156.0	4,091.7	20,507.4	20,260.8	0.0	0.0	1.0	0.0	5,060.4	5,060.4	0.0	0.0	29,724.8	29,412.9
Kentucky	1,245.4	1,197.2	18,874.3	18,874.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,119.7	20,071.5
Mississippi	435.3	333.3	13,268.1	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,105.8	16,013.7
Tennessee	2,926.2	2,914.2	12,190.3	12,307.2	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,255.5	21,360.4
West South Central	36,483.7	33,207.7	139,983.8	143,552.8	286.0	286.0	98.3	41.0	8,910.7	8,910.7	512.7	512.9	186,275.2	186,511.1
Arkansas	1,694.3	1,610.1	11,193.0	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,733.1	14,701.1
Louisiana	683.2	682.1	20,600.7	20,697.2	0.0	0.0	0.5	0.0	2,132.9	2,132.9	288.7	288.9	23,706.0	23,801.1
Oklahoma	8,463.1	7,701.5	18,577.0	18,176.7	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	27,298.1	26,136.2
Texas	25,643.1	23,214.0	89,613.1	93,433.7	0.0	0.0	97.8	41.0	4,960.0	4,960.0	224.0	224.0	120,538.0	121,872.7
Mountain	26,249.3	25,403.7	62,321.3	63,386.7	778.8	778.8	35.6	42.6	3,937.0	3,937.0	126.3	126.3	93,448.3	93,675.1
Arizona	5,090.8	4,994.0	19,407.3	19,407.3	216.3	216.3	32.0	40.0	3,937.0	3,937.0	0.0	0.0	28,683.4	28,594.6
Colorado	4,284.6	4,162.2	11,119.2	11,345.2	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,976.6	16,079.2
Idaho	4,011.9	4,013.3	1,127.6	1,137.7	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,154.3	5,165.8
Montana	3,472.8	3,437.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,257.2	6,221.7
Nevada	3,595.6	3,354.0	7,821.6	7,791.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,423.7	11,152.1
New Mexico	2,398.7	2,061.0	5,966.8	6,828.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,368.1	8,891.9
Utah	1,600.5	1,587.5	7,360.2	7,348.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,000.9	8,975.9
Wyoming	1,794.4	1,794.4	6,778.2	6,788.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,584.1	8,593.9
Pacific Contiguous	67,251.6	66,039.7	48,043.1	49,372.2	4,225.9	4,225.9	220.7	170.1	3,417.0	3,417.0	106.3	106.3	123,264.6	123,331.2
California	30,320.4	29,198.0	38,965.2	40,294.3	3,911.9	3,911.9	208.3	157.5	2,240.0	2,240.0	106.3	106.3	75,752.1	75,908.0
Oregon	12,229.7	12,061.2	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,552.8	16,384.3
Washington	24,701.5	24,780.5	4,759.8	4,759.8	314.0	314.0	7.4	7.6	1,177.0	1,177.0	0.0	0.0	30,959.7	31,038.9
Pacific Noncontiguous	1,181.6	1,128.1	4,219.9	4,216.7	0.0	0.0	88.7	84.5	0.0	0.0	26.6	26.6	5,516.8	5,455.9
Alaska	538.2	538.0	2,161.6	2,159.5	0.0	0.0	46.2	45.0	0.0	0.0	0.0	0.0	2,746.0	2,742.5
Hawaii	643.4	590.1	2,058.3	2,057.2	0.0	0.0	42.5	39.5	0.0	0.0	26.6	26.6	2,770.8	2,713.4
U.S. Total	214,287.8	204,585.4	746,021.8	750,758.9	22,855.4	22,808.7	807.5	701.0	99,628.9	99,634.6	2,184.9	1,418.9	1,085,786.3	1,079,907.5

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

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

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, July 2018 and 2017 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	1,402.1	1,347.9	814.5	662.3	0.0	0.0	1,960.7	1,957.4	1,530.2	1,624.7	0.0	0.0	5,707.5	5,592.3	2,006.7	1,597.5	2,821.2	2,259.8	2,821.2	2,259.8
Connecticut	1.0	1.1	57.5	27.7	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	384.2	354.5	370.0	298.1	427.5	325.8	427.5	325.8
Maine	921.6	898.8	5.6	4.1	0.0	0.0	732.4	732.4	686.0	782.9	0.0	0.0	2,345.6	2,418.2	38.4	28.0	44.0	32.1	44.0	32.1
Massachusetts	94.4	92.9	658.5	554.6	0.0	0.0	267.4	265.9	285.3	282.9	0.0	0.0	1,305.6	1,196.3	1,363.8	1,090.2	2,022.3	1,644.8	2,022.3	1,644.8
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	241.0	0.0	0.0	928.9	928.9	77.4	63.1	77.4	63.1	77.4	63.1
Rhode Island	51.8	51.8	18.7	10.2	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	113.3	104.8	59.8	36.5	78.5	46.7	78.5	46.7
Vermont	150.2	120.2	74.2	65.7	0.0	0.0	331.2	329.4	74.3	74.3	0.0	0.0	629.9	589.6	97.3	81.5	171.5	147.2	171.5	147.2
Middle Atlantic	3,205.6	3,204.1	970.5	809.4	0.0	0.0	5,466.2	5,630.7	1,279.8	1,311.7	0.0	0.0	10,922.1	10,955.9	2,822.5	2,320.7	3,793.0	3,130.1	3,793.0	3,130.1
New Jersey	7.6	7.6	689.3	636.9	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	936.5	884.1	1,390.5	1,173.8	2,079.8	1,810.7	2,079.8	1,810.7
New York	1,826.2	1,824.7	229.4	121.7	0.0	0.0	4,554.3	4,718.8	524.1	524.1	0.0	0.0	7,134.0	7,189.3	1,130.2	890.2	1,359.6	1,011.9	1,359.6	1,011.9
Pennsylvania	1,371.8	1,371.8	51.8	50.8	0.0	0.0	899.6	899.6	528.4	560.3	0.0	0.0	2,851.6	2,882.5	301.7	256.7	353.5	307.5	353.5	307.5
East North Central	9,261.2	8,422.7	426.9	352.8	0.0	0.0	857.3	853.1	1,267.6	1,292.5	0.0	0.0	11,813.0	10,921.1	336.9	251.0	763.8	603.8	763.8	603.8
Illinois	4,380.8	3,983.8	34.8	32.8	0.0	0.0	34.1	34.1	100.0	121.7	0.0	0.0	4,549.7	4,172.4	59.8	39.1	94.6	71.9	94.6	71.9
Indiana	2,109.4	1,989.7	196.7	172.6	0.0	0.0	60.4	60.4	76.3	83.5	0.0	0.0	2,442.8	2,306.2	61.6	22.9	258.3	195.5	258.3	195.5
Michigan	1,735.8	1,583.8	97.2	62.5	0.0	0.0	266.9	263.0	559.1	560.5	0.0	0.0	2,659.0	2,469.8	56.6	58.3	153.8	120.8	153.8	120.8
Ohio	605.9	533.9	76.1	67.5	0.0	0.0	101.9	101.9	147.4	144.4	0.0	0.0	931.3	847.7	108.2	93.1	184.3	160.6	184.3	160.6
Wisconsin	429.3	331.5	22.1	17.4	0.0	0.0	394.0	393.7	384.8	382.4	0.0	0.0	1,230.2	1,125.0	50.6	37.6	72.7	55.0	72.7	55.0
West North Central	22,283.5	21,307.4	755.9	421.3	0.0	0.0	3,291.7	3,289.4	557.4	553.1	0.0	0.0	26,888.5	25,571.2	291.5	238.1	1,047.4	659.4	1,047.4	659.4
Iowa	7,140.2	6,798.9	7.7	2.6	0.0	0.0	146.4	144.9	21.4	21.4	0.0	0.0	7,315.7	6,967.8	80.1	58.7	87.8	61.3	87.8	61.3
Kansas	5,116.0	5,117.8	4.2	2.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,136.2	5,136.0	16.0	10.0	20.2	12.2	20.2	12.2
Minnesota	3,707.9	3,506.5	667.8	374.5	0.0	0.0	205.9	205.9	485.0	480.7	0.0	0.0	5,066.6	4,567.6	54.1	39.2	721.9	413.7	721.9	413.7
Missouri	954.3	654.3	59.6	31.2	0.0	0.0	548.5	545.7	16.5	16.5	0.0	0.0	1,578.9	1,247.7	134.8	126.3	194.4	157.5	194.4	157.5
Nebraska	1,454.3	1,319.1	15.6	9.8	0.0	0.0	275.9	277.9	15.7	15.7	0.0	0.0	1,761.5	1,622.5	5.7	3.2	21.3	13.0	21.3	13.0
North Dakota	3,073.0	3,073.0	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	3,592.8	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,436.8	0.6	0.5	1.6	1.5	1.6	1.5
South Atlantic	1,086.3	1,086.3	6,409.0	4,480.1	0.0	0.0	7,229.2	7,270.8	4,303.1	4,392.1	0.0	0.0	19,027.6	17,229.3	1,551.6	1,229.5	7,960.6	5,709.6	7,960.6	5,709.6
Delaware	2.0	2.0	33.1	32.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	47.3	46.4	72.9	63.1	106.0	95.3	106.0	95.3
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	12.0	0.0	0.0	23.0	12.0	45.9	32.9	45.9	32.9	45.9	32.9
Florida	0.0	0.0	1,117.2	382.6	0.0	0.0	54.5	54.5	1,230.8	1,290.2	0.0	0.0	2,402.5	1,727.3	243.3	168.5	1,360.5	551.1	1,360.5	551.1
Georgia	0.0	0.0	1,010.9	968.1	0.0	0.0	2,047.2	2,047.2	905.4	948.4	0.0	0.0	3,963.5	3,963.7	NM	131.9	NM	1,100.0	NM	1,100.0
Maryland	190.0	190.0	228.3	165.1	0.0	0.0	590.0	590.0	140.0	142.0	0.0	0.0	1,148.3	1,087.1	677.0	568.9	905.3	734.0	905.3	734.0
North Carolina	208.0	208.0	3,388.8	2,773.0	0.0	0.0	2,002.0	2,002.0	568.3	564.1	0.0	0.0	6,167.1	5,547.1	127.0	122.0	3,515.8	2,895.0	3,515.8	2,895.0
South Carolina	0.0	0.0	278.0	42.2	0.0	0.0	1,328.7	1,361.6	531.0	530.8	0.0	0.0	2,137.7	1,934.6	165.1	97.0	443.1	139.2	443.1	139.2
Virginia	0.0	0.0	352.7	116.9	0.0	0.0	866.0	866.0	892.4	892.4	0.0	0.0	2,111.1	1,875.3	56.5	40.0	409.2	156.9	409.2	156.9
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	340.8	349.5	0.0	0.0	0.0	0.0	1,027.1	1,035.8	6.3	5.2	6.3	5.2	6.3	5.2
East South Central	29.1	29.1	455.5	231.9	0.0	0.0	7,049.3	7,003.8	1,229.0	1,271.6	0.0	0.0	8,762.9	8,536.4	89.6	82.2	545.1	314.1	545.1	314.1
Alabama	0.0	0.0	179.3	93.0	0.0	0.0	3,290.8	3,270.2	685.9	728.5	0.0	0.0	4,156.0	4,091.7	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.3	10.0	0.0	0.0	1,146.9	1,115.0	72.2	72.2	0.0	0.0	1,245.4	1,197.2	20.7	17.0	47.0	27.0	47.0	27.0
Mississippi	0.0	0.0	160.6	58.6	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	435.3	333.3	7.0	6.4	167.6	65.0	167.6	65.0
Tennessee	29.1	29.1	89.3	70.3	0.0	0.0	2,611.6	2,618.6	196.2	196.2	0.0	0.0	2,926.2	2,914.2	55.5	53.8	144.8	124.1	144.8	124.1
West South Central	30,428.1	27,883.9	1,758.4	1,008.3	0.0	0.0	2,987.5	2,990.3	1,309.7	1,325.2	0.0	0.0	36,483.7	33,207.7	712.6	550.1	2,471.0	1,558.4	2,471.0	1,558.4
Arkansas	0.0	0.0	100.0	13.0	0.0	0.0	1,263.9	1,266.7	330.4	330.4	0.0	0.0	1,694.3	1,610.1	11.7	6.4	111.7	19.4	111.7	19.4
Louisiana	0.0	0.0	1.1	0.0	0.0	0.0	192.0	192.0	490.1	490.1	0.0	0.0	683.2	682.1	136.8	123.5	137.9	123.5	137.9	123.5
Oklahoma	7,494.8	6,743.2	30.5	20.5	0.0	0.0	861.6	861.6	76.2	76.2	0.0	0.0	8,463.1	7,701.5	6.4	3.5	36.9	24.0	36.9	24.0
Texas	22,933.3	21,140.7	1,626.8	974.8	0.0	0.0	670.0	670.0	413.0	428.5	0.0	0.0	25,643.1	23,214.0	557.6	416.7	2,184.4	1,391.5	2,184.4	1,391.5
Mountain	8,834.5	8,434.4	5,607.9	5,214.8	473.9	473.9	10,575.9	10,562.8	174.3	174.5	582.8	543.3	26,249.3	25,403.7	2,261.6	1,748.9	7,869.5	6,963.7	8,343.4	7,437.6
Arizona	267.3	267.3	1,776.5	1,679.7	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,090.8	4,994.0	1,264.0	927.5	3,040.5	2,607.2	3,335.9	2,902.6
Colorado	3,103.2	3,026.1	465.3	420.0	0.0	0.0	687.4	687.4	28.7	28.7	0.0	0.0	4,284.6	4,162.2	345.0	313.5	810.3	733.5	810.3	733.5
Idaho	970.5	970.5	240.0	240.0	0.0	0.0	2,707.5	2,708.9	83.9	83.9	10.0	10.0	4,011.9	4,013.3	20.1	9.8	260.1	249.8	260.1	249.8
Montana	703.5	678.5	17.0	8.0	0.0	0.0	2,749.3	2,747.8	3.0	3.0	0.0	0.0	3,472.8	3,437.3	12.3	9.7	29.3	17.7	29.3	17.7
Nevada	150.0	150.0	1,707.7	1,505.6	178.5	178.5	1,051.4	1,051.4	9.8	9.8	498.2	458.7	3,595.6	3,354.0	263.5	218.7	1,971.2	1,724.3	2,149.7	1,902.8
New Mexico	1,764.5	1,466.5	544.3	504.4	0.0	0.0	82.9	82.9	5.4	5.6	1.6	1.6	2,398.7	2,061.0	133.8	102.0	678.1	606.4	678.1	606.4
Utah	388.2	388.2	857.1	857.1	0.0	0.0	269.4	256.4	12.8	12.8	73.0	73.0	1,600.5	1,587.5	219.0	164.8	1,076.1	1,021.9	1,076.1	1,021.9
Wyoming	1,487.3	1,487.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,794.4	NM	2.8	NM	2.8	NM	2.8
Pacific Contiguous	12,116.0	11,941.7	10,183.8	8,985.3	1,284.0	1,284.0	39,854.7	39,917.1	1,939.6	2,042.3	1,873.5	1,869.3	67,251.6	66,039.7	7,633.8	6,234.0	17,817.6	15,219.3	19,101.6	16,503.3
California	5,832.7	5,658.4	9,921.2	8,884.9	1,284.0	1,284.0	10,198.0	10,197.7	1,230.5	1,323.2	1,854.0	1,849.8	30,320.4	29,198.0	7,370.4	6,016.7	17,291.6	14,901.6	18,575.6	16,185.6
Oregon	3,210.2	3,210.2	262.1	99.9	0.0	0.0	8,423.2	8,423.2	314.7	308.4	19.5	19.5	12,229.7	12,061.2	148.1	128.2	410.2	228.1	410.2	228.1
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,233.5	21,296.2	394.4	410.7	0.0	0.0	24,701.5	24,780.5	115.3	89.0	115.8	89.5	115.8	89.5
Pacific Noncontiguous	266.2	266.2	101.2	98.3	0.0	0.0	496.5	496.3	274.7	224.3	43.0	43.0	1,181.6	1,128.1	597.9	558.1	699.1	656.4	699.1	656.4
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.6	470.4	7.0	7.0	0.0	0.0	538.2	538.0	2.7	1.8	2.7	1.8	2.7	1.8
Hawaii	205.6	205.6	101.2	98.3	0.0	0.0	25.9	25.9	267.7	217.3	43.0	43.0	643.4	590.1	595.2	556.3	696.4	654.6	696.4	654.6
U.S. Total	88,912.6	83,923.7	27,483.6	22,264.5	1,757.9	1,757.9	79,769.0	79,971.7	13,865.4	14,212.0	2,499.3	2,455.6	214,287.8	204,585.4	18,304.6	14,810.2	45,788.2	37,074.7	47,546.1	38,832.6

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, July 2018 and 2017 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017	July 2018	July 2017
New England	13,404.6	12,074.9	1,212.8	1,101.7	1,605.7	1,051.7	917.3	917.3	0.0	0.0	5,708.5	6,156.0	0.0	0.0	22,848.9	21,301.6
Connecticut	3,147.1	2,576.5	567.6	467.3	872.4	424.6	383.4	383.4	0.0	0.0	2,035.1	2,483.0	0.0	0.0	7,005.6	6,334.8
Maine	1,250.0	1,250.0	301.1	297.1	108.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,540.5	2,442.5
Massachusetts	5,989.3	5,230.2	333.5	333.5	199.7	200.0	0.0	0.0	0.0	0.0	2,588.4	2,581.1	0.0	0.0	9,110.9	8,344.8
New Hampshire	1,231.0	1,231.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	97.1	0.0	0.0	2,262.9	2,266.0
Rhode Island	1,787.2	1,787.2	6.8	0.0	24.9	12.4	0.0	0.0	0.0	0.0	12.2	16.0	0.0	0.0	1,831.1	1,815.6
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	97.9	0.0	0.0	97.9	97.9
Middle Atlantic	28,713.0	26,323.4	7,801.3	7,712.9	14,674.0	13,681.6	13,530.2	14,985.2	78.6	78.6	5,406.5	5,380.4	129.2	125.2	70,332.8	68,287.3
New Jersey	8,519.5	8,118.9	2,964.0	2,857.3	42.6	493.2	609.0	613.0	11.6	11.6	234.0	222.2	23.4	23.4	12,404.1	12,339.6
New York	8,698.4	8,125.3	3,157.0	3,176.1	9,688.5	9,677.3	1,640.2	1,640.2	0.0	0.0	3,563.8	3,547.3	0.0	0.0	26,747.9	26,166.2
Pennsylvania	11,495.1	10,079.2	1,680.3	1,679.5	4,942.9	3,511.1	11,281.0	12,732.0	67.0	67.0	1,608.7	1,610.9	105.8	101.8	31,180.8	29,781.5
East North Central	20,747.0	18,116.1	26,540.1	26,465.8	4,208.5	3,907.8	56,679.3	61,604.1	247.6	247.6	2,474.5	2,651.8	1,092.9	1,165.9	111,989.9	114,159.1
Illinois	3,580.2	3,580.2	10,388.3	10,313.3	288.9	290.9	13,966.0	14,015.1	0.0	0.0	674.2	677.2	36.5	114.5	28,934.1	28,991.2
Indiana	3,807.0	2,406.0	3,355.8	3,363.2	729.1	725.9	15,281.4	15,773.8	0.0	0.0	99.8	237.8	619.3	614.3	23,892.4	23,121.0
Michigan	4,421.0	4,421.6	3,977.6	3,977.7	2,389.6	2,134.7	9,216.7	9,414.2	47.2	47.2	488.4	492.4	250.0	250.0	20,790.5	20,737.8
Ohio	6,188.0	4,965.4	5,446.1	5,431.7	189.2	158.8	12,274.4	15,263.6	142.0	142.0	609.7	640.0	187.1	187.1	25,036.5	26,788.6
Wisconsin	2,750.8	2,742.9	3,372.3	3,379.9	611.7	597.5	5,940.8	7,137.4	58.4	58.4	602.4	604.4	0.0	0.0	13,336.4	14,520.5
West North Central	6,633.1	6,641.9	11,730.9	11,566.8	4,351.2	4,189.8	34,116.0	34,582.9	32.0	32.0	3,873.8	3,932.4	8.4	8.4	60,745.4	60,954.2
Iowa	1,772.6	1,774.7	1,258.2	1,301.0	420.5	497.9	5,497.9	5,548.8	32.0	32.0	820.7	850.2	0.0	0.0	9,801.9	10,004.6
Kansas	266.0	266.0	2,148.3	2,154.0	2,096.7	2,111.0	4,714.2	4,714.2	0.0	0.0	556.6	548.0	0.0	0.0	9,781.8	9,793.2
Minnesota	2,172.0	2,172.0	2,671.4	2,437.9	361.1	375.1	4,309.4	4,309.4	0.0	0.0	787.1	793.9	0.0	0.0	10,301.0	10,088.3
Missouri	1,789.9	1,796.6	3,399.6	3,420.5	836.1	501.0	11,260.8	11,683.9	0.0	0.0	1,100.5	1,134.2	0.0	0.0	18,386.9	18,536.2
Nebraska	342.6	342.6	1,150.8	1,150.8	516.5	584.5	3,817.3	3,817.3	0.0	0.0	321.2	320.3	0.0	0.0	6,148.4	6,215.5
North Dakota	0.0	0.0	408.0	408.0	111.6	111.6	4,042.4	4,035.3	0.0	0.0	63.2	61.3	8.4	8.4	4,633.6	4,624.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	224.5	224.5	0.0	0.0	1,691.8	1,691.8
South Atlantic	55,889.9	52,646.5	32,061.6	32,413.1	7,307.0	7,245.3	54,752.3	56,870.7	142.8	83.8	10,408.0	10,413.6	135.0	135.0	160,696.6	159,808.0
Delaware	1,512.0	1,512.0	317.2	315.2	843.1	843.2	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,331.4	3,329.5
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,953.7	27,444.7	7,890.1	8,520.3	2,479.6	2,476.7	8,570.0	9,881.0	59.0	0.0	4,970.0	4,974.0	0.0	0.0	51,922.4	53,296.7
Georgia	7,963.9	7,963.9	7,787.2	7,787.2	832.9	796.4	9,360.5	9,360.5	83.8	83.8	945.4	946.6	0.0	0.0	26,973.7	26,938.4
Maryland	2,924.6	976.0	1,965.6	1,966.2	1,414.2	1,414.2	4,327.0	4,712.0	0.0	0.0	1,219.9	1,218.9	0.0	0.0	11,851.3	10,287.3
North Carolina	4,724.8	4,724.8	6,045.1	6,047.7	0.0	0.0	10,536.8	10,536.8	0.0	0.0	337.6	337.6	0.0	0.0	21,644.3	21,646.9
South Carolina	3,152.0	2,399.0	2,763.8	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	463.4	0.0	0.0	12,137.2	11,422.3
Virginia	7,658.9	7,626.1	4,194.3	3,894.3	1,068.2	1,045.8	3,778.0	3,800.4	0.0	0.0	2,346.6	2,348.0	0.0	0.0	19,046.0	18,714.6
West Virginia	0.0	0.0	1,089.3	1,071.3	123.0	123.0	12,558.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	13,781.3	14,163.3
East South Central	21,684.2	20,197.9	12,633.9	13,008.2	5,354.0	5,371.9	25,015.2	26,980.5	0.0	0.0	133.0	142.0	19.8	19.8	64,840.1	65,720.3
Alabama	9,618.4	9,441.4	2,532.2	2,532.2	2,791.3	1,941.4	5,503.1	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,507.4	20,260.8
Kentucky	1,763.0	1,763.0	4,976.6	4,976.6	260.0	260.0	11,862.8	11,862.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	18,874.3
Mississippi	7,847.7	7,590.5	1,344.6	1,718.9	2,236.5	3,104.3	1,804.0	1,820.0	0.0	0.0	35.3	44.3	0.0	0.0	13,268.1	14,278.0
Tennessee	2,455.1	1,403.0	3,780.5	3,780.5	66.2	66.2	5,845.3	7,014.3	0.0	0.0	43.2	43.2	0.0	0.0	12,190.3	12,307.2
West South Central	60,415.1	60,182.9	14,301.4	13,423.6	31,886.1	31,730.3	31,593.2	36,423.7	957.9	955.7	174.8	181.3	655.3	655.3	139,983.8	143,552.8
Arkansas	4,566.0	4,620.5	702.8	702.8	802.0	793.7	5,110.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,193.0	11,245.2
Louisiana	7,537.0	7,552.8	2,357.9	2,372.8	6,528.4	6,573.9	2,832.6	2,852.9	894.1	891.9	43.3	45.5	407.4	407.4	20,600.7	20,697.2
Oklahoma	7,247.6	6,783.7	1,684.9	1,287.9	5,235.5	5,164.9	4,334.6	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,577.0	18,176.7
Texas	41,064.5	41,225.9	9,555.8	9,060.1	19,320.2	19,197.8	19,316.0	23,589.0	63.8	63.8	44.9	49.2	247.9	247.9	89,613.1	93,433.7
Mountain	22,513.8	22,483.8	8,638.9	8,659.0	3,663.9	3,341.9	26,989.0	28,367.6	52.0	52.0	356.3	370.8	107.4	111.6	62,321.3	63,386.7
Arizona	9,891.6	9,891.6	2,367.6	2,367.6	1,303.6	1,303.6	5,754.0	5,754.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,407.3
Colorado	3,240.5	3,240.5	2,572.3	2,572.3	639.0	329.0	4,499.0	5,035.0	0.0	0.0	168.4	168.4	0.0	0.0	11,119.2	11,345.2
Idaho	547.7	547.7	552.0	562.1	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.6	1,137.7
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,445.0	5,415.0	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	7,791.6
New Mexico	1,465.0	1,465.0	966.0	976.0	849.4	849.4	2,634.0	3,471.0	0.0	0.0	52.4	66.9	0.0	0.0	5,966.8	6,828.3
Utah	1,830.0	1,830.0	520.2	520.2	328.2	316.2	4,654.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,360.2	7,348.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,406.0	6,411.6	0.0	0.0	5.8	5.8	105.9	110.1	6,778.2	6,788.0
Pacific Contiguous	26,032.3	25,991.3	11,550.4	11,790.3	7,768.1	8,877.0	1,982.0	1,982.0	17.0	17.0	471.9	485.3	221.4	229.3	48,043.1	49,372.2
California	20,003.8	19,962.8	10,697.2	10,937.1	7,512.1	8,621.0	57.0	57.0	17.0	17.0	456.7	470.1	221.4	229.3	38,965.2	40,294.3
Oregon	3,374.9	3,374.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	4,318.1
Washington	2,653.6	2,653.6	719.4	719.4	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,759.8	4,759.8
Pacific Noncontiguous	479.2	479.2	626.3	626.3	175.0	175.0	332.8	333.8	0.0	0.0	2,600.2	2,596.0	6.4	6.4	4,219.9	4,216.7
Alaska	479.2	479.2	626.3	626.3	175.0	175.0	152.8	153.8	0.0	0.0	728.3	725.2	0.0	0.0	2,161.6	2,159.5
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,871.9	1,870.8	6.4	6.4	2,058.3	2,057.2
U.S. Total	256,512.2	245,137.9	127,097.6	126,767.7	80,993.5	79,572.3	245,907.3	263,047.8	1,527.9	1,466.7	31,607.5	32,309.6	2,375.8	2,456.9	746,021.8	750,758.9

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

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	1	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV
2018	1	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC
2018	1	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT
2018	1	61060	Cypress Creek Renewables	IPP	LeSun CSG, LLC	MN	61544	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	61060	Cypress Creek Renewables	IPP	WrightSun CSG, LLC	MN	61547	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40802	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40803	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40804	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40805	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40806	1.0	Solar Photovoltaic	SUN	PV
2018	1	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC
2018	1	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV
2018	1	59218	East. Michigan Univ. Heating Plant	Commercial	East. Michigan Univ. Heating Plant	MI	59452	COGN2	6.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	7140	Georgia Power Co	Electric Utility	Comer Solar	GA	61554	1	2.0	Solar Photovoltaic	SUN	PV
2018	1	59462	Heelstone Energy Holdings, LLC	IPP	Chiloquin Solar, LLC	OR	61631	CHILO	9.9	Solar Photovoltaic	SUN	PV
2018	1	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT
2018	1	61227	Nautilus Solar Solutions	IPP	Kilroy Solar	CA	61628	KILRO	1.1	Solar Photovoltaic	SUN	PV
2018	1	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT
2018	1	49748	ORCAL Geothermal, Inc	IPP	Heber Geothermal	CA	54689	4	16.0	Geothermal	GEO	BT
2018	1	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT
2018	1	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV
2018	1	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	1	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	2	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	3	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	4	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	5	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	2	61105	ABEC #2 LLC	IPP	ABEC #2 dba West-Star Dairy	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61106	ABEC #3 LLC	IPP	ABEC #3 dba Lakeview Dairy	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61107	ABEC #4 LLC	IPP	ABEC #4 dba CE&S Dairy	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV2W	3.3	Batteries	MWH	BA
2018	2	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2018	2	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV
2018	2	56769	Consolidated Edison Development Inc.	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV
2018	2	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.4	Solar Photovoltaic	SUN	PV
2018	2	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV
2018	2	61171	Lake Waconia Solar IV LLC	IPP	Lake Waconia IV Community Solar Garden	MN	61573	40926	1.0	Solar Photovoltaic	SUN	PV
2018	2	61170	Lake Waconia Solar LLC	IPP	Lake Waconia Community Solar Garden	MN	61572	38610	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	61156	NMRD Data Center, LLC	IPP	Facebook 2 Solar Energy Center	NM	61557	FB2	10.0	Solar Photovoltaic	SUN	PV
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY
2018	2	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV
2018	2	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV
2018	2	61168	Veseli Solar I LLC	IPP	Veseli Community Solar Garden	MN	61570	40921	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV
2018	3	60571	AEP Onsite Partners	IPP	Sherburne Community Solar	MN	61672	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	3	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables Community Solar	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV
2018	3	61060	Cypress Creek Renewables	IPP	Gaston Solar I - SC	SC	61530	GEN1	10.2	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	3	61228	Dundas Solar Holdings LLC	IPP	Dundas Solar Holdings LLC CSG	MN	61626	DU	5.0	Solar Photovoltaic	SUN	PV
2018	3	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV
2018	3	60904	ETCAP NES CS MN 06 LLC	IPP	Armstrong Solar	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV
2018	3	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV
2018	3	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS
2018	3	61323	PowerFin ASL 1, LLC	IPP	PowerFin Kingsbery	TX	61700	PFPKB	2.6	Solar Photovoltaic	SUN	PV
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60520	SoCore Energy LLC	IPP	Carrizozo Solar	NM	61662	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV2	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV
2018	3	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Community Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV
2018	3	61397	Town of Otis	Commercial	Town of Otis Wind Energy Project	MA	61775	OT196	1.5	Onshore Wind Turbine	WND	WT
2018	3	61229	Waterville Solar Holdings LLC	IPP	Waterville Solar Holdings LLC	MN	61627	WA	5.0	Solar Photovoltaic	SUN	PV
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	321.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV
2018	4	61124	Great Valley Solar Portfolio Holdings, LLC	IPP	Great Valley Solar Portfolio Holdings, LLC	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61417	Lavio Solar, LLC	IPP	Lavio Solar	CA	61792	5002	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV
2018	4	61156	NMRD Data Center, LLC	IPP	Facebook 3 Solar Energy Center	NM	61558	FB3	10.0	Solar Photovoltaic	SUN	PV
2018	4	61169	New Germany Solar I LLC	IPP	New Germany Community Solar Garden	MN	61571	39062	1.0	Solar Photovoltaic	SUN	PV
2018	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	BA1	10.0	Batteries	MWH	BA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	PCEC	20.0	Solar Photovoltaic	SUN	PV
2018	4	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN3	6.0	Wood/Wood Waste Biomass	WDS	ST
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61418	Stage Gulch Solar, LLC	IPP	Stage Gulch Solar	CA	61791	5001	0.8	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV
2018	4	61172	Zumbro Solar LLC	IPP	Zumbro Community Solar Garden	MN	61574	38674	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV2	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Quincy II Solar Garden	CO	61752	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV01	1.0	Batteries	MWH	BA
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV1W	4.5	Batteries	MWH	BA
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT10	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT9	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC
2018	5	61442	Dignity - Siena Campus	IPP	Dignity - Siena Campus	NV	61825	PV1	1.4	Solar Photovoltaic	SUN	PV
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	61303	Grimm CSG LLC	IPP	Grimm Community Solar	MN	61689	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Raritan Solar - 53 Highway	NJ	61601	RARIT	8.4	Solar Photovoltaic	SUN	PV
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA
2018	5	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV
2018	5	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV
2018	5	60653	Stafford St Solar 2, LLC	IPP	Stafford St 2 Community Solar	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV
2018	5	61210	Stenner Creek Solar LLC	Commercial	Stenner Creek Solar	CA	61607	CPOLY	4.5	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	5	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV
2018	6	61187	DG Minnesota CSG, LLC	IPP	Big Lake Project	MN	61817	BIGLA	5.0	Solar Photovoltaic	SUN	PV
2018	6	61435	EGP Stillwater Solar PV II, LLC	IPP	EGP Stillwater Solar PV II, LLC	NV	61809	STWII	20.0	Solar Photovoltaic	SUN	PV
2018	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC
2018	6	61409	Heyer CSG LLC	IPP	Heyer CSG	MN	61793	HEYER	1.0	Solar Photovoltaic	SUN	PV
2018	6	57389	IKEA Property Inc	Commercial	IKEA Oak Creek Rooftop PV System	WI	61816	PV1	1.2	Solar Photovoltaic	SUN	PV
2018	6	49893	Invenergy Services LLC	IPP	Bishop Hill III	IL	61787	BHIII	119.0	Onshore Wind Turbine	WND	WT
2018	6	61369	Kimball Wind, LLC	Electric Utility	Kimball Wind	NE	56106	KIM01	30.0	Onshore Wind Turbine	WND	WT
2018	6	58822	MC Power Companies Inc	IPP	El Dorado Springs Solar Farm	MO	61566	EDSF1	2.5	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	1	4.1	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	2	4.4	Solar Photovoltaic	SUN	PV
2018	6	61211	Montgomery County Solar	Commercial	Montgomery County Solar	MD	61608	1	1.9	Solar Photovoltaic	SUN	PV
2018	6	56990	NJR Clean Energy Ventures Corporation	IPP	New Road Solar, LLC	NJ	61599	NEWRD	10.0	Solar Photovoltaic	SUN	PV
2018	6	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	328.0	Natural Gas Fired Combined Cycle	NG	CT
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	196.5	Natural Gas Fired Combined Cycle	NG	CA
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA
2018	6	61285	RJC II CSG LLC	IPP	RJC II Community Solar Garden	MN	61670	RJCII	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	6	61443	Solar Star RPUWD, LLC	IPP	RPUWD Scheuer Well Solar PV Project	CA	61824	RPU2	3.0	Solar Photovoltaic	SUN	PV
2018	6	61376	SunSelect 1	Industrial	SunSelect1	CA	61754	1	2.0	Natural Gas Internal Combustion Engine	NG	IC
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	6	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	6	61277	Vista Energy Storage, LLC	IPP	Vista Energy Storage System	CA	61661	VISTA	40.0	Batteries	MWH	BA
2018	7	61012	AES Distributed Energy	IPP	Anheuser-Busch Baldwinsville	NY	61575	BAL01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Columbia University - Johnson Farms	NY	61576	JF01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Columbia University - Minisink	NY	61578	MIN01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	St. Lawerence University - Sutton	NY	61579	SUT01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Time Warner Cable Enterprises - Martino	NY	61577	MRT01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV
2018	7	60146	Ameresco Federal Solutions	IPP	Fort Bliss (DEA EPIC)	TX	61887	DEPIC	2.0	Solar Photovoltaic	SUN	PV
2018	7	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV
2018	7	59474	BQ Energy LLC	IPP	Sunlight Beacon	NY	61922	BEACO	2.0	Solar Photovoltaic	SUN	PV
2018	7	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC1	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC10	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC11	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC12	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC2	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC3	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC4	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC5	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC6	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC7	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC8	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC9	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	61060	Cypress Creek Renewables	IPP	Old Caroleen Solar Farm	NC	61534	GEN1	2.0	Solar Photovoltaic	SUN	PV
2018	7	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Smyrna	DE	61800	AMPSM	1.2	Solar Photovoltaic	SUN	PV
2018	7	61407	Delta Solar Power II, LLC	IPP	Delta Solar Power II	MI	61955	DSPII	15.2	Solar Photovoltaic	SUN	PV
2018	7	61304	Foreman's Hill CSG LLC	IPP	Foreman's Hill Community Solar	MN	61690	FOREM	5.0	Solar Photovoltaic	SUN	PV
2018	7	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV
2018	7	11161	Loma Linda University	Commercial	Loma Linda University Cogen	CA	10206	GEN5	1.0	Petroleum Liquids	DFO	IC
2018	7	61383	MN Solar Community, LLC	IPP	Sherburne North Project	MN	61762	SHERB	5.0	Solar Photovoltaic	SUN	PV
2018	7	61461	Mustang Solar LLC	IPP	Mustang Solar	NC	61533	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV
2018	7	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-1	2.3	Onshore Wind Turbine	WND	WT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-2	2.3	Onshore Wind Turbine	WND	WT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-3	2.3	Onshore Wind Turbine	WND	WT
2018	7	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV
2018	7	61284	Scandia CSG LLC	IPP	Scandia Community Solar Garden	MN	61669	SCAND	2.5	Solar Photovoltaic	SUN	PV
2018	7	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV
2018	7	17650	Southern Power Co	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT
2018	7	61188	West Texas A&M University	Commercial	UL Advanced Wind Turbine Test Facility	TX	61589	UT-1	3.4	Onshore Wind Turbine	WND	WT

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	1	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	2	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	3	795.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 4	TX	6648	4	600.0	Conventional Steam Coal	LIG	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 5	TX	52071	5	600.0	Conventional Steam Coal	LIG	ST
2018	1	58247	National Centers for Animal Health	Commercial	NCAH Central Utility Plant	IA	58265	S-7A	1.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	1	606.0	Conventional Steam Coal	SUB	ST
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	2	602.0	Conventional Steam Coal	SUB	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	03	130.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	HP	0.0	Natural Gas Steam Turbine	NG	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	LP	0.0	Natural Gas Steam Turbine	NG	ST
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	1	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	2	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	3	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	4	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	5	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	6	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	12199	Montana-Dakota Utilities Co	Electric Utility	Portable Generator 1	ND	59196	IC1	2.0	Petroleum Liquids	DFO	IC
2018	3	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN2	6.0	Wood/Wood Waste Biomass	WDS	ST
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2018	4	11460	City of Macon - (MO)	Electric Utility	Macon	MO	2141	3	4.6	Petroleum Liquids	DFO	IC
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	1	594.0	Conventional Steam Coal	RC	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	2	594.0	Conventional Steam Coal	RC	ST
2018	5	57017	DOE National Renewable Energy Laboratory	Commercial	DOE Golden NWTC Turbine Side	CO	57693	ALSTO	3.0	Onshore Wind Turbine	WND	WT
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	3	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	4	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	7	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	8	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	1	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	2	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	3	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	4	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	5	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	6	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	7	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	8	2.9	Conventional Hydroelectric	WAT	HY
2018	5	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	5	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	57400	Evergreen Community Power, LLC	Industrial	Evergreen Community Power	PA	58023	ECP	25.0	Wood/Wood Waste Biomass	WDS	ST
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO4	1.0	Landfill Gas	LFG	IC
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO5	1.0	Landfill Gas	LFG	IC
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	3	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	4	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	1	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	2	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	1	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	2	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	3	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	5	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	6	12.0	Petroleum Liquids	DFO	GT
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Baxter Wilson	MS	2050	2	530.7	Natural Gas Steam Turbine	NG	ST
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Rex Brown	MS	2053	3	29.3	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	1	11.0	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	3	17.9	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H10	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H11	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H4	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H5	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H6	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H7	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H8	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H9	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Milton L Kapp	IA	1048	2	112.5	Natural Gas Steam Turbine	NG	ST
2018	6	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	11217	Los Angeles County Sanitation	IPP	Commerce Refuse To Energy	CA	10090	GEN1	10.0	Municipal Solid Waste	MSW	ST
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT1	1.0	Landfill Gas	LFG	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT2	1.0	Landfill Gas	LFG	IC
2018	7	56772	TX LFG Energy, LP	IPP	Coastal Plains	TX	55554	UNT2	1.7	Landfill Gas	LFG	IC

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)
2018	8	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV06	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2018	8	1015	Austin Energy	Electric Utility	Kingsberry Energy Storage System	TX	61741	KBESS	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2018	8	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.0
2018	8	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	8	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	8	61256	Betcher CSG LLC	IPP	Betcher Community Solar Garden	MN	61671	BETCH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	8	61410	Broad Street Fuel Cell, LLC	IPP	Trinity College Fuel Cell	CT	61786	MB-22	1.4	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	1.4
2018	8	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(OT) Other	9.3
2018	8	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	8	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	8	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	8	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	8	60609	Clean Focus Renewables, Inc.	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	8	61060	Cypress Creek Renewables	IPP	Antanavica Solar	MA	61526	GEN1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	8	61060	Cypress Creek Renewables	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	8	61060	Cypress Creek Renewables	IPP	West Moore Solar II	TX	61625	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	8	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	8	58970	Ecoplexus, Inc	IPP	Folsom SP and CSP Sacramento	CA	61698	FOLSM	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2018	8	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	8	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	8	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	8	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation California Training Facility	CA	61442	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	8	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Salinas Valley State Prison	CA	61444	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	8	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2018	8	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	8	61287	Johnson I CSG LLC	IPP	Johnson 1 Community Solar	MN	61686	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	8	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2018	8	61346	Lisbon East	IPP	COU Solar I, LLC	NY	61720	LECOU	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	8	61345	Lisbon West	IPP	CJ Solar I, LLC	NY	61719	LWCJ1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	8	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2018	8	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2018	8	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	8	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	8	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.1
2018	8	61209	NC 102 Project LLC	IPP	NC 102 Project LLC	NC	61610	NC102	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	8	56990	NJR Clean Energy Ventures Corporation	IPP	Old Bridge Solar Farm	NJ	61600	OLDBR	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.2
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	233.7
2018	8	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	8	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	8	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	8	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	8	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG3	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	8	61298	Pine Gate Renewables	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2018	8	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2018	8	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(OT) Other	3.0
2018	8	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2018	8	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2018	8	61522	Viridity Energy Solutions, Inc.	IPP	Viridity Energy Solutions ACUA	NJ	61923	VACUA	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	8	57081	WGL Energy Systems, Inc	IPP	Susquehanna University Solar	PA	61914	SO829	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2018	9	60281	Altus Power America Management, LLC	IPP	Big George PV	MA	61429	12344	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	9	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	GRDMT	4.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.4
2018	9	58261	Arkwright Summit Wind Farm LLC	IPP	Arkwright Summit Wind Farm LLC	NY	61673	WT	78.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.8
2018	9	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	9	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Aurora County Wind	SD	61745	ACSD	20.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Brule County Wind	SD	61746	BCSD	20.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	20.0
2018	9	4254	Consumers Energy Co	Electric Utility	Parkview Battery	MI	61909	PKVWB	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.1
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	61060	Cypress Creek Renewables	IPP	Staunton	IN	61885	GEN1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	9	61060	Cypress Creek Renewables	IPP	Sterling Solar (TX)	TX	61871	GEN1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	9	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Piqua Staunton	OH	61805	AMPPS	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2018	9	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	200.0
2018	9	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	1.9
2018	9	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	121.5
2018	9	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2018	9	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	9	60025	Greenbacker Renewable Energy Corporation	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(TS) Construction complete, but not yet in commercial operation	555.0
2018	9	61309	Johnson II CSG LLC	IPP	Johnson II Community Solar	MN	61695	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	61373	MERIT SI	IPP	Rotor Clip	NJ	61751	RCLIP	2.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2018	9	12199	Montana-Dakota Utilities Co	Electric Utility	Thunder Spirit Wind, LLC	ND	58965	2	48.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	48.0
2018	9	61487	Montevideo Solar LLC	IPP	Montevideo Solar LLC	MN	61870	MONTE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	56990	NJR Clean Energy Ventures Corporation	IPP	Springfield Solar Project	NJ	61907	NJLND	7.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	7.5
2018	9	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	9	61348	PCS Energy, LLC	Industrial	Aerolease	CA	61718	APLEX	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	9	56545	Pattern Operators LP	IPP	Stillwater Wind, LLC	MT	61858	WT	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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)
2018	9	61495	Persimmon Creek Wind Farm 1, LLC	IPP	Persimmon Creek Wind Farm 1, LLC	OK	61876	PCWF1	198.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.6
2018	9	61298	Pine Gate Renewables	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	9	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	160.0
2018	9	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	10.0
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	61441	Sun Farm VI, LLC	IPP	Sun Farm VI, LLC	NC	61842	PV1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	9	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2018	9	18454	Tampa Electric Co	Electric Utility	Balm Solar	FL	61654	PV1	74.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.4
2018	9	18454	Tampa Electric Co	Electric Utility	Payne Creek Solar	FL	61665	GEN1	70.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.3
2018	10	61012	AES Distributed Energy	IPP	Broadalbin-Perth Solar	NY	61958	BAP1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	10	61529	Adams Nielson Solar, LLC	IPP	Adams Nielson Solar	WA	61933	ADAMS	19.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.2
2018	10	61514	Agilitas Energy, LLC	IPP	Blydenburgh Solar Project	NY	61900	BLYD	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	10	61514	Agilitas Energy, LLC	IPP	Lincoln Ave Solar Project	NY	61899	LINC	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	10	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	CARPT	1.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.6
2018	10	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	TBESS	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2018	10	61230	CD Arevon USA, Inc.	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	252.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	3037	City of Carlyle - (IL)	Electric Utility	Carlyle	IL	936	11	2.8	Petroleum Liquids	DFO	IC	(OT) Other	2.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	10	61060	Cypress Creek Renewables	IPP	Buckleberry Solar	NC	61693	GEN	52.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.1
2018	10	61060	Cypress Creek Renewables	IPP	Chisum	TX	61810	GEN1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Eddy II	TX	61874	GEN1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	10	61060	Cypress Creek Renewables	IPP	Saint Albans Solar	VT	61928	GEN1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2018	10	61060	Cypress Creek Renewables	IPP	Yellow Jacket	TX	61873	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	10	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	2.0
2018	10	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61518	Frontenac Holdco LLC	IPP	Frontenac Holdco LLC	MN	61919	FRONT	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	10	7019	Gay & Robinson Inc	Industrial	Gay Robinson	HI	50333	HYD3	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2018	10	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	10	61334	Libra Community Solar Garden, LLC	IPP	Libra Community Solar	MN	61709	LIBR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41327	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41328	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41330	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61353	Philadelphia Authority for Industrial Development	IPP	Navy Yard Peaker Station	PA	61737	GEN4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.0
2018	10	61507	Plumsted 537 LLC	IPP	Plumsted 537 LLC	NJ	61892	PLMST	19.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	19.8
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	600.0
2018	10	61506	Stryker 22, L.L.C.	IPP	Stryker 22, L.L.C.	NJ	61891	EDGRD	19.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	19.8
2018	10	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	10	60947	Tesla Inc.	IPP	Estrella Mountain PV	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	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
2018	11	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	105.0
2018	11	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	11	61531	Casa Mesa Wind, LLC	IPP	Casa Mesa Wind Energy Center	NM	61925	CMNM	50.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.9
2018	11	61531	Casa Mesa Wind, LLC	IPP	Casa Mesa Wind Energy Center	NM	61925	CMNMB	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	3.3
2018	11	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(V) Under construction, more than 50 percent complete	58.2
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.9
2018	11	61060	Cypress Creek Renewables	IPP	Bovine	TX	61867	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Bronson	TX	61868	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Cascade Solar (TX)	TX	61875	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Hopewell Friends	NC	61883	GEN1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2018	11	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Mann Packing	CA	61443	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	11	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	2	1.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Rensselaer Solar Site 2	IN	61799	SREN2	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Site 2	IN	61729	SRIC2	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.5
2018	11	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	11	58489	OCI Solar Power	IPP	Ivory Solar	TX	61697	IVORY	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	11	34691	Ormat Nevada Inc	Commercial	McGinness Hills 3	NV	61912	OEC31	18.0	Geothermal	GEO	BT	(U) Under construction, less than or equal to 50 percent complete	28.4
2018	11	34691	Ormat Nevada Inc	Commercial	McGinness Hills 3	NV	61912	OEC32	22.0	Geothermal	GEO	BT	(U) Under construction, less than or equal to 50 percent complete	33.4
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	1.2
2018	11	61414	Rattlesnake Creek Wind Project, LLC	IPP	Rattlesnake Creek Wind Project	NE	59292	RCWP	318.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	318.1
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind II	CA	61582	VYGR2	128.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	128.7
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind III	CA	61583	VYGR3	43.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	43.2
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind IV	CA	61584	VYGR4	21.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	21.6
2018	12	61482	AES ES GILBERT, LLC	IPP	AES ES GILBERT	AZ	61861	SRP	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2018	12	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	61327	Arcturus Community Solar Garden, LLC	IPP	Arcturus Community Solar	MN	61705	ARCT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.0
2018	12	61530	Armadillo Flats Wind Project, LLC	IPP	Armadillo Flats Wind Project, LLC	OK	61926	ARM	250.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	250.0
2018	12	61328	Auriga Community Solar Garden, LLC	IPP	Auriga Community Solar	MN	61706	AURI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	166.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	166.0
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	212.0
2018	12	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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)
2018	12	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	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
2018	12	61545	Blacktip Solar, LLC	IPP	Blacktip Solar	SC	61939	5	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	61230	CD Arevon USA, Inc.	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2018	12	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Wistaria Ranch Solar	CA	61750	WICA	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	106.7
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYN	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYS	2.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	12	61540	Coolridge Solar I, LLC	IPP	Coolridge Solar 1, LLC	VT	61959	COLS	19.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.6
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	12	61528	Cumberland Land Holdings, LLC	IPP	Cumblerland Land Holdings, LLC	AL	61924	CUMB	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2018	12	61060	Cypress Creek Renewables	IPP	Copperfield	NC	61882	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	61060	Cypress Creek Renewables	IPP	Morning View	NC	61881	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Brewster	OH	61818	AMPBR	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	161.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Hamilton Solar Power Plant	FL	61807	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.0
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	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
2018	12	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	61404	Edenton Solar	IPP	Edenton Solar	NC	61781	EDE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	61413	Enel Green Power Diamond Vista Wind Project, LLC	IPP	Diamond Vista Wind Project, LLC	KS	61789	DV	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2018	12	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	56201	Engie North America	IPP	Live Oak Wind Project	TX	61782	WTGS	199.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.5
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	59745	First Solar Asset Management	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	59745	First Solar Asset Management	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	97.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
2018	12	61548	Gary Solar, LLC	IPP	Gary Solar	SC	61942	8	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	61214	Heartland Divide Wind Project, LLC	IPP	Heartland Divide Wind Project, LLC	IA	61609	1	103.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	103.5
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	33.3
2018	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	36.0
2018	12	49893	Invenergy Services LLC	IPP	Upstream Wind Energy LLC	NE	61784	UWE	202.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.5
2018	12	61342	Leo Community Solar, LLC	IPP	Leo Community Solar	MN	61713	LEO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	61133	Lorenzo Wind, LLC	IPP	Lorenzo Wind	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2018	12	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	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
2018	12	61381	Meadow Lake Wind Farm VI LLC	IPP	Meadow Lake Wind Farm VI LLC	IN	61756	MWLVI	200.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.4
2018	12	12341	MidAmerican Energy Co	Electric Utility	Ivester Wind Farm	IA	61911	WT1	90.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.8
2018	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	182.0
2018	12	61396	Midway Wind, LLC	IPP	Midway Wind, LLC	TX	61776	MIDWY	162.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	162.9
2018	12	61458	Minco Wind IV, LLC	IPP	Minco Wind IV, LLC	OK	61836	MIV	130.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	130.0
2018	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	220.0
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	CTG1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.6
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	STG	1.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.0
2018	12	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5
2018	12	61401	North 301 Solar	IPP	North 301 Solar	NC	61778	N301	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	12	13902	NorthWestern Energy	Electric Utility	Hauser	MT	2185	HAU7	3.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2018	12	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	12	58764	Origis Energy USA, Inc	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2018	12	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2018	12	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC	141.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	141.8
2018	12	61537	Pratt Wind, LLC	IPP	Pratt Wind, LLC	KS	61957	PW	220.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	243.0
2018	12	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	53.0
2018	12	61333	Sagitta Community Solar Garden, LLC	IPP	Sagitta Community Solar	MN	61708	SAGI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
2018	12	61556	South Solar, LLC	IPP	South Solar	SC	61949	13	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	12	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	12	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2018	12	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	92.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	92.0
2018	12	61527	Tahoka Wind, LLC	IPP	Tahoka Wind	TX	61921	TAH	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2018	12	18454	Tampa Electric Co	Electric Utility	Bonnie Mine Solar	FL	61655	PV1	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2018	12	18454	Tampa Electric Co	Electric Utility	Grange Hall Solar	FL	61656	PV1	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2018	12	18454	Tampa Electric Co	Electric Utility	Lithia Solar	FL	61663	GEN1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	12	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	55.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	55.0
2018	12	18454	Tampa Electric Co	Electric Utility	Peace Creek Solar	FL	61666	GEN	56.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.6
2018	12	61532	Techren Solar I LLC	IPP	Techren	NV	61611	TECH1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	394.0
2018	12	61436	Titan Solar, LLC	IPP	Titan Solar	CO	61811	PCEC	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSLFG	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	12	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2018	12	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
2018	12	61291	Wildcat Ranch Wind Project, LLC	IPP	Wildcat Ranch Wind Project	TX	61674	WT	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2018	12	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	12	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	12	61366	Woods Hill Solar, LLC	IPP	Woods Hill Solar	CT	61736	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2019	1	61541	1634 Solar, LLC	IPP	1634 Solar	SC	61935	3	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61543	ACE Solar, LLC	IPP	Ace Solar	SC	61937	18	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2019	1	61542	Abbot Solar, LLC	IPP	Abbot Solar	SC	61936	2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	1	61544	Bani Solar, LLC	IPP	Bani Solar	SC	61938	4	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61546	Bloom Solar, LLC	IPP	Bloom Solar	SC	61940	6	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61547	Bond Solar, LLC	IPP	Bond Solar	SC	61941	7	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC2	18.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC3	18.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC4	18.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	1	61060	Cypress Creek Renewables	IPP	Bar D	CO	61886	GEN1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2019	1	5701	El Paso Electric Co	Electric Utility	New Mexico Community Solar Facility	NM	61783	NMCSF	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	6452	Florida Power & Light Co	Electric Utility	Interstate Solar Energy Center	FL	61768	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Miami Dade Solar Energy Center	FL	61766	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Pioneer Trail Solar Energy Center	FL	61767	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Sunshine Gateway Solar Energy Center	FL	61763	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	61549	Goldenrod Solar, LLC	IPP	Goldenrod Solar	SC	61943	9	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61365	Hilltopper Wind Project, LLC	IPP	Hilltopper Wind Project	IL	61735	WT1	185.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	185.0
2019	1	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2019	1	61550	Jessamine Solar, LLC	IPP	Jessamine Solar	SC	61944	10	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2019	1	61289	Kaus Community Solar Garden, LLC	IPP	Kaus Community Solar	MN	61716	KAUS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2019	1	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	61552	Pelzer Solar I, LLC	IPP	Pelzer Solar I	SC	61945	19	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2019	1	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2019	1	61553	Redwing Solar, LLC	Industrial	Redwing Solar	SC	61946	11	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61554	River Solar, LLC	IPP	River Solar	SC	61947	12	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61555	Sapphire Solar, LLC	IPP	Sapphire Solar	SC	61948	17	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	BAT1	9.9	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	9.9
2019	1	61557	Vincent Solar, LLC	IPP	Vincent Solar	SC	61950	14	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61558	Watauga Solar, LLC	IPP	Watauga Solar	SC	61951	15	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61559	Whitt Solar, LLC	IPP	Whitt Solar	SC	61952	20	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61560	Willis Solar, LLC	IPP	Willis Solar	SC	61953	16	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA01	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA02	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA1C	11.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.8
2019	2	61259	Altair Community Solar Garden, LLC	IPP	Altair Community Solar Garden	MN	61645	ALTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61325	Aquarius Community Solar Gardens, LLC	IPP	Aquarius Community Solar	MN	61710	AQUA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2019	2	61326	Aquila Community Solar Gardens, LLC	IPP	Aquila Community Solar	MN	61704	AQUI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	2	61329	Canopus Community Solar Garden, LLC	IPP	Canopus Community Solar	MN	61707	CANO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61337	Cassiopeia Community Solar Garden, LLC	IPP	Cassiopeia Community Solar	MN	61711	CASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61467	Central CA Fuel Cell 2, LLC	IPP	Tulare WWTP BioMat Fuel Cell	CA	61846	MM27	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2019	2	61339	Deneb Community Solar Garden, LLC	IPP	Deneb Community Solar	MN	61715	DENE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	60747	Gamble Solar, LLC	IPP	Gamble Solar	NC	61127	12348	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2019	2	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
2019	3	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2019	3	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2019	3	61260	Capricornus Community Solar Garden, LLC	IPP	Capricornus Community Solar Garden	MN	61651	CAPR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	3	61338	Crux Community Solar Gardens, LLC	IPP	Crux Community Solar	MN	61712	CRUX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	3	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	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

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)
2019	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
2019	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
2019	3	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	93.5
2019	3	60846	GRP Madison Renewable Energy Facility, LLC	IPP	GRP Madison Renewable Energy Facility	GA	61213	GEN	65.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	65.0
2019	3	61456	Hope Farm Solar, LLC	IPP	Hope Farm Solar, LLC	RI	61840	HOPE	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	3	9417	Interstate Power and Light Co	Electric Utility	English Farms	IA	61565	1	169.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	169.9
2019	3	9417	Interstate Power and Light Co	Electric Utility	Upland Prairie	IA	61564	1	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2019	3	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.0
2019	3	60987	Lanikuhana Solar LLC	IPP	Lanikuhana Solar LLC	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.7
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	18	13.5	Petroleum Liquids	DFO	GT	(V) Under construction, more than 50 percent complete	15.4
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	19	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	220.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	220.8
2019	3	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
2019	3	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
2019	3	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	58519	Clean Energy Collective LLC	IPP	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	4	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2019	4	61060	Cypress Creek Renewables	IPP	Lampwick	TX	61872	GEN1	7.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	7.5
2019	4	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2019	4	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2019	4	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	4	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	4	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	4	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	152.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.5
2019	4	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
2019	4	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K4	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K5	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K6	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K7	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2019	5	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.2
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	525.0
2019	5	61519	Blackville Solar Farm, LLC	IPP	Blackville Solar Farm, LLC	SC	61918	1	7.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.2
2019	5	61060	Cypress Creek Renewables	IPP	West Moore Solar	TX	61624	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	5	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	5.4
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT2	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	5.4
2019	6	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2019	6	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
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	6	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2019	6	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	593.3
2019	6	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	158.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	158.0
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	352.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	352.8
2019	6	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	501	375.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	375.7
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	502	200.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.6
2019	6	61485	Rio Bravo Windpower, LLC	IPP	Rio Bravo Windpower, LLC	TX	61865	1	237.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	237.6
2019	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	210.0
2019	6	61492	StraightUp Solar	IPP	John A Logan College Solar	IL	61878	JALC	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2019	6	61533	Techren Solar II LLC	IPP	Techren Solar II LLC	NV	61930	TECH2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM28	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM29	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	7	61502	Sholes Wind Energy Center, LLC	IPP	Sholes Wind Energy Center	NE	61889	WSN1	160.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	160.0
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	8	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
2019	8	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	8	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2019	8	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	8	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	8	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	25.0
2019	8	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	8	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2019	9	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2019	9	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	9	61302	Depot Solar Center, 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
2019	9	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	150.0
2019	9	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	212.0
2019	9	58606	Mauka Fit One LLC	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.5
2019	9	61515	Phoebe Energy Project, LLC	IPP	Phoebe Solar	TX	61906	PHOEB	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2019	9	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2019	9	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
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	5.8
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	10.0
2019	9	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2019	9	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	61465	Brush Solar Center	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.8
2019	10	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
2019	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	210.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	210.4
2019	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
2019	10	61473	Morgan Solar Center	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	61330	Turtle Creek Wind Farm LLC	IPP	Turtle Creek Wind Farm LLC	IA	61638	TC1	200.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.1
2019	10	61472	Vale Solar Center	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	59260	Wright Solar Park LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	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
2019	11	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
2019	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind I	CA	60594	VYGR1	131.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	131.1
2019	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
2019	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
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2019	12	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	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
2019	12	15399	Avangrid Renewables LLC	IPP	Montague Wind Power Facility LLC	OR	58099	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
2019	12	61474	Baker City Solar	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	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
2019	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2019	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2019	12	61416	Cattle Ridge Wind Holdings, LLC	IPP	Cattle Ridge Wind Farm 1	SD	60503	CTTL1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	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
2019	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
2019	12	58695	Coronal Development Services	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
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	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
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	272.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	272.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2019	12	59745	First Solar Asset Management	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	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
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	40.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	139.0
2019	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
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	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
2019	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
2019	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
2019	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2019	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
2019	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
2019	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
2019	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
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2019	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2019	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2019	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
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2019	12	60442	New Colony Wind LLC	IPP	New Colony Wind Project	MT	60718	WT1	23.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	23.1
2019	12	56622	NextEra Energy Resources	IPP	Shaw Creek Solar, LLC	SC	61790	SHAWC	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	61480	Ontario Solar Center	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	56545	Pattern Operators LP	IPP	Crazy Mountain Wind LLC	MT	61859	WT	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	12	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV3	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	144.0
2019	12	60646	Reading Wind Energy, LLC	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.1
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	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
2019	12	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61455	Scituate RI Solar, LLC	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
2019	12	61321	Seabrook Solar, LLC	IPP	Seabrook Solar	SC	61701	GEN1	70.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
2019	12	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	180.0
2019	12	17650	Southern Power Co	IPP	Wildhorse Mountain Wind Facility	OK	61866	1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	225.0
2019	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
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	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
2019	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2019	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2019	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2019	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2019	12	60597	Violet Solar, LLC	IPP	Violet Solar	NC	60961	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	70.0
2019	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
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2020	1	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2020	1	55918	Acciona Wind Energy USA LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	144.9

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)
2020	1	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	1	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	61429	Harvest Wind Energy, LLC	IPP	Harvest Wind Energy Project	IN	61823	1	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
2020	1	61430	Summit Lake Wind, LLC	IPP	Summit Lake Wind Energy Project	MI	61812	1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	1	18454	Tampa Electric Co	Electric Utility	Alafia Solar	FL	61653	PV1	50.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	1	59056	Tri Global Energy, 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
2020	1	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.1
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	3	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	3	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
2020	3	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
2020	3	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
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	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
2020	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
2020	4	58695	Coronal Development Services	IPP	Casper Solar Center	MD	61320	CSPSC	36.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	36.7
2020	4	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	5	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	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
2020	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
2020	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
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	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
2020	6	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
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2020	6	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
2020	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	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
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	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	1,025.0
2020	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN2	228.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	253.0
2020	6	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2020	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	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
2020	6	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

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	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2020	7	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
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	9	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	9	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(OT) Other	5.3
2020	10	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
2020	10	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	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
2020	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
2020	12	60526	Alternative Power Development Northwest, LLC	IPP	Carter Solar One, LLC	ID	60896	CRTON	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar East, LLC	ID	60899	JPTEA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar North, LLC	ID	60897	JPTNO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar South, LLC	ID	60898	JPTSO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar West, LLC	ID	60900	JPTWE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	12	60560	Big Blue Wind Farm, LLC (TX)	IPP	Big Blue River Wind Farm	IN	60907	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	12	61257	Blazing Star 2 LLC	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	61030	Bluegrove Wind, LLC	IPP	Bluegrove Wind	TX	61400	BLUGR	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	61031	Byers Wind, LLC	IPP	Byers Wind	TX	61401	BYERS	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	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
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2020	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2020	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2020	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	218.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	230.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	110.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	116.0
2020	12	61010	Ord Mountain Solar, LLC	IPP	Ord Mountain Solar	CA	61372	ORDMT	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	56545	Pattern Operators LP	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	687.0
2020	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
2020	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
2020	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
2020	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
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV4	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV5	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN02	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2020	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2020	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	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	1	58702	Fluence	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Lake Hancock Solar	FL	61657	PV1	49.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2021	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2021	3	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	3	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2021	4	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	260.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2021	4	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
2021	4	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
2021	5	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

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	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2021	6	61523	225DD 8me LLC	IPP	Galloway Solar Farm	TX	61920	GSM01	360.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	360.0
2021	6	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
2021	6	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
2021	6	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
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	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
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	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
2021	6	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	397.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	397.8
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	338.9	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	406.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	249.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	297.5
2021	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2021	7	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
2021	7	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
2021	7	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
2021	7	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2021	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
2021	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
2021	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2021	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
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2021	12	60711	Battle Mountain SP, LLC	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	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2021	12	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2021	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
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	135.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	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
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	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	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
2022	1	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
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	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	319.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2022	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2022	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2022	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2022	6	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	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	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
2022	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
2022	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	40.0
2022	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	40.0
2022	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
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	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
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2023	12	59380	Enel Green Power NA, Inc.	IPP	Kingston Energy Storage, LLC	CA	61802	10001	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2023	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
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	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	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
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	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	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2026	12	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
2018	8	2872	Auburndale Peaker Energy Center LLC	IPP	Auburndale Peaker Energy Center	FL	55833	CTP	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	63	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	64	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	65	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	67	0.3	Other Natural Gas	NG	FC
2018	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2018	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2018	9	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2018	9	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	8927	Hunterdon Cogeneration LP	Commercial	Hunterdon Cogen Facility	NJ	54707	1	4.1	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	7	76.1	Conventional Steam Coal	SUB	ST
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	8	133.8	Conventional Steam Coal	SUB	ST
2018	11	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	11	13833	Northeastern Power Co	Electric CHP	Kline Township Cogen Facility	PA	50039	GEN1	52.0	Conventional Steam Coal	WC	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	59173	City of Tulare Water Pollution Control	Commercial	City of Tulare Water Facility	CA	59395	C2550	0.4	Other Waste Biomass	OBG	IC
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	15908	NRG California South LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	1	10.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	2	11.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	1	1752	Biola University	Commercial	Biola University	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	1	1752	Biola University	Commercial	Biola University	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	1	19145	DTE Tuscola, LLC	Industrial	Tuscola Station	IL	55245	TG1	3.8	Natural Gas Steam Turbine	NG	ST
2019	1	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	1	106.0	Conventional Steam Coal	BIT	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	2	166.0	Conventional Steam Coal	BIT	ST
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN1	42.0	Natural Gas Fired Combined Cycle	NG	CT
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN2	8.0	Natural Gas Fired Combined Cycle	NG	CA
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	12	2.8	Petroleum Liquids	DFO	GT
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	13	2.9	Petroleum Liquids	DFO	GT
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	12773	Monmouth Energy Inc	IPP	Monmouth Landfill Gas to Energy	NJ	55618	GEN1	3.3	Landfill Gas	LFG	GT
2019	5	12773	Monmouth Energy Inc	IPP	Monmouth Landfill Gas to Energy	NJ	55618	GEN2	3.3	Landfill Gas	LFG	GT
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	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
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	GT1	14.0	Petroleum Liquids	DFO	GT
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN1	2.8	Landfill Gas	LFG	GT
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN2	2.8	Landfill Gas	LFG	GT
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2019	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN1	46.3	Conventional Steam Coal	BIT	ST
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN2	46.3	Conventional Steam Coal	BIT	ST
2019	12	228	City of Albany - (MO)	Electric Utility	Albany	MO	2113	1	2.1	Petroleum Liquids	DFO	IC
2019	12	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 2 Power Plant	CA	10349	GEN1	49.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV2	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV3	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,000.4	Nuclear	NUC	ST
2020	4	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
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
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	50161	FirstEnergy Nuclear Operating Company	IPP	Davis Besse	OH	6149	1	894.0	Nuclear	NUC	ST
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
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	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	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	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN1	5.5	Natural Gas Steam Turbine	NG	ST
2020	12	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN2	5.5	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	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	49.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	46.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,041.3	Nuclear	NUC	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	50161	FirstEnergy Nuclear Operating Company	IPP	Beaver Valley	PA	6040	1	907.0	Nuclear	NUC	ST
2021	5	50161	FirstEnergy Nuclear Operating Company	IPP	Perry	OH	6020	1	1,240.0	Nuclear	NUC	ST
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	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	50161	FirstEnergy Nuclear Operating Company	IPP	Beaver Valley	PA	6040	2	901.0	Nuclear	NUC	ST
2021	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	801.8	Nuclear	NUC	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	SUB	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	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
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
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	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN1	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN2	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN3	55.0	Petroleum Liquids	JF	GT
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	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	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
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	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	1	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	2	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	3	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	ST4	64.0	Conventional Steam Coal	BIT	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	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
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	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	82.0	Natural Gas Fired Combustion Turbine	NG	GT
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	167.0	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	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
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	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	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	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	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	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	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
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	55.0	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	5	52.0	Petroleum Liquids	DFO	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
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
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	428.0	Conventional Steam Coal	SUB	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	Industrial	L'Oreal Piscataway	NJ	57868	UNIT1	1.1	Solar Photovoltaic	SUN	PV
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
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	75.0	Onshore Wind Turbine	WND	WT
2031	1	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	1	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2047	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2047	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV

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

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-July 2018

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.8%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.1%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	53.3%	55.5%	8.3%	12.4%	9.6%	11.5%	1.1%	2.6%
2017	53.5%	54.8%	9.4%	11.3%	NA	13.0%	2.0%	NA
Year 2016								
January	56.4%	56.4%	5.0%	7.1%	9.5%	10.1%	0.6%	3.1%
February	49.1%	53.6%	5.0%	7.4%	8.6%	10.6%	0.7%	2.8%
March	36.0%	50.2%	7.1%	10.2%	8.9%	8.9%	1.1%	2.2%
April	37.8%	47.6%	8.3%	11.7%	9.2%	9.7%	0.8%	2.1%
May	41.6%	52.5%	7.6%	12.3%	9.3%	11.4%	1.1%	2.5%
June	61.2%	63.9%	9.9%	17.5%	10.3%	13.3%	1.3%	2.1%
July	69.8%	68.2%	13.7%	23.1%	11.7%	16.9%	2.1%	2.1%
August	69.3%	70.8%	13.8%	21.1%	12.7%	15.1%	2.6%	2.3%
Sept	60.4%	60.7%	9.5%	14.6%	10.3%	12.9%	1.2%	2.3%
October	50.8%	47.8%	7.8%	11.4%	8.0%	8.8%	0.9%	2.4%
November	46.2%	46.3%	6.8%	6.5%	7.9%	9.9%	0.7%	2.8%
December	61.2%	47.5%	5.1%	5.4%	8.3%	10.1%	0.5%	4.0%
Year 2017								
January	59.5%	50.4%	6.6%	4.3%	NA	10.7%	1.6%	NA
February	49.4%	48.2%	6.9%	3.9%	NA	9.5%	2.0%	NA
March	46.1%	48.1%	9.8%	7.8%	NA	12.9%	2.1%	NA
April	43.7%	45.8%	8.3%	8.6%	NA	9.5%	1.2%	NA
May	48.3%	49.4%	9.0%	9.9%	NA	15.4%	1.9%	NA
June	58.4%	60.1%	9.9%	15.4%	NA	15.3%	1.8%	NA
July	67.1%	70.2%	12.8%	21.4%	NA	18.1%	2.1%	NA
August	62.9%	69.3%	11.0%	18.5%	NA	14.3%	2.2%	NA
Sept	53.4%	58.9%	11.7%	15.4%	NA	13.5%	3.0%	NA
October	47.5%	51.2%	10.0%	14.3%	NA	11.1%	2.6%	NA
November	49.3%	48.6%	8.2%	6.8%	NA	12.7%	1.5%	NA
December	56.1%	55.3%	8.1%	8.8%	NA	13.5%	1.5%	NA
Year 2018								
January	63.8%	54.0%	12.7%	11.8%	NA	18.2%	5.0%	NA
February	49.3%	55.1%	7.8%	5.8%	NA	11.2%	0.9%	NA
March	43.8%	51.6%	10.3%	8.0%	NA	10.4%	1.4%	NA
April	41.8%	48.1%	12.2%	8.1%	NA	12.5%	1.9%	NA
May	47.0%	52.8%	12.3%	16.6%	NA	9.1%	2.3%	NA
June	58.4%	61.9%	12.0%	17.7%	NA	15.0%	3.0%	NA
July	64.3%	72.9%	18.9%	25.5%	NA	14.3%	3.6%	NA

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available

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 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-July 2018

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.3%	38.2%	34.5%	25.1%	22.2%	69.7%	55.6%	73.9%
2017	92.2%	45.2%	36.7%	27.0%	21.8%	70.9%	50.7%	76.4%
Year 2016								
January	98.5%	43.6%	33.9%	15.2%	6.8%	68.3%	58.5%	73.4%
February	95.3%	43.8%	39.6%	22.9%	19.5%	67.6%	61.2%	73.2%
March	89.9%	45.9%	40.2%	24.9%	19.6%	67.2%	55.8%	72.5%
April	88.1%	44.6%	39.3%	27.2%	20.9%	69.3%	45.8%	68.8%
May	90.5%	42.8%	34.2%	30.2%	28.9%	72.9%	47.0%	73.9%
June	94.2%	40.6%	30.5%	30.3%	33.5%	72.0%	54.7%	71.2%
July	94.5%	36.1%	31.9%	31.7%	36.9%	70.9%	59.3%	72.2%
August	96.1%	33.0%	24.5%	31.7%	29.2%	70.3%	63.5%	73.0%
Sept	90.9%	28.6%	30.4%	28.5%	30.2%	67.9%	58.5%	75.5%
October	81.7%	29.3%	36.4%	24.0%	19.1%	63.8%	48.9%	74.6%
November	90.9%	32.8%	35.3%	20.4%	14.4%	72.6%	54.9%	77.7%
December	96.7%	37.9%	38.8%	16.2%	7.0%	73.4%	59.6%	80.1%
Year 2017								
January	98.7%	48.4%	36.6%	16.8%	7.3%	75.4%	49.3%	79.7%
February	94.9%	47.8%	42.5%	19.8%	11.7%	71.6%	55.5%	77.9%
March	87.8%	54.1%	44.6%	27.8%	22.9%	67.7%	51.8%	74.9%
April	79.1%	53.9%	44.9%	31.0%	24.9%	67.9%	51.2%	78.6%
May	82.7%	56.8%	38.7%	34.1%	31.0%	70.6%	47.0%	74.0%
June	93.4%	57.1%	34.5%	35.7%	37.9%	72.6%	49.1%	75.2%
July	96.2%	46.2%	27.5%	33.7%	25.4%	71.3%	51.0%	78.0%
August	97.6%	37.9%	22.3%	31.2%	27.6%	72.7%	49.0%	77.4%
Sept	94.9%	34.7%	31.5%	29.6%	29.2%	69.3%	48.2%	77.8%
October	89.0%	30.2%	41.6%	26.6%	24.1%	67.0%	52.4%	69.3%
November	92.9%	35.3%	39.4%	20.1%	10.3%	71.1%	51.5%	76.6%
December	99.4%	40.0%	37.2%	17.4%	9.0%	73.3%	52.7%	77.4%
Year 2018								
January	100.7%	44.9%	42.5%	18.7%	10.0%	72.1%	54.9%	76.4%
February	96.8%	48.8%	41.9%	22.8%	16.1%	76.5%	57.2%	80.6%
March	90.4%	44.8%	44.0%	26.2%	19.3%	72.8%	52.3%	78.4%
April	82.4%	49.7%	44.9%	31.2%	24.4%	71.6%	43.9%	70.5%
May	90.8%	53.9%	38.6%	31.9%	33.0%	68.9%	48.4%	79.0%
June	97.1%	51.4%	41.8%	34.5%	41.7%	76.5%	54.4%	76.4%
July	97.7%	43.3%	25.2%	31.6%	30.1%	75.6%	51.1%	78.0%

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available

Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.

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 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
Year 2016							
January	5,886,417	227,589	636,613	161,007	6,523,030	388,596	6,134,434
February	4,927,541	384,301	505,252	167,788	5,432,793	552,089	4,880,704
March	5,210,412	410,645	598,334	260,086	5,808,746	670,731	5,138,015
April	4,092,342	358,746	610,099	91,608	4,702,441	450,354	4,252,087
May	4,977,621	142,398	583,132	227,227	5,560,753	369,625	5,191,128
June	6,162,812	94,538	585,652	515,952	6,748,464	610,490	6,137,974
July	6,969,110	78,459	704,978	496,360	7,674,088	574,819	7,099,269
August	6,577,610	149,565	771,285	437,154	7,348,895	586,719	6,762,176
Sept	4,631,320	161,183	666,113	425,652	5,297,433	586,835	4,710,598
October	4,989,801	320,694	761,195	111,790	5,750,996	432,484	5,318,512
November	5,809,773	109,219	611,189	307,814	6,420,962	417,033	6,003,929
December	4,939,059	245,044	508,603	329,198	5,447,662	574,242	4,873,420
Year 2017							
January	6,345,401	172,909	673,166	310,843	7,018,567	483,752	6,534,815
February	5,120,144	359,401	552,254	330,610	5,672,398	690,011	4,982,387
March	5,612,473	663,648	410,568	334,509	6,023,041	998,157	5,024,884
April	5,262,194	619,414	299,908	486,903	5,562,102	1,106,317	4,455,785
May	4,912,110	341,657	171,906	489,911	5,084,016	831,568	4,252,448
June	5,637,814	242,997	355,162	568,400	5,992,976	811,397	5,181,579
July	5,328,084	65,828	585,167	642,440	5,913,251	708,268	5,204,983
August	5,874,172	63,435	634,751	709,103	6,508,923	772,538	5,736,385
Sept	4,715,752	139,000	512,536	553,042	5,228,288	692,042	4,536,246
October	3,504,501	165,550	447,906	544,420	3,952,407	709,970	3,242,437
November	3,379,626	263,999	550,385	558,909	3,930,011	822,908	3,107,103
December	4,217,049	214,960	581,888	528,915	4,798,937	743,875	4,055,062
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

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

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - July 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	6,473	9,023	3,544	0	19,040
2009	6,673	8,937	3,094	0	18,704
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	5,060	7,024	1,752	0	13,837
Year 2016					
January	515	648	158	0	1,321
February	447	647	176	0	1,270
March	499	738	208	0	1,445
April	506	665	176	0	1,346
May	556	746	202	0	1,504
June	594	742	201	0	1,537
July	621	773	193	0	1,587
August	604	722	205	0	1,530
Sept	594	751	187	0	1,532
October	540	704	180	0	1,424
November	541	723	190	0	1,454
December	509	709	176	0	1,394
Year 2017					
January	509	670	160	0	1,339
February	397	594	154	0	1,145
March	492	720	192	0	1,404
April	496	648	185	0	1,329
May	527	697	182	0	1,406
June	597	714	185	0	1,496
July	592	732	201	0	1,525
August	634	741	187	0	1,563
Sept	521	384	128	0	1,033
October	16	229	11	0	256
November	42	578	28	0	648
December	238	316	139	0	692
Year 2018					
January	389	558	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	680	145	0	1,404
Year to Date					
2016	3,737	4,959	1,313	0	10,010
2017	3,609	4,776	1,259	0	9,644
2018	3,350	4,707	1,207	0	9,264
Rolling 12 Months Ending in July					
2017	6,397	8,385	2,196	0	16,978
2018	4,801	6,956	1,701	0	13,457

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, 2008 - July 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,574	2,285	734	0	4,593
2009	1,313	1,868	518	0	3,699
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	1,008	1,545	328	0	2,881
Year 2016					
January	86	120	23	0	229
February	75	118	25	0	218
March	79	131	29	0	239
April	86	124	26	0	235
May	91	139	29	0	259
June	103	141	30	0	274
July	110	150	30	0	291
August	118	154	36	0	308
Sept	111	146	31	0	288
October	108	155	33	0	296
November	102	147	32	0	282
December	101	152	31	0	284
Year 2017					
January	102	142	30	0	273
February	90	143	31	0	264
March	96	151	34	0	280
April	99	143	34	0	276
May	108	157	34	0	299
June	117	151	33	0	302
July	118	160	36	0	315
August	130	166	35	0	331
Sept	91	74	21	0	186
October	3	46	2	0	51
November	8	115	5	0	128
December	45	98	34	0	177
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	280
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
July	122	166	29	0	317
Year to Date					
2016	630	923	193	0	1,745
2017	730	1,047	232	0	2,009
2018	690	1,104	232	0	2,026
Rolling 12 Months Ending in July					
2017	1,270	1,801	395	0	3,466
2018	968	1,602	328	0	2,898

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, 2008 - July 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,318,498	133,223	1,225	0	1,452,946
2009	1,330,507	132,620	828	0	1,463,955
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	1,337,741	127,064	617	0	1,465,421
Year 2016					
January	1,327,936	127,058	640	0	1,455,634
February	1,328,227	127,040	637	0	1,455,904
March	1,329,387	127,155	636	0	1,457,178
April	1,331,140	127,236	635	0	1,459,011
May	1,332,103	127,264	636	0	1,460,003
June	1,332,712	127,158	635	0	1,460,505
July	1,333,672	127,327	633	0	1,461,632
August	1,333,858	127,218	631	0	1,461,707
Sept	1,331,317	126,967	627	0	1,458,911
October	1,334,555	127,221	626	0	1,462,402
November	1,335,163	127,237	629	0	1,463,029
December	1,335,753	127,265	627	0	1,463,645
Year 2017					
January	1,336,466	127,250	626	0	1,464,342
February	1,337,086	127,228	625	0	1,464,939
March	1,335,398	127,146	619	0	1,463,163
April	1,337,149	127,085	619	0	1,464,853
May	1,337,941	127,047	617	0	1,465,605
June	1,339,358	127,118	615	0	1,467,091
July	1,338,876	127,048	613	0	1,466,537
August	1,337,743	127,025	614	0	1,465,382
Sept	1,338,958	127,055	614	0	1,466,627
October	1,337,246	126,947	614	0	1,464,807
November	1,338,102	126,940	612	0	1,465,654
December	1,338,568	126,876	611	0	1,466,055
Year 2018					
January	1,338,417	126,681	611	0	1,465,709
February	1,337,561	126,422	612	0	1,464,595
March	1,338,960	126,367	613	0	1,465,940
April	1,339,727	126,216	612	0	1,466,555
May	1,340,002	126,123	610	0	1,466,735
June	1,339,841	126,006	610	0	1,466,457
July	1,340,490	125,949	607	0	1,467,046
Rolling 12 Months Ending in July					
2017	1,336,077	127,153	623	0	1,463,852
2018	1,338,801	126,551	612	0	1,465,964

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, 2008 - July 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	24.32	25.32	20.72	--	24.12
2009	19.68	20.91	16.73	--	19.78
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	19.91	22.00	18.73	--	20.82
Year 2016					
January	16.78	18.54	14.39	--	17.36
February	16.74	18.31	14.23	--	17.19
March	15.90	17.70	14.02	--	16.55
April	16.91	18.58	14.52	--	17.42
May	16.33	18.63	14.61	--	17.24
June	17.32	19.01	15.12	--	17.85
July	17.78	19.39	15.74	--	18.31
August	19.50	21.38	17.42	--	20.11
Sept	18.66	19.42	16.61	--	18.78
October	20.07	22.02	18.35	--	20.82
November	18.88	20.34	17.04	--	19.37
December	19.79	21.45	17.90	--	20.40
Year 2017					
January	20.01	21.16	18.50	--	20.40
February	22.71	24.01	20.18	--	23.05
March	19.43	20.96	17.51	--	19.95
April	20.06	22.13	18.16	--	20.80
May	20.51	22.49	18.76	--	21.27
June	19.63	21.18	17.91	--	20.16
July	19.93	21.87	18.17	--	20.63
August	20.47	22.39	18.64	--	21.16
Sept	17.51	19.24	16.12	--	17.98
October	19.09	19.91	18.17	--	19.78
November	18.76	19.91	18.17	--	19.76
December	19.07	30.87	24.37	--	25.52
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	--	25.97
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
Year to Date					
2016	16.86	18.61	14.67	--	17.44
2017	20.23	21.92	18.40	--	20.83
2018	20.61	23.44	19.20	--	21.87
Rolling 12 Months Ending in July					
2017	19.85	21.48	18.00	--	20.42
2018	20.16	23.03	19.31	--	21.53

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

Table 8.5. Net Summer Capacity (MW) of Existing Utility Scale Units by Technology for Puerto Rico, 2007-July 2018

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,324	0	3,343	3	0	5,221
2008	454	98	1,324	0	4,087	3	0	5,966
2009	454	98	1,324	0	4,152	3	0	6,031
2010	454	98	1,324	0	4,152	3	0	6,031
2011	454	98	1,324	0	4,152	8	0	6,036
2012	454	98	1,324	0	4,152	25	98	6,152
2013	454	98	1,324	0	4,152	28	98	6,155
2014	454	98	1,324	0	4,152	40	99	6,167
2015	454	98	1,324	9	4,156	72	99	6,212
2016	454	98	1,324	33	4,156	147	99	6,311
2017	454	98	1,324	33	4,156	147	99	6,311
Year 2018								
January	454	98	1,324	33	4,131	142	99	6,282
February	454	98	1,324	33	4,131	142	99	6,282
March	454	98	1,324	33	4,131	145	99	6,284
April	454	98	1,324	33	4,156	145	99	6,309
May	454	98	1,324	33	4,156	145	99	6,309
June	454	98	1,324	33	4,156	145	99	6,309
July	454	98	1,324	33	4,156	145	99	6,309

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.'

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**3**	**9**	**0**	**2**	**0**	**0**	**6**
Connecticut	0	42	0	2	0	0	23
Maine	50	6	0	13	0	0	7
Massachusetts	0	13	0	3	0	0	16
New Hampshire	0	10	0	0	0	0	12
Rhode Island	0	133	0	9	0	0	0
Vermont	0	106	0	0	0	0	11
Middle Atlantic	**3**	**11**	**58**	**1**	**21**	**0**	**1**
New Jersey	0	47	0	2	0	0	0
New York	0	13	0	2	0	0	1
Pennsylvania	3	14	110	1	27	0	8
East North Central	**1**	**5**	**17**	**2**	**9**	**0**	**13**
Illinois	0	16	0	6	0	0	19
Indiana	1	3	0	3	14	0	17
Michigan	2	8	10	2	0	0	28
Ohio	1	13	44	2	20	0	15
Wisconsin	1	39	0	3	0	0	20
West North Central	**1**	**12**	**0**	**5**	**0**	**0**	**11**
Iowa	1	18	0	5	0	0	35
Kansas	1	5	0	18	0	0	0
Minnesota	5	52	0	6	0	0	28
Missouri	0	9	0	9	0	0	10
Nebraska	4	119	0	23	0	0	28
North Dakota	0	11	0	22	0	0	26
South Dakota	0	107	0	21	0	0	19
South Atlantic	**0**	**8**	**6**	**1**	**0**	**0**	**4**
Delaware	0	39	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	20	0	1	0	0	26
Georgia	0	96	81	3	0	0	7
Maryland	0	8	0	3	0	0	1
North Carolina	0	10	0	2	0	0	6
South Carolina	0	12	0	3	0	0	9
Virginia	3	14	0	2	0	0	11
West Virginia	1	0	0	15	0	0	14
East South Central	**0**	**12**	**0**	**1**	**0**	**0**	**4**
Alabama	0	43	0	2	0	0	5
Kentucky	0	2	0	3	0	0	10
Mississippi	0	9	0	2	0	0	0
Tennessee	0	10	0	3	0	0	5
West South Central	**0**	**8**	**1**	**1**	**4**	**0**	**4**
Arkansas	0	15	0	5	0	0	6
Louisiana	0	70	0	2	9	0	10
Oklahoma	0	1	0	2	0	0	7
Texas	0	12	33	1	3	0	12
Mountain	**1**	**5**	**0**	**1**	**9**	**0**	**6**
Arizona	0	4	0	1	0	0	5
Colorado	0	26	0	3	0	0	25
Idaho	118	0	0	9	0	0	12
Montana	11	9	0	23	0	0	11
Nevada	0	0	0	1	0	0	3
New Mexico	0	24	0	7	0	0	95
Utah	0	2	0	3	0	0	43
Wyoming	3	1	0	12	11	0	36
Pacific Contiguous	**0**	**8**	**0**	**1**	**2**	**0**	**2**
California	0	2	0	1	2	0	5
Oregon	0	0	0	2	0	0	5
Washington	0	47	0	3	0	0	1
Pacific Noncontiguous	**17**	**1**	**0**	**14**	**0**	**0**	**26**
Alaska	59	4	0	14	0	0	28
Hawaii	0	1	0	0	0	0	43
U.S. Total	**0**	**1**	**5**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, July 2018 (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**	**7**	**5**	**0**	**0**	**1**
Connecticut	0	0	0	28	9	0	0	1
Maine	0	0	0	89	7	0	0	5
Massachusetts	0	0	0	8	6	0	1	2
New Hampshire	0	0	0	0	13	0	0	1
Rhode Island	0	0	0	47	9	0	0	8
Vermont	0	0	0	24	15	0	0	9
Middle Atlantic	**0**	**0**	**0**	**6**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	13	7	0	2	1
Pennsylvania	0	0	0	27	8	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**2**	**1**
Illinois	0	0	0	22	7	0	0	1
Indiana	0	0	0	14	9	0	0	1
Michigan	0	0	0	18	8	0	4	1
Ohio	0	0	0	23	8	0	0	1
Wisconsin	0	0	0	45	9	0	45	1
West North Central	**0**	**0**	**0**	**7**	**6**	**0**	**4**	**1**
Iowa	0	0	0	76	8	0	0	2
Kansas	0	0	0	101	5	0	0	2
Minnesota	0	0	0	7	8	0	4	3
Missouri	0	0	0	25	11	0	0	1
Nebraska	0	0	0	46	12	0	0	3
North Dakota	0	0	0	0	9	0	19	2
South Dakota	0	0	0	210	23	0	0	9
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	33	23	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	3	2	0	0	1
Georgia	0	0	0	6	3	0	19	1
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	3	3	0	0	1
South Carolina	0	0	0	12	4	0	0	1
Virginia	0	0	0	9	5	0	0	1
West Virginia	0	0	0	0	20	0	0	1
East South Central	**0**	**0**	**0**	**7**	**2**	**0**	**7**	**0**
Alabama	0	0	0	12	3	0	0	1
Kentucky	0	0	0	34	10	0	0	1
Mississippi	0	0	0	4	2	0	0	2
Tennessee	0	0	0	21	7	0	88	1
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	6	3	0	0	1
Louisiana	0	0	0	200	3	0	3	1
Oklahoma	0	0	0	37	5	0	0	2
Texas	0	0	0	3	3	0	5	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	5	0	0	1
Idaho	0	23	0	10	11	0	0	7
Montana	0	0	0	51	21	0	0	7
Nevada	0	6	0	3	3	0	0	1
New Mexico	0	0	0	8	5	0	0	3
Utah	0	10	0	7	6	0	0	1
Wyoming	0	0	0	0	15	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	14	0	10	6	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**13**	**0**	**15**	**13**	**0**	**0**	**5**
Alaska	0	0	0	0	50	0	0	12
Hawaii	0	13	0	15	14	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**0**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**3**	**9**	**0**	**2**	**0**	**0**	**6**
Connecticut	0	42	0	2	0	0	23
Maine	50	6	0	13	0	0	7
Massachusetts	0	13	0	3	0	0	16
New Hampshire	0	10	0	0	0	0	12
Rhode Island	0	133	0	9	0	0	0
Vermont	0	106	0	0	0	0	11
Middle Atlantic	**3**	**11**	**58**	**1**	**21**	**0**	**1**
New Jersey	0	47	0	2	0	0	0
New York	0	13	0	2	0	0	1
Pennsylvania	3	14	110	1	27	0	8
East North Central	**1**	**5**	**17**	**2**	**9**	**0**	**13**
Illinois	0	16	0	6	0	0	19
Indiana	1	3	0	3	14	0	17
Michigan	2	8	10	2	0	0	28
Ohio	1	13	44	2	20	0	15
Wisconsin	1	39	0	3	0	0	20
West North Central	**1**	**12**	**0**	**5**	**0**	**0**	**11**
Iowa	1	18	0	5	0	0	35
Kansas	1	5	0	18	0	0	0
Minnesota	5	52	0	6	0	0	28
Missouri	0	9	0	9	0	0	10
Nebraska	4	119	0	23	0	0	28
North Dakota	0	11	0	22	0	0	26
South Dakota	0	107	0	21	0	0	19
South Atlantic	**0**	**8**	**6**	**1**	**0**	**0**	**4**
Delaware	0	39	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	20	0	1	0	0	26
Georgia	0	96	81	3	0	0	7
Maryland	0	8	0	3	0	0	1
North Carolina	0	10	0	2	0	0	6
South Carolina	0	12	0	3	0	0	9
Virginia	3	14	0	2	0	0	11
West Virginia	1	0	0	15	0	0	14
East South Central	**0**	**12**	**0**	**1**	**0**	**0**	**4**
Alabama	0	43	0	2	0	0	5
Kentucky	0	2	0	3	0	0	10
Mississippi	0	9	0	2	0	0	0
Tennessee	0	10	0	3	0	0	5
West South Central	**0**	**8**	**1**	**1**	**4**	**0**	**4**
Arkansas	0	15	0	5	0	0	6
Louisiana	0	70	0	2	9	0	10
Oklahoma	0	1	0	2	0	0	7
Texas	0	12	33	1	3	0	12
Mountain	**1**	**5**	**0**	**1**	**9**	**0**	**6**
Arizona	0	4	0	1	0	0	5
Colorado	0	26	0	3	0	0	25
Idaho	118	0	0	9	0	0	12
Montana	11	9	0	23	0	0	11
Nevada	0	0	0	1	0	0	3
New Mexico	0	24	0	7	0	0	95
Utah	0	2	0	3	0	0	43
Wyoming	3	1	0	12	11	0	36
Pacific Contiguous	**0**	**8**	**0**	**1**	**2**	**0**	**2**
California	0	2	0	1	2	0	5
Oregon	0	0	0	2	0	0	5
Washington	0	47	0	3	0	0	1
Pacific Noncontiguous	**17**	**1**	**0**	**14**	**0**	**0**	**26**
Alaska	59	4	0	14	0	0	28
Hawaii	0	1	0	0	0	0	43
U.S. Total	**0**	**1**	**5**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through July 2018 (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**	**7**	**5**	**0**	**0**	**1**
Connecticut	0	0	0	28	9	0	0	1
Maine	0	0	0	89	7	0	0	5
Massachusetts	0	0	0	8	6	0	1	2
New Hampshire	0	0	0	0	13	0	0	1
Rhode Island	0	0	0	47	9	0	0	8
Vermont	0	0	0	24	15	0	0	9
Middle Atlantic	**0**	**0**	**0**	**6**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	13	7	0	2	1
Pennsylvania	0	0	0	27	8	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**2**	**1**
Illinois	0	0	0	22	7	0	0	1
Indiana	0	0	0	14	9	0	0	1
Michigan	0	0	0	18	8	0	4	1
Ohio	0	0	0	23	8	0	0	1
Wisconsin	0	0	0	45	9	0	45	1
West North Central	**0**	**0**	**0**	**7**	**6**	**0**	**4**	**1**
Iowa	0	0	0	76	8	0	0	2
Kansas	0	0	0	101	5	0	0	2
Minnesota	0	0	0	7	8	0	4	3
Missouri	0	0	0	25	11	0	0	1
Nebraska	0	0	0	46	12	0	0	3
North Dakota	0	0	0	0	9	0	19	2
South Dakota	0	0	0	210	23	0	0	9
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	33	23	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	3	2	0	0	1
Georgia	0	0	0	6	3	0	19	1
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	3	3	0	0	1
South Carolina	0	0	0	12	4	0	0	1
Virginia	0	0	0	9	5	0	0	1
West Virginia	0	0	0	0	20	0	0	1
East South Central	**0**	**0**	**0**	**7**	**2**	**0**	**7**	**0**
Alabama	0	0	0	12	3	0	0	1
Kentucky	0	0	0	34	10	0	0	1
Mississippi	0	0	0	4	2	0	0	2
Tennessee	0	0	0	21	7	0	88	1
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	6	3	0	0	1
Louisiana	0	0	0	200	3	0	3	1
Oklahoma	0	0	0	37	5	0	0	2
Texas	0	0	0	3	3	0	5	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	5	0	0	1
Idaho	0	23	0	10	11	0	0	7
Montana	0	0	0	51	21	0	0	7
Nevada	0	6	0	3	3	0	0	1
New Mexico	0	0	0	8	5	0	0	3
Utah	0	10	0	7	6	0	0	1
Wyoming	0	0	0	0	15	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	14	0	10	6	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**13**	**0**	**15**	**13**	**0**	**0**	**5**
Alaska	0	0	0	0	50	0	0	12
Hawaii	0	13	0	15	14	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**0**

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

Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	1	0	.	1
Massachusetts	0	0	2	.	0
New Hampshire	1	0	0	.	0
Rhode Island	1	0	0	.	0
Vermont	2	2	87	.	2
Middle Atlantic	**0**	**1**	**3**	**.**	**0**
New Jersey	0	1	4	.	1
New York	0	0	2	.	0
Pennsylvania	2	4	0	.	2
East North Central	**3**	**5**	**28**	**.**	**3**
Illinois	7	17	0	.	10
Indiana	8	5	0	.	4
Michigan	4	35	289	.	15
Ohio	6	6	66	.	5
Wisconsin	10	20	10	.	9
West North Central	**3**	**2**	**6**	**.**	**2**
Iowa	8	4	35	.	4
Kansas	14	10	0	.	9
Minnesota	8	9	6	.	5
Missouri	3	2	0	.	2
Nebraska	25	65	51	.	24
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**3**	**.**	**1**
Delaware	5	5	22	.	4
District of Columbia	0	0	0	.	0
Florida	5	11	4	.	5
Georgia	119	202	0	.	104
Maryland	1	3	4	.	1
North Carolina	11	2	0	.	7
South Carolina	3	7	0	.	3
Virginia	13	12	14	.	9
West Virginia	0	0	0	.	0
East South Central	**7**	**34**	**0**	**.**	**14**
Alabama	0	0	0	.	0
Kentucky	8	40	0	.	15
Mississippi	10	82	0	.	40
Tennessee	0	0	0	.	0
West South Central	**5**	**8**	**0**	**.**	**4**
Arkansas	24	10	0	.	15
Louisiana	4	7	0	.	4
Oklahoma	24	4	0	.	15
Texas	9	10	0	.	7
Mountain	**1**	**6**	**6**	**.**	**2**
Arizona	1	6	18	.	2
Colorado	3	19	24	.	7
Idaho	3	49	0	.	8
Montana	15	118	0	.	35
Nevada	1	0	0	.	0
New Mexico	5	36	0	.	14
Utah	2	32	0	.	7
Wyoming	38	365	0	.	98
Pacific Contiguous	**0**	**1**	**0**	**.**	**0**
California	0	1	0	.	0
Oregon	2	5	9	.	2
Washington	3	18	71	.	3
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	3	5	0	.	3
Hawaii	0	0	0	.	0
U.S. Total	**0**	**1**	**1**	**.**	**0**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**40**	**0**	**0**	**13**
Connecticut	0	50	0	0	0	0	31
Maine	0	0	0	0	0	0	0
Massachusetts	0	34	0	57	0	0	38
New Hampshire	0	7	0	0	0	0	21
Rhode Island	0	0	0	0	0	0	0
Vermont	0	109	0	0	0	0	18
Middle Atlantic	**0**	**37**	**0**	**5**	**0**	**0**	**0**
New Jersey	0	201	0	66	0	0	0
New York	0	37	0	4	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**3**	**15**	**0**	**15**
Illinois	0	48	0	18	0	0	22
Indiana	1	4	0	6	167	0	17
Michigan	2	8	0	4	0	0	29
Ohio	9	59	0	6	0	0	19
Wisconsin	1	35	0	4	0	0	22
West North Central	**1**	**12**	**0**	**5**	**0**	**0**	**11**
Iowa	1	18	0	5	0	0	35
Kansas	1	5	0	18	0	0	0
Minnesota	5	66	0	7	0	0	36
Missouri	0	9	0	14	0	0	10
Nebraska	4	119	0	23	0	0	28
North Dakota	0	11	0	22	0	0	26
South Dakota	0	107	0	21	0	0	19
South Atlantic	**0**	**5**	**0**	**1**	**0**	**0**	**5**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	26
Georgia	0	15	0	3	0	0	7
Maryland	0	21	0	0	0	0	0
North Carolina	0	3	0	2	0	0	6
South Carolina	0	14	0	4	0	0	9
Virginia	4	35	0	3	0	0	11
West Virginia	0	0	0	0	0	0	26
East South Central	**0**	**5**	**0**	**2**	**0**	**0**	**4**
Alabama	0	2	0	4	0	0	5
Kentucky	0	2	0	3	0	0	10
Mississippi	0	10	0	2	0	0	0
Tennessee	0	11	0	3	0	0	5
West South Central	**0**	**16**	**0**	**2**	**0**	**0**	**5**
Arkansas	0	17	0	5	0	0	6
Louisiana	0	70	0	3	0	0	0
Oklahoma	0	1	0	3	0	0	7
Texas	0	50	0	3	0	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	4	0	2	0	0	5
Colorado	0	26	0	3	0	0	27
Idaho	0	0	0	9	0	0	13
Montana	0	514	0	31	0	0	11
Nevada	0	0	0	1	0	0	0
New Mexico	0	24	0	9	0	0	95
Utah	0	2	0	3	0	0	43
Wyoming	3	1	0	24	0	0	37
Pacific Contiguous	**0**	**10**	**0**	**2**	**0**	**0**	**2**
California	0	15	0	2	0	0	4
Oregon	0	0	0	4	0	0	5
Washington	0	65	0	4	0	0	1
Pacific Noncontiguous	**129**	**1**	**0**	**14**	**0**	**0**	**29**
Alaska	129	4	0	14	0	0	29
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**15**	**0**	**2**

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

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

Electric Utilities by Census Division and State, July 2018 (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**	**32**	**11**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	9
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	51	70	0	0	40
New Hampshire	0	0	0	0	0	0	0	5
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	42	19	0	0	13
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	19
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**	**15**	**12**	**0**	**2**	**1**
Illinois	0	0	0	0	66	0	0	7
Indiana	0	0	0	24	14	0	0	1
Michigan	0	0	0	19	19	0	0	1
Ohio	0	0	0	77	102	0	0	5
Wisconsin	0	0	0	0	18	0	16	2
West North Central	**0**	**0**	**0**	**54**	**7**	**0**	**3**	**1**
Iowa	0	0	0	83	8	0	0	2
Kansas	0	0	0	210	15	0	0	2
Minnesota	0	0	0	138	14	0	0	3
Missouri	0	0	0	0	45	0	0	1
Nebraska	0	0	0	0	39	0	0	3
North Dakota	0	0	0	0	17	0	19	2
South Dakota	0	0	0	0	38	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**4**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	12
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	13	13	0	0	1
Maryland	0	0	0	82	82	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	21	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**29**	**21**	**0**	**0**	**1**
Alabama	0	0	0	49	49	0	0	1
Kentucky	0	0	0	34	22	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**34**	**19**	**0**	**0**	**1**
Arkansas	0	0	0	210	210	0	0	2
Louisiana	0	0	0	200	200	0	0	1
Oklahoma	0	0	0	37	20	0	0	2
Texas	0	0	0	121	57	0	0	2
Mountain	**0**	**13**	**0**	**8**	**10**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	125	51	0	0	1
Idaho	0	0	0	0	65	0	0	9
Montana	0	0	0	0	64	0	0	11
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	17	17	0	0	3
Utah	0	13	0	0	13	0	0	1
Wyoming	0	0	0	0	22	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**5**	**0**	**0**	**1**
California	0	0	0	12	5	0	0	2
Oregon	0	0	0	100	6	0	0	4
Washington	0	0	0	0	10	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**34**	**0**	**0**	**7**
Alaska	0	0	0	0	83	0	0	12
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**3**	**4**	**0**	**1**	**0**

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

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

Electric Utilities by Census Division and State, Year-to-Date through July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**40**	**0**	**0**	**13**
Connecticut	0	50	0	0	0	0	31
Maine	0	0	0	0	0	0	0
Massachusetts	0	34	0	57	0	0	38
New Hampshire	0	7	0	0	0	0	21
Rhode Island	0	0	0	0	0	0	0
Vermont	0	109	0	0	0	0	18
Middle Atlantic	**0**	**37**	**0**	**5**	**0**	**0**	**0**
New Jersey	0	201	0	66	0	0	0
New York	0	37	0	4	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**3**	**15**	**0**	**15**
Illinois	0	48	0	18	0	0	22
Indiana	1	4	0	6	167	0	17
Michigan	2	8	0	4	0	0	29
Ohio	9	59	0	6	0	0	19
Wisconsin	1	35	0	4	0	0	22
West North Central	**1**	**12**	**0**	**5**	**0**	**0**	**11**
Iowa	1	18	0	5	0	0	35
Kansas	1	5	0	18	0	0	0
Minnesota	5	66	0	7	0	0	36
Missouri	0	9	0	14	0	0	10
Nebraska	4	119	0	23	0	0	28
North Dakota	0	11	0	22	0	0	26
South Dakota	0	107	0	21	0	0	19
South Atlantic	**0**	**5**	**0**	**1**	**0**	**0**	**5**
Delaware	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	26
Georgia	0	15	0	3	0	0	7
Maryland	0	21	0	0	0	0	0
North Carolina	0	3	0	2	0	0	6
South Carolina	0	14	0	4	0	0	9
Virginia	4	35	0	3	0	0	11
West Virginia	0	0	0	0	0	0	26
East South Central	**0**	**5**	**0**	**2**	**0**	**0**	**4**
Alabama	0	2	0	4	0	0	5
Kentucky	0	2	0	3	0	0	10
Mississippi	0	10	0	2	0	0	0
Tennessee	0	11	0	3	0	0	5
West South Central	**0**	**16**	**0**	**2**	**0**	**0**	**5**
Arkansas	0	17	0	5	0	0	6
Louisiana	0	70	0	3	0	0	0
Oklahoma	0	1	0	3	0	0	7
Texas	0	50	0	3	0	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	4	0	2	0	0	5
Colorado	0	26	0	3	0	0	27
Idaho	0	0	0	9	0	0	13
Montana	0	514	0	31	0	0	11
Nevada	0	0	0	1	0	0	0
New Mexico	0	24	0	9	0	0	95
Utah	0	2	0	3	0	0	43
Wyoming	3	1	0	24	0	0	37
Pacific Contiguous	**0**	**10**	**0**	**2**	**0**	**0**	**2**
California	0	15	0	2	0	0	4
Oregon	0	0	0	4	0	0	5
Washington	0	65	0	4	0	0	1
Pacific Noncontiguous	**129**	**1**	**0**	**14**	**0**	**0**	**29**
Alaska	129	4	0	14	0	0	29
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**15**	**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 July 2018 (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**	**32**	**11**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	9
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	51	70	0	0	40
New Hampshire	0	0	0	0	0	0	0	5
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	42	19	0	0	13
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	19
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**	**15**	**12**	**0**	**2**	**1**
Illinois	0	0	0	0	66	0	0	7
Indiana	0	0	0	24	14	0	0	1
Michigan	0	0	0	19	19	0	0	1
Ohio	0	0	0	77	102	0	0	5
Wisconsin	0	0	0	0	18	0	16	2
West North Central	**0**	**0**	**0**	**54**	**7**	**0**	**3**	**1**
Iowa	0	0	0	83	8	0	0	2
Kansas	0	0	0	210	15	0	0	2
Minnesota	0	0	0	138	14	0	0	3
Missouri	0	0	0	0	45	0	0	1
Nebraska	0	0	0	0	39	0	0	3
North Dakota	0	0	0	0	17	0	19	2
South Dakota	0	0	0	0	38	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**4**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	12
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	13	13	0	0	1
Maryland	0	0	0	82	82	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	21	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**29**	**21**	**0**	**0**	**1**
Alabama	0	0	0	49	49	0	0	1
Kentucky	0	0	0	34	22	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**34**	**19**	**0**	**0**	**1**
Arkansas	0	0	0	210	210	0	0	2
Louisiana	0	0	0	200	200	0	0	1
Oklahoma	0	0	0	37	20	0	0	2
Texas	0	0	0	121	57	0	0	2
Mountain	**0**	**13**	**0**	**8**	**10**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	125	51	0	0	1
Idaho	0	0	0	0	65	0	0	9
Montana	0	0	0	0	64	0	0	11
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	17	17	0	0	3
Utah	0	13	0	0	13	0	0	1
Wyoming	0	0	0	0	22	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**5**	**0**	**0**	**1**
California	0	0	0	12	5	0	0	2
Oregon	0	0	0	100	6	0	0	4
Washington	0	0	0	0	10	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**34**	**0**	**0**	**7**
Alaska	0	0	0	0	83	0	0	12
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**3**	**4**	**0**	**1**	**0**

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

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

Independent Power Producers by Census Division and State, July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**2**	**0**	**0**	**6**
Connecticut	0	46	0	2	0	0	25
Maine	0	3	0	14	0	0	7
Massachusetts	0	12	0	3	0	0	18
New Hampshire	0	803	0	0	0	0	14
Rhode Island	0	133	0	9	0	0	0
Vermont	0	0	0	0	0	0	14
Middle Atlantic	**3**	**8**	**0**	**1**	**0**	**0**	**6**
New Jersey	0	51	0	2	0	0	0
New York	0	9	0	2	0	0	6
Pennsylvania	3	14	0	1	0	0	8
East North Central	**0**	**10**	**45**	**2**	**10**	**0**	**33**
Illinois	0	14	0	7	0	0	29
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	107
Ohio	0	13	45	2	25	0	26
Wisconsin	0	0	0	0	0	0	95
West North Central	**0**	**58**	**0**	**6**	**0**	**0**	**61**
Iowa	0	60	0	1,169	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	66	0	15	0	0	72
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**9**	**0**	**2**	**0**	**0**	**3**
Delaware	0	39	0	11	0	0	0
Florida	0	53	0	7	0	0	0
Georgia	0	242	0	8	0	0	32
Maryland	0	8	0	5	0	0	1
North Carolina	0	85	0	8	0	0	41
South Carolina	0	0	0	2	0	0	41
Virginia	0	14	0	2	0	0	30
West Virginia	6	0	0	22	0	0	19
East South Central	**0**	**61**	**0**	**0**	**0**	**0**	**109**
Alabama	0	83	0	0	0	0	0
Kentucky	0	0	0	0	0	0	109
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**10**
Arkansas	0	0	0	0	0	0	50
Louisiana	0	0	0	9	0	0	10
Oklahoma	0	0	0	0	0	0	0
Texas	0	3	0	1	0	0	0
Mountain	**9**	**7**	**0**	**2**	**0**	**0**	**31**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	12	0	0	76
Idaho	0	0	0	20	0	0	40
Montana	11	8	0	7	0	0	93
Nevada	0	0	0	0	0	0	88
New Mexico	0	0	0	6	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**2**	**0**	**1**	**0**	**0**	**22**
California	0	0	0	1	0	0	26
Oregon	0	0	0	1	0	0	67
Washington	0	3	0	5	0	0	50
Pacific Noncontiguous	**6**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	41	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**25**	**1**	**5**	**0**	**5**

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

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

Independent Power Producers by Census Division and State, July 2018 (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**	**7**	**6**	**0**	**0**	**1**
Connecticut	0	0	0	29	9	0	0	1
Maine	0	0	0	89	10	0	0	6
Massachusetts	0	0	0	8	6	0	1	2
New Hampshire	0	0	0	0	15	0	0	1
Rhode Island	0	0	0	47	9	0	0	8
Vermont	0	0	0	28	23	0	0	12
Middle Atlantic	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	9	6	0	0	1
New York	0	0	0	13	7	0	0	1
Pennsylvania	0	0	0	30	9	0	0	1
East North Central	**0**	**0**	**0**	**12**	**5**	**0**	**8**	**1**
Illinois	0	0	0	22	7	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	35	9	0	11	1
Ohio	0	0	0	25	8	0	0	1
Wisconsin	0	0	0	46	13	0	0	1
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**4**
Iowa	0	0	0	184	12	0	0	6
Kansas	0	0	0	114	6	0	0	6
Minnesota	0	0	0	7	8	0	0	7
Missouri	0	0	0	27	12	0	0	4
Nebraska	0	0	0	46	12	0	0	12
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	210	25	0	0	25
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**0**	**2**
Delaware	0	0	0	36	27	0	0	9
Florida	0	0	0	11	4	0	1	5
Georgia	0	0	0	6	5	0	0	7
Maryland	0	0	0	10	11	0	0	1
North Carolina	0	0	0	3	3	0	0	4
South Carolina	0	0	0	12	11	0	0	3
Virginia	0	0	0	10	6	0	0	2
West Virginia	0	0	0	0	20	0	0	5
East South Central	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Alabama	0	0	0	12	9	0	0	0
Kentucky	0	0	0	200	65	0	0	1
Mississippi	0	0	0	4	4	0	0	0
Tennessee	0	0	0	22	22	0	0	21
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**0**	**1**
Arkansas	0	0	0	6	8	0	0	1
Louisiana	0	0	0	0	30	0	0	4
Oklahoma	0	0	0	0	5	0	0	2
Texas	0	0	0	3	3	0	0	1
Mountain	**0**	**6**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	5	0	0	5
Idaho	0	23	0	10	12	0	0	11
Montana	0	0	0	51	22	0	0	9
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	6	0	0	4
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	19	0	0	13
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	14	0	10	8	0	0	3
Washington	0	0	0	0	15	0	0	3
Pacific Noncontiguous	**0**	**13**	**0**	**19**	**19**	**0**	**0**	**5**
Alaska	0	0	0	0	120	0	0	39
Hawaii	0	13	0	19	19	0	0	4
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**0**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**2**	**0**	**0**	**6**
Connecticut	0	46	0	2	0	0	25
Maine	0	3	0	14	0	0	7
Massachusetts	0	12	0	3	0	0	18
New Hampshire	0	803	0	0	0	0	14
Rhode Island	0	133	0	9	0	0	0
Vermont	0	0	0	0	0	0	14
Middle Atlantic	**3**	**8**	**0**	**1**	**0**	**0**	**6**
New Jersey	0	51	0	2	0	0	0
New York	0	9	0	2	0	0	6
Pennsylvania	3	14	0	1	0	0	8
East North Central	**0**	**10**	**45**	**2**	**10**	**0**	**33**
Illinois	0	14	0	7	0	0	29
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	107
Ohio	0	13	45	2	25	0	26
Wisconsin	0	0	0	0	0	0	95
West North Central	**0**	**58**	**0**	**6**	**0**	**0**	**61**
Iowa	0	60	0	1,169	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	66	0	15	0	0	72
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**9**	**0**	**2**	**0**	**0**	**3**
Delaware	0	39	0	11	0	0	0
Florida	0	53	0	7	0	0	0
Georgia	0	242	0	8	0	0	32
Maryland	0	8	0	5	0	0	1
North Carolina	0	85	0	8	0	0	41
South Carolina	0	0	0	2	0	0	41
Virginia	0	14	0	2	0	0	30
West Virginia	6	0	0	22	0	0	19
East South Central	**0**	**61**	**0**	**0**	**0**	**0**	**109**
Alabama	0	83	0	0	0	0	0
Kentucky	0	0	0	0	0	0	109
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**10**
Arkansas	0	0	0	0	0	0	50
Louisiana	0	0	0	9	0	0	10
Oklahoma	0	0	0	0	0	0	0
Texas	0	3	0	1	0	0	0
Mountain	**9**	**7**	**0**	**2**	**0**	**0**	**31**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	12	0	0	76
Idaho	0	0	0	20	0	0	40
Montana	11	8	0	7	0	0	93
Nevada	0	0	0	0	0	0	88
New Mexico	0	0	0	6	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**2**	**0**	**1**	**0**	**0**	**22**
California	0	0	0	1	0	0	26
Oregon	0	0	0	1	0	0	67
Washington	0	3	0	5	0	0	50
Pacific Noncontiguous	**6**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	41	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**25**	**1**	**5**	**0**	**5**

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

Independent Power Producers by Census Division and State, Year-to-Date through July 2018 (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**	**7**	**6**	**0**	**0**	**1**
Connecticut	0	0	0	29	9	0	0	1
Maine	0	0	0	89	10	0	0	6
Massachusetts	0	0	0	8	6	0	1	2
New Hampshire	0	0	0	0	15	0	0	1
Rhode Island	0	0	0	47	9	0	0	8
Vermont	0	0	0	28	23	0	0	12
Middle Atlantic	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	9	6	0	0	1
New York	0	0	0	13	7	0	0	1
Pennsylvania	0	0	0	30	9	0	0	1
East North Central	**0**	**0**	**0**	**12**	**5**	**0**	**8**	**1**
Illinois	0	0	0	22	7	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	35	9	0	11	1
Ohio	0	0	0	25	8	0	0	1
Wisconsin	0	0	0	46	13	0	0	1
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**4**
Iowa	0	0	0	184	12	0	0	6
Kansas	0	0	0	114	6	0	0	6
Minnesota	0	0	0	7	8	0	0	7
Missouri	0	0	0	27	12	0	0	4
Nebraska	0	0	0	46	12	0	0	12
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	210	25	0	0	25
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**0**	**2**
Delaware	0	0	0	36	27	0	0	9
Florida	0	0	0	11	4	0	1	5
Georgia	0	0	0	6	5	0	0	7
Maryland	0	0	0	10	11	0	0	1
North Carolina	0	0	0	3	3	0	0	4
South Carolina	0	0	0	12	11	0	0	3
Virginia	0	0	0	10	6	0	0	2
West Virginia	0	0	0	0	20	0	0	5
East South Central	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Alabama	0	0	0	12	9	0	0	0
Kentucky	0	0	0	200	65	0	0	1
Mississippi	0	0	0	4	4	0	0	0
Tennessee	0	0	0	22	22	0	0	21
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**0**	**1**
Arkansas	0	0	0	6	8	0	0	1
Louisiana	0	0	0	0	30	0	0	4
Oklahoma	0	0	0	0	5	0	0	2
Texas	0	0	0	3	3	0	0	1
Mountain	**0**	**6**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	5	0	0	5
Idaho	0	23	0	10	12	0	0	11
Montana	0	0	0	51	22	0	0	9
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	6	0	0	4
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	19	0	0	13
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	14	0	10	8	0	0	3
Washington	0	0	0	0	15	0	0	3
Pacific Noncontiguous	**0**	**13**	**0**	**19**	**19**	**0**	**0**	**5**
Alaska	0	0	0	0	120	0	0	39
Hawaii	0	13	0	19	19	0	0	4
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**36**	**0**	**15**	**0**	**0**	**0**
Connecticut	0	6,229	0	22	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	61	0	24	0	0	0
New Hampshire	0	3	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**	**73**	**0**	**14**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	128	0	19	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**29**	**40**	**0**	**7**	**0**	**0**	**0**
Illinois	93	201	0	21	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	10	0	0	0
West North Central	**0**	**28**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	30	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	1,031	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	16	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	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**	**27**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	27	0	0	0
West South Central	**0**	**19**	**0**	**20**	**0**	**0**	**529**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	19	0	24	0	0	529
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	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	34	0	0	0
Utah	0	0	0	18	0	0	0
Pacific Contiguous	**0**	**22**	**0**	**2**	**0**	**0**	**386**
California	0	38	0	2	0	0	386
Oregon	0	0	0	31	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**49**	**8**	**0**	**0**	**0**	**0**	**83**
Alaska	49	102	0	0	0	0	83
Hawaii	0	0	0	0	0	0	0
U.S. Total	**21**	**10**	**0**	**4**	**0**	**0**	**65**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, July 2018 (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**	**66**	**7**	**0**	**0**	**12**
Connecticut	0	0	0	234	234	0	0	22
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	61	20	0	0	21
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**	**19**	**6**	**0**	**5**	**7**
New Jersey	0	0	0	19	11	0	0	8
New York	0	0	0	98	6	0	9	12
Pennsylvania	0	0	0	81	11	0	0	5
East North Central	**0**	**0**	**0**	**92**	**7**	**0**	**0**	**5**
Illinois	0	0	0	148	176	0	0	20
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	145	50	0	0	2
Wisconsin	0	0	0	191	34	0	0	10
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**53**	**6**
Iowa	0	0	0	0	25	0	0	5
Kansas	0	0	0	0	252	0	0	252
Minnesota	0	0	0	0	57	0	53	17
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,031
South Atlantic	**0**	**0**	**0**	**21**	**8**	**0**	**0**	**2**
Delaware	0	0	0	183	82	0	0	82
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	104	26	0	0	18
Georgia	0	0	0	134	134	0	0	99
Maryland	0	0	0	85	33	0	0	1
North Carolina	0	0	0	23	22	0	0	16
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**113**	**113**	**0**	**0**	**26**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	26
West South Central	**0**	**0**	**0**	**0**	**28**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	29
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	31	0	0	22
Mountain	**0**	**0**	**0**	**25**	**24**	**0**	**0**	**9**
Arizona	0	0	0	56	56	0	0	8
Colorado	0	0	0	60	79	0	0	39
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	18
New Mexico	0	0	0	0	512	0	0	35
Utah	0	0	0	0	0	0	0	13
Pacific Contiguous	**0**	**0**	**0**	**21**	**6**	**0**	**0**	**3**
California	0	0	0	21	6	0	0	3
Oregon	0	0	0	0	33	0	0	23
Washington	0	0	0	0	56	0	0	27
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Alaska	0	0	0	0	0	0	0	46
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**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 July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**36**	**0**	**15**	**0**	**0**	**0**
Connecticut	0	6,229	0	22	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	61	0	24	0	0	0
New Hampshire	0	3	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**	**73**	**0**	**14**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	128	0	19	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**29**	**40**	**0**	**7**	**0**	**0**	**0**
Illinois	93	201	0	21	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	10	0	0	0
West North Central	**0**	**28**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	30	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	1,031	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	16	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	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**	**27**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	27	0	0	0
West South Central	**0**	**19**	**0**	**20**	**0**	**0**	**529**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	19	0	24	0	0	529
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	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	34	0	0	0
Utah	0	0	0	18	0	0	0
Pacific Contiguous	**0**	**22**	**0**	**2**	**0**	**0**	**386**
California	0	38	0	2	0	0	386
Oregon	0	0	0	31	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**49**	**8**	**0**	**0**	**0**	**0**	**83**
Alaska	49	102	0	0	0	0	83
Hawaii	0	0	0	0	0	0	0
U.S. Total	**21**	**10**	**0**	**4**	**0**	**0**	**65**

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

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

Commercial Sector by Census Division and State, Year-to-Date through July 2018 (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**	**66**	**7**	**0**	**0**	**12**
Connecticut	0	0	0	234	234	0	0	22
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	61	20	0	0	21
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**	**19**	**6**	**0**	**5**	**7**
New Jersey	0	0	0	19	11	0	0	8
New York	0	0	0	98	6	0	9	12
Pennsylvania	0	0	0	81	11	0	0	5
East North Central	**0**	**0**	**0**	**92**	**7**	**0**	**0**	**5**
Illinois	0	0	0	148	176	0	0	20
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	145	50	0	0	2
Wisconsin	0	0	0	191	34	0	0	10
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**53**	**6**
Iowa	0	0	0	0	25	0	0	5
Kansas	0	0	0	0	252	0	0	252
Minnesota	0	0	0	0	57	0	53	17
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,031
South Atlantic	**0**	**0**	**0**	**21**	**8**	**0**	**0**	**2**
Delaware	0	0	0	183	82	0	0	82
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	104	26	0	0	18
Georgia	0	0	0	134	134	0	0	99
Maryland	0	0	0	85	33	0	0	1
North Carolina	0	0	0	23	22	0	0	16
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**113**	**113**	**0**	**0**	**26**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	26
West South Central	**0**	**0**	**0**	**0**	**28**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	29
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	31	0	0	22
Mountain	**0**	**0**	**0**	**25**	**24**	**0**	**0**	**9**
Arizona	0	0	0	56	56	0	0	8
Colorado	0	0	0	60	79	0	0	39
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	18
New Mexico	0	0	0	0	512	0	0	35
Utah	0	0	0	0	0	0	0	13
Pacific Contiguous	**0**	**0**	**0**	**21**	**6**	**0**	**0**	**3**
California	0	0	0	21	6	0	0	3
Oregon	0	0	0	0	33	0	0	23
Washington	0	0	0	0	56	0	0	27
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Alaska	0	0	0	0	0	0	0	46
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**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, July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**310**	**54**	**0**	**13**	**0**	**0**	**18**
Connecticut	0	0	0	13	0	0	0
Maine	310	54	0	31	0	0	18
Massachusetts	0	0	0	10	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**33**	**19**	**58**	**9**	**21**	**0**	**34**
New Jersey	0	0	0	10	0	0	0
New York	0	0	0	8	0	0	34
Pennsylvania	33	127	110	14	27	0	0
East North Central	**7**	**50**	**80**	**7**	**12**	**0**	**50**
Illinois	7	0	0	20	0	0	0
Indiana	0	1	0	9	13	0	0
Michigan	77	1,283	92	16	0	0	113
Ohio	200	0	0	20	0	0	0
Wisconsin	26	457	0	18	0	0	55
West North Central	**4**	**0**	**0**	**4**	**0**	**0**	**36**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	145	0	0	0
Minnesota	14	0	0	0	0	0	36
Missouri	0	0	0	0	0	0	0
Nebraska	9	0	0	0	0	0	0
North Dakota	57	0	0	0	0	0	0
South Atlantic	**25**	**128**	**81**	**6**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	61	168	0	13	0	0	0
Georgia	88	358	81	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	17	193	0	46	0	0	477
South Carolina	0	0	0	0	0	0	0
Virginia	31	2,327	0	8	0	0	0
West Virginia	0	0	0	0	0	0	15
East South Central	**5**	**246**	**0**	**9**	**0**	**0**	**0**
Alabama	58	367	0	17	0	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	**0**	**0**	**19**	**2**	**6**	**0**	**0**
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	33	2	7	0	0
Mountain	**22**	**0**	**0**	**4**	**10**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	118	0	0	46	0	0	0
Montana	0	0	0	0	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	22	0	0	8	11	0	0
Pacific Contiguous	**0**	**12**	**0**	**1**	**2**	**0**	**0**
California	0	1	0	1	2	0	0
Oregon	0	0	0	52	0	0	0
Washington	0	272	0	73	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**125**
Alaska	0	17	0	0	0	0	0
Hawaii	0	0	0	0	0	0	125
U.S. Total	**4**	**15**	**33**	**1**	**6**	**0**	**12**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, July 2018 (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**	**44**	**5**	**0**	**0**	**6**
Connecticut	0	0	0	663	663	0	0	13
Maine	0	0	0	0	5	0	0	8
Massachusetts	0	0	0	0	0	0	0	10
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**57**	**6**	**0**	**0**	**7**
New Jersey	0	0	0	80	80	0	0	6
New York	0	0	0	0	11	0	0	6
Pennsylvania	0	0	0	81	6	0	0	10
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**5**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	26	0	0	9
Michigan	0	0	0	0	6	0	0	12
Ohio	0	0	0	0	18	0	0	9
Wisconsin	0	0	0	0	6	0	72	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	114
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	9
North Dakota	0	0	0	0	0	0	0	37
South Atlantic	**0**	**0**	**0**	**152**	**2**	**0**	**2**	**2**
Delaware	0	0	0	0	58	0	0	1
Florida	0	0	0	152	4	0	0	5
Georgia	0	0	0	0	3	0	19	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	6
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	7
East South Central	**0**	**0**	**0**	**121**	**2**	**0**	**88**	**3**
Alabama	0	0	0	0	3	0	0	5
Kentucky	0	0	0	0	12	0	0	9
Mississippi	0	0	0	0	3	0	0	6
Tennessee	0	0	0	121	4	0	88	2
West South Central	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	0	4	0	0	4
Louisiana	0	0	0	0	3	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	8	0	6	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	10
Montana	0	0	0	0	0	0	0	0
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	9
Pacific Contiguous	**0**	**0**	**0**	**42**	**4**	**0**	**3**	**1**
California	0	0	0	42	8	0	3	1
Oregon	0	0	0	0	9	0	0	10
Washington	0	0	0	0	6	0	0	6
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**334**	**0**	**0**	**13**
Alaska	0	0	0	0	334	0	0	6
Hawaii	0	0	0	0	0	0	0	17
U.S. Total	**0**	**0**	**0**	**29**	**1**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through July 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**310**	**54**	**0**	**13**	**0**	**0**	**18**
Connecticut	0	0	0	13	0	0	0
Maine	310	54	0	31	0	0	18
Massachusetts	0	0	0	10	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**33**	**19**	**58**	**9**	**21**	**0**	**34**
New Jersey	0	0	0	10	0	0	0
New York	0	0	0	8	0	0	34
Pennsylvania	33	127	110	14	27	0	0
East North Central	**7**	**50**	**80**	**7**	**12**	**0**	**50**
Illinois	7	0	0	20	0	0	0
Indiana	0	1	0	9	13	0	0
Michigan	77	1,283	92	16	0	0	113
Ohio	200	0	0	20	0	0	0
Wisconsin	26	457	0	18	0	0	55
West North Central	**4**	**0**	**0**	**4**	**0**	**0**	**36**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	145	0	0	0
Minnesota	14	0	0	0	0	0	36
Missouri	0	0	0	0	0	0	0
Nebraska	9	0	0	0	0	0	0
North Dakota	57	0	0	0	0	0	0
South Atlantic	**25**	**128**	**81**	**6**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	61	168	0	13	0	0	0
Georgia	88	358	81	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	17	193	0	46	0	0	477
South Carolina	0	0	0	0	0	0	0
Virginia	31	2,327	0	8	0	0	0
West Virginia	0	0	0	0	0	0	15
East South Central	**5**	**246**	**0**	**9**	**0**	**0**	**0**
Alabama	58	367	0	17	0	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	6	0	0	0
West South Central	**0**	**0**	**19**	**2**	**6**	**0**	**0**
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	33	2	7	0	0
Mountain	**22**	**0**	**0**	**4**	**10**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	118	0	0	46	0	0	0
Montana	0	0	0	0	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	22	0	0	8	11	0	0
Pacific Contiguous	**0**	**12**	**0**	**1**	**2**	**0**	**0**
California	0	1	0	1	2	0	0
Oregon	0	0	0	52	0	0	0
Washington	0	272	0	73	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**125**
Alaska	0	17	0	0	0	0	0
Hawaii	0	0	0	0	0	0	125
U.S. Total	**4**	**15**	**33**	**1**	**6**	**0**	**12**

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

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

Industrial Sector by Census Division and State, Year-to-Date through July 2018 (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**	**44**	**5**	**0**	**0**	**6**
Connecticut	0	0	0	663	663	0	0	13
Maine	0	0	0	0	5	0	0	8
Massachusetts	0	0	0	0	0	0	0	10
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**57**	**6**	**0**	**0**	**7**
New Jersey	0	0	0	80	80	0	0	6
New York	0	0	0	0	11	0	0	6
Pennsylvania	0	0	0	81	6	0	0	10
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**5**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	26	0	0	9
Michigan	0	0	0	0	6	0	0	12
Ohio	0	0	0	0	18	0	0	9
Wisconsin	0	0	0	0	6	0	72	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	114
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	9
North Dakota	0	0	0	0	0	0	0	37
South Atlantic	**0**	**0**	**0**	**152**	**2**	**0**	**2**	**2**
Delaware	0	0	0	0	58	0	0	1
Florida	0	0	0	152	4	0	0	5
Georgia	0	0	0	0	3	0	19	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	6
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	7
East South Central	**0**	**0**	**0**	**121**	**2**	**0**	**88**	**3**
Alabama	0	0	0	0	3	0	0	5
Kentucky	0	0	0	0	12	0	0	9
Mississippi	0	0	0	0	3	0	0	6
Tennessee	0	0	0	121	4	0	88	2
West South Central	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	0	4	0	0	4
Louisiana	0	0	0	0	3	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	8	0	6	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	10
Montana	0	0	0	0	0	0	0	0
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	9
Pacific Contiguous	**0**	**0**	**0**	**42**	**4**	**0**	**3**	**1**
California	0	0	0	42	8	0	3	1
Oregon	0	0	0	0	9	0	0	10
Washington	0	0	0	0	6	0	0	6
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**334**	**0**	**0**	**13**
Alaska	0	0	0	0	334	0	0	6
Hawaii	0	0	0	0	0	0	0	17
U.S. Total	**0**	**0**	**0**	**29**	**1**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	4	7	7	0	4
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	0
Indiana	1	3	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	1	0	0
Wisconsin	1	3	5	0	2
West North Central	**1**	**3**	**4**	**0**	**1**
Iowa	2	8	5	0	3
Kansas	2	1	7	0	2
Minnesota	2	4	6	0	3
Missouri	1	3	6	0	1
Nebraska	5	16	14	0	8
North Dakota	3	5	10	0	5
South Dakota	3	10	12	0	5
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	0	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	0	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	2	4	3	0	2
Mississippi	2	1	5	0	2
Tennessee	1	3	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	1	4	0	2
Louisiana	1	1	2	0	1
Oklahoma	1	1	5	0	1
Texas	2	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	5	6	0	3
Idaho	2	5	2	0	2
Montana	3	8	5	0	4
Nevada	1	2	1	0	1
New Mexico	3	8	9	0	4
Utah	2	5	3	0	2
Wyoming	3	8	4	0	3
Pacific Contiguous	**1**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	2	4	7	0	3
Washington	2	4	6	0	3
Pacific Noncontiguous	**2**	**5**	**4**	**0**	**2**
Alaska	4	12	16	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 July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	1	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	3	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	2	2	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	4	0	2
West North Central	**0**	**2**	**2**	**0**	**1**
Iowa	1	6	4	0	2
Kansas	1	1	5	0	1
Minnesota	1	3	5	0	2
Missouri	1	2	5	0	1
Nebraska	1	6	7	0	3
North Dakota	1	3	7	0	3
South Dakota	1	7	9	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	0	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	2	0	0
North Carolina	1	0	2	0	1
South Carolina	1	1	2	0	1
Virginia	0	0	3	0	0
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**1**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	3	3	0	1
Mississippi	1	1	4	0	1
Tennessee	1	2	4	0	1
West South Central	**1**	**0**	**1**	**0**	**1**
Arkansas	1	1	3	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	1	1	1	0	1
Mountain	**0**	**1**	**1**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	5	0	2
Idaho	1	4	3	0	1
Montana	1	6	5	0	3
Nevada	0	2	1	0	1
New Mexico	1	6	6	0	3
Utah	1	4	2	0	2
Wyoming	1	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	3	7	0	2
Washington	1	3	5	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	1	8	11	0	4
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, July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	1	0	0
Maine	1	1	3	0	1
Massachusetts	1	1	3	0	1
New Hampshire	1	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	3	7	6	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	4	2	0	1
Michigan	0	1	4	0	1
Ohio	1	1	1	0	0
Wisconsin	1	3	6	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	2	5	5	0	2
Kansas	3	2	7	0	2
Minnesota	1	3	7	0	2
Missouri	1	3	4	0	1
Nebraska	5	13	14	0	7
North Dakota	2	5	9	0	4
South Dakota	3	8	12	0	4
South Atlantic	**1**	**1**	**2**	**0**	**0**
Delaware	2	3	5	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	2	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	2	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	1	2	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	2	2	3	0	1
Kentucky	2	5	4	0	2
Mississippi	3	3	6	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	3	3	4	0	2
Louisiana	2	2	2	0	1
Oklahoma	2	2	6	0	2
Texas	2	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	4	0	1
Colorado	2	6	7	0	3
Idaho	1	4	2	0	1
Montana	3	6	7	0	3
Nevada	1	3	1	0	1
New Mexico	3	9	13	0	4
Utah	2	7	4	0	3
Wyoming	3	7	5	0	3
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	1	1	0	0
Oregon	1	3	11	0	2
Washington	1	3	8	0	2
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	4	9	12	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 July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**1**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	0	1	1	0	1
Massachusetts	1	1	3	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	5	4	0	2
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	3	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	1	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	2	5	0	1
Minnesota	1	3	6	0	2
Missouri	1	2	4	0	1
Nebraska	1	5	8	0	3
North Dakota	1	3	6	0	3
South Dakota	2	6	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	4	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	4	3	0	1
Mississippi	2	2	4	0	1
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	2	3	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	0	2	4	0	1
Colorado	1	4	6	0	2
Idaho	1	3	3	0	1
Montana	1	4	10	0	3
Nevada	0	2	1	0	1
New Mexico	1	6	9	0	3
Utah	1	4	3	0	2
Wyoming	2	5	4	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	1	0	0
Oregon	1	2	9	0	2
Washington	1	2	7	0	1
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	2	6	9	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, July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**0**	**0**
Connecticut	0	0	2	0	0
Maine	1	1	1	0	0
Massachusetts	1	0	2	0	0
New Hampshire	0	0	1	0	0
Rhode Island	0	0	0	0	0
Vermont	2	2	2	0	1
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	0	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	0	0	0
East North Central	**0**	**0**	**0**	**0**	**0**
Illinois	0	0	0	0	0
Indiana	1	1	1	0	1
Michigan	0	1	1	0	0
Ohio	0	0	0	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**1**	**0**	**1**
Iowa	1	3	2	0	1
Kansas	2	1	3	0	1
Minnesota	1	1	2	0	1
Missouri	1	1	2	0	1
Nebraska	2	4	5	0	3
North Dakota	1	1	3	0	2
South Dakota	2	3	4	0	2
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	1	1	2	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	2	0	1
Georgia	1	1	2	0	1
Maryland	0	0	1	0	0
North Carolina	1	1	1	0	1
South Carolina	1	1	1	0	1
Virginia	1	1	2	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	1	1	1	0	1
Mississippi	2	2	3	0	1
Tennessee	1	1	1	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	1	2	0	1
Texas	1	1	1	0	1
Mountain	**0**	**1**	**1**	**0**	**0**
Arizona	0	1	1	0	0
Colorado	1	2	3	0	1
Idaho	1	1	1	0	1
Montana	2	2	3	0	1
Nevada	0	1	0	0	0
New Mexico	2	3	5	0	2
Utah	1	2	1	0	1
Wyoming	2	2	2	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	1	5	0	1
Washington	1	2	2	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	3	5	7	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 July 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	6	6	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	1
Indiana	1	3	2	0	1
Michigan	0	2	3	0	1
Ohio	0	1	1	0	1
Wisconsin	1	3	5	0	2
West North Central	**0**	**2**	**3**	**0**	**1**
Iowa	1	6	6	0	3
Kansas	1	2	6	0	2
Minnesota	1	4	7	0	2
Missouri	1	3	5	0	1
Nebraska	1	7	9	0	3
North Dakota	1	4	8	0	3
South Dakota	1	8	12	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	4	6	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	4	3	0	2
Mississippi	1	2	5	0	2
Tennessee	1	3	5	0	2
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	5	0	1
Texas	2	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	0	5	7	0	2
Idaho	1	4	3	0	2
Montana	1	6	10	0	3
Nevada	0	3	1	0	1
New Mexico	1	7	10	0	4
Utah	0	5	3	0	2
Wyoming	1	7	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	10	0	2
Washington	1	4	8	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	2	9	13	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 2018

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
2018	1	01/01/2018 5:43 PM	. .	. Hours, . Minutes	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 6:21 PM	01/02/2018 6:11 PM	23 Hours, 50 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 9:37 PM	01/02/2018 10:30 AM	12 Hours, 53 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/02/2018 6:45 AM	01/02/2018 9:00 AM	2 Hours, 15 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	System-wide voltage reductions of 3 percent or more-Severe Weather	14998	Unknown
2018	1	01/02/2018 7:30 AM	. .	. Hours, . Minutes	South Carolina Electric and Gas	SERC	South Carolina:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	0	717000
2018	1	01/02/2018 10:00 AM	02/12/2018 8:00 AM	982 Hours, 0 Minutes	Somerset Operating Company, LLC	NPCC	New York: Niagara County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	675	Unknown
2018	1	01/15/2018 4:20 AM	01/18/2018 5:48 AM	73 Hours, 28 Minutes	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 1:57 PM	01/16/2018 2:32 PM	0 Hours, 35 Minutes	ERCOT	TRE	Texas:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/17/2018 5:10 AM	01/17/2018 1:00 PM	7 Hours, 50 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1788	420000
2018	1	01/17/2018 6:10 AM	01/17/2018 2:00 PM	7 Hours, 50 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/18/2018 5:00 AM	01/18/2018 9:45 AM	4 Hours, 45 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1760	420000
2018	1	01/18/2018 5:00 AM	01/18/2018 11:00 AM	6 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Arkansas: Mississippi: Louisiana: Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	31500	Unknown
2018	1	01/18/2018 6:00 AM	. .	. Hours, . Minutes	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	2	02/08/2018 1:25 PM	02/08/2018 1:31 PM	0 Hours, 6 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	30	10900
2018	3	03/01/2018 11:43 AM	03/01/2018 11:56 AM	0 Hours, 13 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	38	10898
2018	3	03/01/2018 9:57 PM	03/02/2018 10:14 AM	12 Hours, 17 Minutes	The Illuminating Company	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	86501
2018	3	03/01/2018 10:20 PM	03/04/2018 8:00 PM	69 Hours, 40 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Washtenaw County, Oakland County, Macomb County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	95000
2018	3	03/02/2018 7:00 AM	. .	. Hours, . Minutes	Central Hudson Gas & Elec Corp	NPCC	New York: Dutchess County, Orange County, Greene County, Ulster County, Putnam County, Sullivan County, Albany County, Columbia County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2018	3	03/02/2018 8:00 AM	03/03/2018 11:00 PM	39 Hours, 0 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65198
2018	3	03/02/2018 8:42 AM	. .	. Hours, . 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	63331

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	3	03/02/2018 11:34 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2018	3	03/02/2018 11:58 AM	. .	. Hours, . Minutes	PPL Electric Utilities Corp	RF	Pennsylvania: Berks County, Bucks County, Carbon County, Chester County, Clinton County, Columbia County, Cumberland County, Dauphin County, Juniata County, Lackawanna County, Lancaster County, Lebanon County, Lehigh County, Luzerne County, Lycoming County, Monroe County, Montgomery County, Montour County, Northampton County, Northumberland County, Pike County, Schuylkill County, Snyder County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	126000
2018	3	03/02/2018 12:00 PM	. .	. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	670	474019
2018	3	03/02/2018 12:00 PM	03/05/2018 12:00 AM	60 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	630000
2018	3	03/02/2018 1:51 PM	03/04/2018 12:11 PM	46 Hours, 20 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233136
2018	3	03/02/2018 1:51 PM	03/05/2018 1:18 PM	71 Hours, 27 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	325000
2018	3	03/02/2018 3:10 PM	03/06/2018 4:57 AM	85 Hours, 47 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	249322
2018	3	03/02/2018 3:46 PM	03/04/2018 7:46 PM	52 Hours, 0 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New York County, Westchester County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72353
2018	3	03/02/2018 5:00 PM	03/06/2018 11:00 AM	90 Hours, 0 Minutes	Delmarva Power & Light Company	RF	Delaware: Maryland:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60000
2018	3	03/07/2018 12:00 PM	03/07/2018 5:00 PM	5 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	3	03/07/2018 4:10 PM	03/10/2018 11:32 AM	67 Hours, 22 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	216800
2018	3	03/07/2018 5:15 PM	. .	. Hours, . 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	50	58000
2018	3	03/07/2018 7:37 PM	03/10/2018 4:35 PM	68 Hours, 58 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	102000
2018	3	03/13/2018 8:50 AM	03/14/2018 11:22 PM	38 Hours, 32 Minutes	ISO New England	NPCC	Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	123629
2018	3	03/19/2018 11:29 PM	03/20/2018 3:37 AM	4 Hours, 8 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	261	78220
2018	3	03/20/2018 7:00 PM	03/25/2018 6:30 AM	107 Hours, 30 Minutes	Atlantic City Electric Co	RF	New Jersey: Atlantic County, Camden County, Cape May County, Gloucester County, Salem County, Cumberland County, Burlington County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	80	124000
2018	3	03/24/2018 10:30 PM	03/26/2018 8:00 PM	45 Hours, 30 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	81227
2018	4	04/04/2018 4:42 PM	04/07/2018 6:22 AM	61 Hours, 40 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	72896
2018	4	04/05/2018 12:50 AM	04/05/2018 4:00 PM	15 Hours, 10 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	65932
2018	4	04/09/2018 11:16 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	300	250000
2018	4	04/09/2018 12:16 PM	04/09/2018 1:52 PM	1 Hours, 36 Minutes	Pacificorp	WECC	Utah: Salt Lake County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	806	57000
2018	4	04/14/2018 9:30 AM	04/14/2018 10:00 AM	0 Hours, 30 Minutes	Entergy Corp	SERC	Louisiana: Arkansas: Mississippi: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56350
2018	4	04/15/2018 7:30 AM	04/18/2018 7:30 AM	72 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	389591
2018	4	04/15/2018 5:14 PM	04/15/2018 11:25 PM	6 Hours, 11 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	78100
2018	5	05/04/2018 12:00 PM	05/06/2018 1:00 PM	49 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	300000
2018	5	05/04/2018 2:00 PM	05/05/2018 9:30 AM	19 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Calhoun County, Genesee County, Ingham County, Kent County, Macomb County, Midland County, Saginaw County, Gratiot County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	5	05/04/2018 8:10 PM	. .	. Hours, . 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	106150
2018	5	05/04/2018 11:10 PM	05/05/2018 12:40 AM	1 Hours, 30 Minutes	ISO New England	NPCC	New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56000
2018	5	05/05/2018 4:30 AM	05/05/2018 3:30 PM	11 Hours, 0 Minutes	ISO New England	NPCC	Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	31900
2018	5	05/14/2018 7:08 PM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	5	05/15/2018 2:50 PM	. .	. Hours, . Minutes	PPL Electric Utilities Corp	RF	Pennsylvania: Lehigh County, Schuylkill County, Cumberland County, Lancaster County, Northampton County, Berks County, Clinton County, Susquehanna County, Bucks County, Carbon County, Chester County, Columbia County, Juniata County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	114000
2018	5	05/15/2018 4:00 PM	. .	. Hours, . Minutes	Central Hudson Gas & Electric	NPCC	New York: Dutchess County, Ulster County, Orange County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72000
2018	5	05/15/2018 5:15 PM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	49999
2018	5	05/15/2018 5:25 PM	. .	. Hours, . 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	82372
2018	5	05/15/2018 6:14 PM	05/15/2018 7:00 PM	0 Hours, 46 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52872
2018	5	05/15/2018 6:35 PM	05/18/2018 3:57 PM	69 Hours, 22 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	5	05/17/2018 1:11 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	California: Contra Costa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	70	70000
2018	5	05/17/2018 1:11 AM	05/18/2018 12:38 AM	23 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption	124	70000
2018	5	05/26/2018 6:40 PM	05/27/2018 11:50 PM	29 Hours, 10 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	163932
2018	6	06/02/2018 5:00 AM	06/02/2018 11:00 AM	6 Hours, 0 Minutes	Kansas City Power & Light Co.	SPP RE	Missouri: Jackson County, Clay County, Platte County, Andrew County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103535
2018	6	06/18/2018 6:20 PM	06/19/2018 12:15 AM	5 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	112927
2018	6	06/20/2018 10:58 PM	06/21/2018 6:05 AM	7 Hours, 7 Minutes	Lake Worth Utilities	FRCC	Florida: Palm Beach County;	Complete operational failure or shut-down of the transmission and/or distribution of electrical system-Transmission Interruption	73	27000
2018	6	06/22/2018 2:38 PM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington:	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	10000	4200000
2018	6	06/28/2018 2:50 PM	06/29/2018 9:00 AM	18 Hours, 10 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	160	48109
2018	6	06/28/2018 6:36 PM	07/01/2018 7:00 AM	60 Hours, 24 Minutes	Ameren Missouri	SERC	Missouri: Illinois:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	6	06/29/2018 7:35 AM	06/29/2018 9:30 AM	1 Hours, 55 Minutes	Minnesota Power	MRO	Minnesota: St. Louis County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Severe Weather	350	Unknown
2018	7	07/11/2018 12:58 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
2018	7	07/11/2018 3:40 PM	07/11/2018 4:00 PM	0 Hours, 20 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Transmission Interruption	425	26195
2018	7	07/16/2018 5:15 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Merced County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2018	7	07/18/2018 4:00 AM	. .	. Hours, . 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
2018	7	07/18/2018 5:28 PM	07/18/2018 5:31 PM	0 Hours, 3 Minutes	Bonneville Power Administration	WECC	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/Transmission Interruption	Unknown	Unknown
2018	7	07/20/2018 4:19 PM	07/20/2018 4:48 PM	0 Hours, 29 Minutes	Tennessee Valley Authority	SERC	Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	87833

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	7	07/21/2018 4:45 AM	07/21/2018 11:15 AM	6 Hours, 30 Minutes	Entergy Corp	SERC	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	64930
2018	7	07/21/2018 7:20 AM	07/21/2018 11:30 AM	4 Hours, 10 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	143	42901
2018	7	07/23/2018 4:16 AM	07/23/2018 4:29 AM	0 Hours, 13 Minutes	Duke Energy Florida	FRCC	Florida: Pinellas 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	40	Unknown
2018	7	07/26/2018 8:24 PM	. .	. Hours, . Minutes	Redding Electric Utility	WECC	California: Shasta County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-Natural Disaster	Unknown	Unknown
2018	7	07/27/2018 9:34 AM	07/27/2018 9:51 AM	0 Hours, 17 Minutes	Peak Reliability	WECC	Washington: Clark 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-System Operations	Unknown	Unknown
2018	7	07/27/2018 4:28 PM	07/27/2018 4:33 PM	0 Hours, 5 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New 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).-Severe Weather/Transmission Interruption	0	0
2018	7	07/29/2018 2:33 PM	07/29/2018 6:23 PM	3 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	83	57670
2018	7	07/30/2018 6:30 AM	07/30/2018 11:00 PM	16 Hours, 30 Minutes	Arizona Public Service Co	WECC	Arizona: Maricopa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000

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, 2017

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
2017	1	01/08/2017 9:07 AM	01/13/2017 2:30 PM	125 Hours, 23 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	106000
2017	1	01/08/2017 11:59 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
2017	1	01/10/2017 7:30 PM	01/13/2017 2:30 PM	67 Hours, 0 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	87000
2017	1	01/15/2017 6:35 AM	01/15/2017 7:44 AM	1 Hours, 9 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-Transmission Disruption	176	126000
2017	1	01/15/2017 9:27 AM	01/17/2017 1:58 AM	40 Hours, 31 Minutes	Oklahoma Municipal Power Authority	SPP	Oklahoma: Harper County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	1	788
2017	1	01/18/2017 6:05 PM	01/19/2017 12:05 AM	6 Hours, 0 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	75000
2017	1	01/22/2017 4:15 AM	01/24/2017 2:00 PM	57 Hours, 45 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	97	64000
2017	1	01/22/2017 6:00 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
2017	1	01/22/2017 4:00 PM	01/23/2017 3:26 AM	11 Hours, 26 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	100	29965
2017	2	02/02/2017 1:04 AM	02/02/2017 5:00 AM	3 Hours, 56 Minutes	Public Service Company of New Mexico	WECC	New Mexico: Bernalillo County, Santa Fe County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	396	149223
2017	2	02/02/2017 1:11 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	New Mexico: Bernalillo County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	400	Unknown
2017	2	02/13/2017 1:00 PM	02/15/2017 1:35 PM	48 Hours, 35 Minutes	North Carolina Mun Power Agny #1	SERC	North Carolina: Union County;	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism	0	0
2017	2	02/17/2017 8:09 AM	02/22/2017 7:30 PM	131 Hours, 21 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	254	169250
2017	2	02/17/2017 1:00 PM	02/17/2017 1:15 PM	0 Hours, 15 Minutes	Nevada Power Company d/b/a NV Energy	WECC	Nevada: Clark County;	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism	0	0
2017	2	02/17/2017 3:00 PM	02/20/2017 11:00 AM	68 Hours, 0 Minutes	LADWP	WECC	California: Los Angeles County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	111591
2017	3	03/01/2017 8:30 AM	03/01/2017 2:00 PM	5 Hours, 30 Minutes	Tennessee Valley Authority	SERC	Tennessee: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58000
2017	3	03/01/2017 11:49 AM	03/02/2017 9:30 PM	33 Hours, 41 Minutes	American Electric Power	RFC	Kentucky: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	98575
2017	3	03/02/2017 12:20 PM	03/02/2017 11:45 PM	11 Hours, 25 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	54316
2017	3	03/06/2017 8:00 PM	03/07/2017 1:00 AM	5 Hours, 0 Minutes	Kansas City Power & Light Co	SERC	Missouri: Jackson County, Platte County, Cass County, Lafayette County, Chariton County, Carroll County, Clay County, Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	97734
2017	3	03/08/2017 9:30 AM	03/11/2017 5:00 AM	67 Hours, 30 Minutes	Consumers Energy Co	RFC	Michigan: Jackson County, Calhoun County, Ingham County, Hillsdale County, Washtenaw County, Kent County, Ottawa County, Midland County, Saginaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	343000
2017	3	03/08/2017 11:30 AM	03/08/2017 7:52 PM	8 Hours, 22 Minutes	Cleveland Electric Illum Co	RFC	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	71012
2017	3	03/08/2017 12:00 PM	03/11/2017 11:31 AM	71 Hours, 31 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	800000
2017	3	03/08/2017 1:30 PM	03/08/2017 4:30 PM	3 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/Transmission Interruption	Unknown	106869
2017	3	03/08/2017 3:33 PM	. .	. Hours, . Minutes	Rochester Gas & Electric Corp	NPCC	New York	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2017	3	03/14/2017 12:32 PM	. .	. Hours, . Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island: New Hampshire: Maine: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	69647
2017	3	03/21/2017 8:00 PM	03/22/2017 9:15 AM	13 Hours, 15 Minutes	Southern Company	SERC	Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	857	257000
2017	3	03/29/2017 3:30 AM	03/31/2017 6:00 AM	50 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	175000

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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
2017	4	04/03/2017 11:00 AM	04/03/2017 8:00 PM	9 Hours, 0 Minutes	Southern Company	SERC	Alabama, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	290	86330
2017	4	04/06/2017 7:00 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	Unknown	100000
2017	4	04/07/2017 4:33 AM	04/07/2017 8:20 AM	3 Hours, 47 Minutes	Pacificorp	WECC	Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	100	64852
2017	4	04/07/2017 8:15 AM	04/08/2017 12:14 AM	15 Hours, 59 Minutes	Portland General Electric Co	WECC	Oregon: Multnomah County, Washington County, Marion County, Clackamas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	153867
2017	4	04/24/2017 5:32 AM	04/24/2017 6:33 AM	1 Hours, 1 Minutes	Duke Energy Carolinas	SERC	North Carolina: Mecklenburg County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	240	74698
2017	4	04/30/2017 1:00 AM	04/30/2017 5:45 PM	16 Hours, 45 Minutes	Entergy Corp	SERC	Arkansas, Louisiana, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	145174
2017	5	05/01/2017 11:14 PM	05/01/2017 11:34 PM	0 Hours, 20 Minutes	Pennsylvania Electric Co	RFC	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	92390
2017	5	05/03/2017 6:58 PM	05/03/2017 9:15 PM	2 Hours, 17 Minutes	Southern California Edison Co	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	572	0
2017	5	05/03/2017 7:05 PM	05/03/2017 9:00 PM	1 Hours, 55 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	878	Unknown
2017	5	05/04/2017 5:00 AM	05/04/2017 10:00 PM	17 Hours, 0 Minutes	Southern Company	SERC	Alabama: Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	60377
2017	5	05/07/2017 5:15 AM	. .	. Hours, . 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
2017	5	05/07/2017 11:30 PM	05/08/2017 5:00 AM	5 Hours, 30 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	80	0
2017	5	05/19/2017 5:30 AM	. .	. Hours, . Minutes	Ameren Missouri	SERC	Missouri: St. Louis County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	70696
2017	5	05/27/2017 11:00 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee: Shelby County, Putnam County, Knox County, Davidson County, Hamilton County; Alabama: Madison County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	116000
2017	5	05/27/2017 11:10 PM	. .	. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	391	188000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas: Louisiana	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 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	103000
2017	6	06/11/2017 2:39 PM	06/11/2017 5:55 PM	3 Hours, 16 Minutes	MISO	RFC	Michigan	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	63	Unknown
2017	7	07/07/2017 3:30 AM	07/08/2017 7:30 PM	40 Hours, 0 Minutes	Consumers Energy Co	RFC	Michigan: Kent County, Ottawa County, Muskegon County, Barry County, Oceana County, Eaton County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160000
2017	7	07/08/2017 6:52 PM	07/09/2017 8:00 AM	13 Hours, 8 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles County	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	645	176867
2017	7	07/18/2017 4:23 PM	07/18/2017 6:39 PM	2 Hours, 16 Minutes	Western Area Power Administration - Western Area Lower Colorado	WECC	Nevada	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	0	0
2017	7	07/22/2017 10:00 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SERC	Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	131000
2017	7	07/22/2017 10:00 PM	. .	. Hours, . Minutes	KCP&L Greater Missouri Operations Company	SERC	Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	115000
2017	7	07/22/2017 10:00 PM	07/23/2017 12:00 PM	14 Hours, 0 Minutes	Kansas City Power & Light Co	SERC	Missouri: Clay County, Jackson County, Lafayette County, Platte County; Kansas: Johnson County, Miami County, Wyandotte County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112540
2017	7	07/23/2017 4:00 AM	. .	. Hours, . Minutes	Ameren Missouri	SERC	Missouri: Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000
2017	7	07/27/2017 6:00 AM	07/27/2017 11:29 AM	5 Hours, 29 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

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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
2017	8	08/21/2017 11:41 PM	08/22/2017 12:21 AM	0 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	1	2
2017	8	08/25/2017 6:17 PM	09/02/2017 5:00 PM	190 Hours, 43 Minutes	American Electric Power - Texas	TRE	Texas: Matagorda County, Nueces County, Aransas County, Refugio County, San Patricio County, Calhoun County, Victoria County, Jackson County, Live Oak County, Jim Wells County, Bee County, Lavaca County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	220400
2017	8	08/25/2017 6:30 PM	09/05/2017 5:00 PM	262 Hours, 30 Minutes	ERCOT	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	330000
2017	8	08/26/2017 12:39 AM	08/26/2017 12:52 AM	0 Hours, 13 Minutes	ERCOT	TRE	Texas	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	Unknown
2017	8	08/26/2017 6:26 AM	09/08/2017 12:00 AM	305 Hours, 34 Minutes	CenterPoint Energy	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	1076868
2017	8	08/27/2017 5:10 AM	09/08/2017 12:00 AM	282 Hours, 50 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	1076868
2017	8	08/30/2017 2:15 AM	. .	. Hours, . Minutes	Entergy Corp	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	78500
2017	8	08/31/2017 2:49 PM	08/31/2017 5:14 PM	2 Hours, 25 Minutes	Southern California Edison Co	WECC	California: Los Angeles County	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	100	0
2017	9	09/01/2017 3:41 PM	09/01/2017 8:30 PM	4 Hours, 49 Minutes	Southern California Edison Co	WECC	California:	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	337	0
2017	9	09/09/2017 12:00 AM	. .	. Hours, . Minutes	Tampa Electric Company	FRCC	Florida: Hillsborough County, Pasco County, Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1275	425000
2017	9	09/09/2017 12:30 PM	. .	. 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	3500000
2017	9	09/10/2017 6:35 PM	09/13/2017 5:00 PM	70 Hours, 25 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Brevard County, Citrus County, Columbia County, Dixie County, Flagler County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Leon County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Po	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	4500	1000000
2017	9	09/10/2017 8:37 PM	. .	. Hours, . Minutes	Seminole Electric Cooperative Inc	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	452555
2017	9	09/11/2017 12:30 AM	. .	. Hours, . Minutes	Lakeland Electric	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	20000
2017	9	09/11/2017 2:27 AM	09/15/2017 8:44 PM	114 Hours, 17 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	132	39659
2017	9	09/11/2017 12:55 PM	09/12/2017 8:00 AM	19 Hours, 5 Minutes	South Carolina Electric and Gas	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	687	154832
2017	9	09/11/2017 5:30 PM	09/13/2017 9:30 AM	40 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	365	265729
2017	10	10/08/2017 3:00 AM	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Florida: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	306	91945
2017	10	10/09/2017 2:03 AM	10/17/2017 1:30 PM	203 Hours, 27 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	177	117900
2017	10	10/09/2017 6:44 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	100	Unknown
2017	10	10/12/2017 9:09 AM	. .	. Hours, . Minutes	Clarksdale Public Utilities	SERC	Mississippi: Coahoma County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2017	10	10/16/2017 3:45 PM	10/16/2017 4:09 PM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Montana:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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
2017	10	10/16/2017 3:55 PM	10/16/2017 4:10 PM	0 Hours, 15 Minutes	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/20/2017 3:44 AM	10/20/2017 3:45 AM	0 Hours, 1 Minutes	Peak Reliability	WECC	Washington:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	900	Unknown
2017	10	10/22/2017 8:45 AM	10/22/2017 2:00 PM	5 Hours, 15 Minutes	Entergy Corp	SERC	Louisiana: Mississippi: Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2017	10	10/23/2017 5:50 PM	10/24/2017 6:17 PM	24 Hours, 27 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	440	115144
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Whatcom County; Montana:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/29/2017 11:40 PM	11/01/2017 6:08 PM	66 Hours, 28 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	310453
2017	11	11/01/2017 3:40 PM	11/01/2017 10:00 PM	6 Hours, 20 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	0	0
2017	11	11/05/2017 7:35 PM	11/05/2017 11:09 PM	3 Hours, 34 Minutes	Ohio Edison Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	89216
2017	11	11/13/2017 2:00 AM	11/15/2017 8:17 AM	54 Hours, 17 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kitsap County, Thurston County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	236100
2017	11	11/13/2017 4:33 PM	11/16/2017 6:00 AM	61 Hours, 27 Minutes	Seattle City Light, Sytem Control Center	WECC	Washington: King County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	85	68430
2017	12	12/04/2017 9:53 PM	. .	. Hours, . Minutes	Southern California Edison Co	WECC	California:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather/Transmission Interruption	540	263000
2017	12	12/05/2017 6:30 AM	12/06/2017 10:00 AM	27 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Oscoda County, Isabella County, Roscommon County, Ogemaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	117500
2017	12	12/07/2017 8:00 PM	12/08/2017 5:00 PM	21 Hours, 0 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	88000
2017	12	12/08/2017 9:30 AM	12/08/2017 10:30 PM	13 Hours, 0 Minutes	Entergy Corp	SERC	Louisiana: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	79000
2017	12	12/08/2017 10:00 AM	12/10/2017 8:50 PM	58 Hours, 50 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	865	301872
2017	12	12/10/2017 1:25 AM	12/10/2017 2:30 AM	1 Hours, 5 Minutes	Southern California Edison Co	WECC	California: Ventura County, Santa Barbara County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	110	51323
2017	12	12/13/2017 9:55 AM	12/13/2017 2:45 PM	4 Hours, 50 Minutes	Long Island Power Authority	NPCC	New York: Suffolk County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	12	12/29/2017 7:00 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	210	Unknown

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 Electricity, Renewables & Uranium Statistics (ERUS), 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 approxi-mately 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 approxi-mately 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 sample21,24. 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 another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

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

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

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

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

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

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the 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 October 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 December 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 combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

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

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	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 waste solids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	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:

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 Environmental Protection Agency publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

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 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	2010
Biogenic	57	56	55	55	56	57	55	54	51	50
Non-biogenic	43	44	45	45	44	43	46	46	49	50

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	77	77	76	76	75	67	65	65	64	64
Non-biogenic	23	23	24	24	25	34	35	35	36	36

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:

$$y_{i_{2015,m}} = \beta_1 x_{i_{2013}} + w_i^{-1/2} e_i \text{, where}$$

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

$y_{i_{2015,m}}$ 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 $x_{i_{2013}}$

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 further description of this model is located here. 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, US census region and US 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

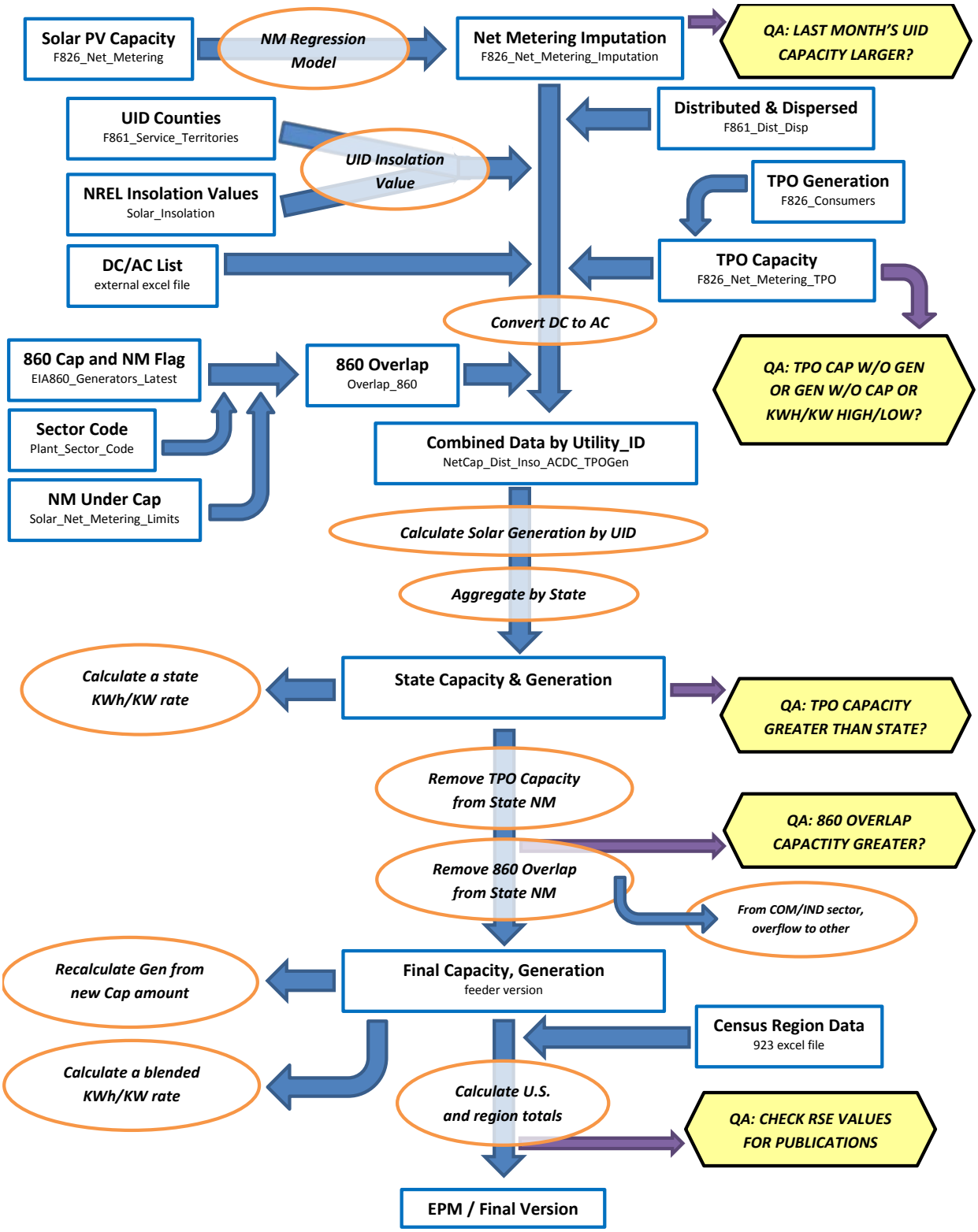
TMY3 (1991-2005) Weather Stations by MSA

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, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
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, August 1999, http://interstat.statjournals.net/; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, http://interstat.statjournals.net/.

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, July 2018

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	18.87	5.84	--	1.03
Connecticut	18.41	5.80	--	1.03
Maine	25.50	6.25	--	1.06
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	21.54	5.88	--	1.03
New Jersey	26.91	5.77	--	1.03
New York	25.72	5.79	--	1.03
Pennsylvania	21.36	5.90	--	1.04
East North Central	20.07	5.79	27.64	1.04
Illinois	17.74	5.80	--	1.02
Indiana	22.19	5.76	--	1.05
Michigan	18.74	5.84	27.64	1.05
Ohio	24.76	5.80	--	1.06
Wisconsin	17.65	--	27.60	1.03
West North Central	16.58	5.80	26.50	1.07
Iowa	17.72	5.78	26.50	1.09
Kansas	17.19	5.80	--	1.05
Minnesota	17.58	5.80	--	1.09
Missouri	17.69	5.79	--	1.04
Nebraska	17.00	--	--	1.07
North Dakota	13.07	5.86	--	1.01
South Dakota	16.58	6.00	--	--
South Atlantic	23.47	6.01	28.34	1.03
Delaware	--	5.83	--	1.04
District of Columbia	--	--	--	--
Florida	23.73	5.86	28.34	1.02
Georgia	19.95	5.89	--	1.03
Maryland	25.10	5.81	--	1.04
North Carolina	24.82	5.97	--	1.03
South Carolina	24.87	5.78	--	1.03
Virginia	20.93	6.09	--	1.04
West Virginia	24.87	5.85	--	1.08
East South Central	20.69	5.69	--	1.02
Alabama	19.60	5.52	--	1.03
Kentucky	22.26	5.80	--	1.03
Mississippi	13.58	5.90	--	1.02
Tennessee	22.21	5.76	--	1.00
West South Central	16.18	5.82	28.83	1.03
Arkansas	17.47	--	--	1.02
Louisiana	16.70	5.90	28.83	1.03
Oklahoma	17.28	6.00	--	1.03
Texas	15.76	5.73	--	1.02
Mountain	18.87	5.76	--	1.05
Arizona	19.47	5.68	--	1.04
Colorado	18.49	--	--	1.10
Idaho	--	--	--	1.00
Montana	17.01	5.92	--	1.05
Nevada	20.52	5.81	--	1.04
New Mexico	18.57	5.66	--	1.04
Utah	21.63	5.88	--	1.03
Wyoming	17.52	5.80	--	1.05
Pacific Contiguous	17.95	6.00	--	1.04
California	22.92	--	--	1.03
Oregon	17.47	--	--	1.05
Washington	16.87	6.00	--	1.10
Pacific Noncontiguous	18.65	6.16	--	1.00
Alaska	14.73	5.60	--	1.00
Hawaii	19.45	6.16	--	--
U.S. Total	19.03	6.07	28.38	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, 2014 through 2016

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2014**	**2015**	**2016**
Net Generation			
Coal	0.25%	0.33%	0.09%
Petroleum Liquids	2.32%	1.00%	3.08%
Petroleum Coke	2.96%	1.60%	1.46%
Natural Gas	0.42%	0.18%	0.30%
Other Gases	4.12%	3.90%	3.76%
Hydroelectric	0.49%	1.08%	0.76%
Nuclear	0.01%	0.01%	0.05%
Other	0.43%	0.80%	0.76%
Total	**0.08%**	**0.23%**	**0.08%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.13%	0.24%	0.11%
Petroleum Liquids	2.17%	2.28%	5.81%
Petroleum Coke	3.19%	1.50%	0.87%
Natural Gas	0.48%	0.32%	2.26%
Fuel Stocks for Electric Power Sector			
Coal	0.38%	0.40%	0.72%
Petroleum Liquids	4.25%	2.92%	3.19%
Petroleum Coke	0.61%	0.04%	0.27%
Retail Sales			
Residential	0.30%	0.30%	0.26%
Commercial	0.38%	0.18%	0.55%
Industrial	4.39%	2.92%	4.31%
Transportation	0.44%	0.37%	0.06%
Total	**1.10%**	**0.93%**	**1.40%**
Revenue			
Residential	0.43%	0.15%	0.28%
Commercial	0.47%	0.62%	1.21%
Industrial	5.66%	3.15%	4.54%
Transportation	1.92%	1.09%	1.53%
Total	**1.01%**	**0.83%**	**1.34%**
Average Retail Price			
Residential	0.12%	0.15%	0.05%
Commercial	0.20%	0.44%	0.65%
Industrial	1.20%	0.31%	0.24%
Transportation	2.18%	0.83%	1.57%
Total	**0.16%**	**0.11%**	**0.10%**
Receipt of Fossil Fuels			
Coal	2.20%	1.70%	1.92%
Petroleum Liquids	0.49%	1.86%	1.16%
Petroleum Coke	2.03%	2.47%	0.01%
Natural Gas	0.26%	0.25%	0.21%
Cost of Fossil Fuels			
Coal	0.18%	0.04%	0.12%
Petroleum Liquids	0.04%	0.25%	0.26%
Petroleum Coke	1.03%	1.42%	0.12%
Natural Gas	0.06%	0.14%	0.12%

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, 2014 through 2016

	2014			2015			2016		
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	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%	1,240,108	1,239,149	-0.08%
Petroleum Liquids	18,708	18,276	-2.31%	17,456	17,372	-0.48%	12,675	13,008	2.63%
Petroleum Coke	11,781	11,955	1.48%	10,987	10,877	-1.00%	11,232	11,197	-0.31%
Natural Gas	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%	1,380,295	1,378,307	-0.14%
Other Gases	11,578	12,022	3.83%	12,963	13,117	1.18%	13,000	12,807	-1.48%
Hydroelectric	252,540	253,193	0.26%	246,075	243,989	-0.85%	259,143	261,126	0.77%
Nuclear	797,067	797,166	0.01%	797,178	797,178	0.00%	805,327	805,694	0.05%
Other	293,636	292,674	-0.33%	311,597	309,189	-0.77%	357,299	355,387	-0.54%
Total	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,675**	**-0.06%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	854,416	853,634	-0.09%	740,855	739,594	-0.17%	678,005	677,371	-0.09%
Petroleum Liquids (1,000 barrels)	32,084	31,531	-1.72%	29,545	28,925	-2.10%	21,225	22,405	5.56%
Petroleum Coke (1,000 tons)	4,325	4,412	2.02%	4,088	4,044	-1.07%	4,275	4,253	-0.52%
Natural Gas (1,000 Mcf)	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%	10,400,189	10,170,110	-2.21%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	151,362	151,548	0.12%	197,128	195,548	-0.80%	163,946	162,009	-1.18%
Petroleum Liquids (1,000 barrels)	32,139	33,505	4.25%	32,223	32,884	2.05%	30,880	31,839	3.11%
Petroleum Coke (1,000 tons)	847	827	-2.29%	1,342	1,340	-0.15%	872	845	-3.10%
Retail Sales (Million kWh)									
Residential	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%	1,407,394	1,411,058	0.26%
Commercial	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%	1,359,617	1,367,191	0.56%
Industrial	955,488	997,576	4.40%	958,563	986,508	2.92%	936,269	976,715	4.32%
Transportation	7,776	7,758	-0.24%	7,659	7,637	-0.29%	7,499	7,497	-0.03%
Total	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**	**3,710,779**	**3,762,462**	**1.39%**
Revenue (Million Dollars)									
Residential	175,404	176,178	0.44%	177,367	177,624	0.14%	176,585	177,077	0.28%
Commercial	145,889	145,253	-0.44%	143,893	144,781	0.62%	140,937	142,643	1.21%
Industrial	67,019	70,855	5.72%	66,088	68,166	3.14%	63,201	66,068	4.54%
Transportation	798	810	1.51%	779	771	-1.12%	711	722	1.53%
Total	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**	**381,435**	**386,509**	**1.33%**
Average Retail Price (Cents/kWh)									
Residential	12.50	12.52	0.13%	12.67	12.65	-0.16%	12.55	12.55	0.02%
Commercial	10.75	10.74	-0.04%	10.59	10.64	0.44%	10.37	10.43	0.65%
Industrial	7.01	7.10	1.26%	6.89	6.91	0.22%	6.75	6.76	0.21%
Transportation	10.27	10.45	1.75%	10.17	10.09	-0.83%	9.48	9.63	1.55%
Total	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**	**10.28**	**10.27**	**-0.06%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	836,196	854,560	2.20%	769,866	782,929	1.70%	638,564	650,770	1.91%
Petroleum Liquids (1,000 barrels)	28,355	28,514	0.56%	24,512	24,320	-0.78%	16,610	16,807	1.18%
Petroleum Coke (1,000 tons)	5,091	5,195	2.03%	4,779	4,897	2.46%	4,166	4,166	0.01%
Natural Gas (1,000 Mcf)	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%	10,258,688	10,271,180	0.12%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.37	2.37	0.02%	2.22	2.22	-0.03%	2.12	2.11	-0.15%
Petroleum Liquids (1,000 barrels)	19.89	19.89	-0.03%	11.48	11.49	0.10%	9.36	9.39	0.28%
Petroleum Coke (1,000 tons)	1.96	1.98	0.97%	1.87	1.84	-1.37%	1.65	1.65	0.15%
Natural Gas (1,000 Mcf)	4.99	4.99	0.01%	3.22	3.23	0.18%	2.88	2.87	-0.06%

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 2016 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.