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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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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential		
					Electric Utilities		Independent Power Producers								
Fuel	Facility Type	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Net Generation (Thousand Megawatthours)															
Coal	Utility Scale Facilities	98,416	114,138	-13.8%	71,956	83,223	25,775	30,124	27	29	658	762	0	0
Petroleum Liquids	Utility Scale Facilities	987	946	4.4%	705	644	243	258	8	4	32	41	0	0
Petroleum Coke	Utility Scale Facilities	678	980	-30.9%	523	807	97	113	1	0	56	60	0	0
Natural Gas	Utility Scale Facilities	116,671	125,603	-7.1%	56,654	58,392	52,380	58,805	652	700	6,986	7,706	0	0
Other Gas	Utility Scale Facilities	1,120	1,020	9.7%	NM	23	332	323	0	0	787	674	0	0
Nuclear	Utility Scale Facilities	68,073	65,448	4.0%	35,496	33,919	32,577	31,529	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	18,963	16,368	15.9%	17,449	15,283	1,402	996	14	23	98	65	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	28,821	26,529	8.6%	3,189	3,405	23,071	20,539	260	272	2,301	2,314	0	0
... Wind	Utility Scale Facilities	17,291	16,404	5.4%	2,417	2,737	14,861	13,654	10	9	NM	4	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,145	3,635	41.5%	335	190	4,745	3,394	59	48	6	2	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,417	3,407	0.3%	236	264	955	903	2	8	2,223	2,231	0	0
... Other Biomass	Utility Scale Facilities	1,643	1,757	-6.5%	114	123	1,273	1,351	189	206	67	76	0	0
... Geothermal	Utility Scale Facilities	1,325	1,327	-0.1%	88	91	1,237	1,236	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-606	-715	-15.3%	-522	-626	-84	-89	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,029	1,181	-12.8%	42	35	509	571	85	87	394	489	0	0
All Energy Sources	Utility Scale Facilities	334,152	351,498	-4.9%	185,492	195,105	136,302	143,169	1,046	1,114	11,312	12,111	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,239	1,735	29.0%	0	0	0	0	713	556	235	190	1,291	989
Estimated Total Solar Photovoltaic	All Facilities	7,034	5,007	40.5%	328	185	4,402	3,036	772	605	241	192	1,291	989
Estimated Total Solar	All Facilities	7,384	5,370	37.5%	335	190	4,745	3,394	772	605	241	192	1,291	989
Consumption of Fossil Fuels for Electricity Generation															
Coal (1000 tons)	Utility Scale Facilities	54,700	62,335	-12.2%	39,430	44,665	15,035	17,407	8	8	227	254	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,724	1,620	6.4%	1,254	1,128	417	441	15	7	39	44	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	261	376	-30.5%	209	311	36	49	0	0	16	16	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	883,227	932,041	-5.2%	443,720	451,574	394,688	431,159	3,898	4,223	40,921	45,086	0	0
Consumption of Fossil Fuels for Useful Thermal Output															
Coal (1000 tons)	Utility Scale Facilities	1,152	1,257	-8.4%	216	216	94	97	39	41	803	903	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	120	143	-16.0%	4	3	14	14	15	9	87	117	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	74	75	-0.8%	1	1	9	10	2	0	62	64	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	93,655	95,330	-1.8%	3,643	2,973	26,806	29,581	5,997	6,850	57,210	55,926	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output															
Coal (1000 tons)	Utility Scale Facilities	55,852	63,592	-12.2%	39,646	44,881	15,129	17,504	47	50	1,030	1,157	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,844	1,763	4.6%	1,258	1,131	431	455	30	16	125	161	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	335	451	-25.6%	211	311	45	59	2	0	78	80	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	976,882	1,027,371	-4.9%	447,362	454,547	421,494	460,740	9,895	11,073	98,131	101,012	0	0
Fuel Stocks (end-of-month)															
Coal (1000 tons)	Utility Scale Facilities	140,457	157,933	-11.1%	113,336	127,532	26,195	29,035	86	157	840	1,209	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	31,467	37,792	-16.7%	20,051	20,925	9,592	14,630	398	551	1,426	1,686	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,180	1,058	11.6%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for September									
	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	September 2017	September 2016	Percentage Change	September 2017	September 2016	Percentage Change	September 2017	September 2016	Percentage Change
Residential	118,803	129,363	-8.2%	15,801	16,652	-5.1%	13.30	12.87	3.3%
Commercial	118,293	123,493	-4.2%	13,087	13,298	-1.6%	11.06	10.77	2.7%
Industrial	80,163	83,259	-3.7%	5,783	5,947	-2.8%	7.21	7.14	1.0%
Transportation	619	637	-2.8%	62	64	-2.7%	10.01	10.00	0.1%
All Sectors	317,879	336,752	-5.6%	34,733	35,961	-3.4%	10.93	10.68	2.3%

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 2017 and 2016

Net Generation and Consumption of Fuels for January through September														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	919,805	934,267	-1.5%	686,082	697,326	227,380	229,632	250	279	6,094	7,029	0	0
Petroleum Liquids	Utility Scale Facilities	8,957	9,835	-8.9%	6,587	6,899	1,978	2,497	76	55	315	384	0	0
Petroleum Coke	Utility Scale Facilities	6,574	8,894	-26.1%	5,169	7,200	795	1,020	6	4	605	670	0	0
Natural Gas	Utility Scale Facilities	967,036	1,085,104	-10.9%	471,539	516,566	423,130	494,065	5,665	5,994	66,702	68,478	0	0
Other Gas	Utility Scale Facilities	10,804	9,843	9.8%	113	104	3,014	2,905	0	0	7,677	6,835	0	0
Nuclear	Utility Scale Facilities	599,102	608,119	-1.5%	316,527	324,034	282,575	284,086	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	240,491	209,137	15.0%	222,179	193,240	17,042	14,745	198	158	1,072	995	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	284,584	250,482	13.6%	33,118	30,647	227,236	195,944	2,382	2,445	21,847	21,447	0	0
... Wind	Utility Scale Facilities	182,980	164,106	11.5%	26,155	24,884	156,682	139,078	95	94	48	49	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	41,801	27,672	51.1%	2,676	1,520	38,619	25,712	465	418	41	22	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	32,303	30,764	5.0%	2,437	2,339	8,753	7,829	53	57	21,060	20,539	0	0
... Other Biomass	Utility Scale Facilities	15,513	16,284	-4.7%	1,060	1,106	11,985	12,466	1,770	1,876	698	836	0	0
... Geothermal	Utility Scale Facilities	11,988	11,655	2.9%	790	797	11,198	10,858	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,898	-4,766	2.8%	-4,109	-3,979	-789	-787	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	9,775	10,523	-7.1%	347	315	4,881	5,333	777	808	3,769	4,067	0	0
All Energy Sources	Utility Scale Facilities	3,042,231	3,121,439	-2.5%	1,737,552	1,772,352	1,187,242	1,229,440	9,355	9,743	108,081	109,904	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	19,086	14,836	28.6%	0	0	0	0	6,080	4,885	1,976	1,619	11,030	8,332
Estimated Total Solar Photovoltaic	All Facilities	58,185	39,648	46.8%	2,663	1,455	35,931	22,918	6,545	5,303	2,017	1,641	11,030	8,332
Estimated Total Solar	All Facilities	60,887	42,509	43.2%	2,676	1,520	38,619	25,712	6,545	5,303	2,017	1,641	11,030	8,332
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	504,158	509,911	-1.1%	371,172	374,726	130,833	132,803	73	81	2,081	2,300	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	15,531	17,110	-9.2%	11,564	12,322	3,483	4,300	142	78	342	410	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,582	3,361	-23.2%	2,095	2,756	333	430	2	1	152	174	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	7,282,849	8,044,100	-9.5%	3,663,470	3,973,451	3,192,771	3,632,646	33,756	36,138	392,853	401,865	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	11,351	12,556	-9.6%	2,104	2,222	1,001	996	380	417	7,866	8,921	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,309	1,759	-25.6%	46	52	148	179	200	176	915	1,352	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	698	812	-14.0%	7	4	87	82	11	7	593	718	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	857,619	870,524	-1.5%	31,407	29,024	251,689	273,521	56,689	62,287	517,834	505,693	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	515,509	522,467	-1.3%	373,276	376,948	131,833	133,799	453	498	9,947	11,221	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	16,839	18,868	-10.8%	11,610	12,374	3,631	4,479	341	254	1,257	1,762	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,280	4,173	-21.4%	2,102	2,760	420	512	13	8	745	892	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,140,468	8,914,624	-8.7%	3,694,877	4,002,475	3,444,460	3,906,167	90,445	98,425	910,687	907,557	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through September									
	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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	Percentage Change
Residential	1,054,110	1,095,025	-3.7%	136,510	137,712	-0.9%	12.95	12.58	2.9%
Commercial	1,018,230	1,038,997	-2.0%	109,136	108,683	0.4%	10.72	10.46	2.5%
Industrial	713,525	738,080	-3.3%	49,536	50,110	-1.1%	6.94	6.79	2.2%
Transportation	5,638	5,640	0.0%	549	546	0.6%	9.74	9.69	0.5%
All Sectors	2,791,503	2,877,742	-3.0%	295,731	297,051	-0.4%	10.59	10.32	2.6%

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, 2017 and 2016

Total (All Sectors)

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal (1000 tons)	52,845	60,441	38.55	40.58	270	316	478,853	476,216	40.03	41.00
Petroleum Liquids (1000 barrels)	1,061	1,342	W	57.14	124	167	11,172	12,495	68.60	55.10
Petroleum Coke (1000 tons)	284	381	W	58.30	6	9	2,458	3,162	W	42.25
Natural Gas (1000 Mcf)	733,551	935,630	3.31	3.18	505	799	6,121,073	8,100,438	3.51	2.83

Electric Utilities

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal (1000 tons)	38,557	43,822	39.78	42.34	188	208	350,369	350,476	41.10	42.33
Petroleum Liquids (1000 barrels)	779	896	71.65	55.39	87	98	8,426	9,104	68.27	54.31
Petroleum Coke (1000 tons)	274	320	59.07	56.51	5	6	2,420	2,723	58.41	38.53
Natural Gas (1000 Mcf)	350,495	442,147	3.70	3.55	262	426	2,952,659	3,884,578	3.77	3.11

Independent Power Producers

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal (1000 tons)	13,609	15,859	34.37	34.96	62	82	121,907	118,190	36.23	35.98
Petroleum Liquids (1000 barrels)	258	420	W	59.98	27	55	2,548	3,102	69.65	56.69
Petroleum Coke (1000 tons)	0	53	--	W	0	2	0	335	--	68.93
Natural Gas (1000 Mcf)	330,729	433,556	2.78	2.70	197	319	2,687,457	3,676,383	3.18	2.50

Commercial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal (1000 tons)	3	7	W	W	1	1	18	30	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)	685	591	W	W	3	3	5,568	6,053	W	W

Industrial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal (1000 tons)	677	753	W	W	19	25	6,560	7,520	W	W
Petroleum Liquids (1000 barrels)	24	27	W	71.25	10	14	199	290	69.08	63.32
Petroleum Coke (1000 tons)	9	8	W	W	1	1	39	104	W	W
Natural Gas (1000 Mcf)	51,642	59,335	W	W	43	51	475,388	533,425	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.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2017 and 2016

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal	1,005,155	1,156,705	2.03	2.12	270	316	9,187,045	9,182,079	2.09	2.13
Petroleum Liquids	6,394	8,154	W	9.40	124	167	67,082	75,768	11.42	9.08
Petroleum Coke	7,915	10,741	W	2.07	6	9	68,933	88,788	W	1.50
Natural Gas	759,247	968,648	3.20	3.07	505	799	6,327,743	8,375,124	3.39	2.74
Fossil Fuels	1,778,711	2,144,248	W	2.55	666	997	15,650,802	17,721,760	W	2.43

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal	736,582	851,137	2.08	2.18	188	208	6,773,612	6,827,277	2.13	2.17
Petroleum Liquids	4,752	5,514	11.75	9.00	87	98	50,894	55,744	11.30	8.87
Petroleum Coke	7,658	9,059	2.12	2.00	5	6	67,855	76,730	2.08	1.37
Natural Gas	362,510	457,872	3.58	3.43	262	426	3,051,601	4,016,639	3.64	3.01
Fossil Fuels	1,111,502	1,323,580	2.61	2.64	375	558	9,943,962	10,976,389	2.64	2.51

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal	254,384	289,363	1.84	1.91	62	82	2,275,045	2,192,870	1.94	1.94
Petroleum Liquids	1,491	2,478	W	10.16	27	55	14,949	18,236	11.87	9.63
Petroleum Coke	0	1,483	--	W	0	2	0	9,229	--	2.50
Natural Gas	342,641	448,820	2.68	2.61	197	319	2,779,355	3,801,874	3.07	2.42
Fossil Fuels	598,516	742,144	W	W	243	382	5,069,349	6,022,209	2.52	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal	72	153	W	W	1	1	411	678	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	707	610	W	W	3	3	5,753	6,227	W	W
Fossil Fuels	778	763	W	W	3	3	6,163	6,905	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	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
Coal	14,117	16,052	W	W	19	25	137,976	161,254	W	W
Petroleum Liquids	151	162	W	11.67	10	14	1,239	1,789	11.07	10.25
Petroleum Coke	257	200	W	W	1	1	1,078	2,830	W	W
Natural Gas	53,389	61,346	W	W	43	51	491,034	550,383	W	W
Fossil Fuels	67,915	77,760	W	W	45	54	631,328	716,256	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), 2007-September 2017
(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															
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
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	13,907	4,076,827	18,812	51,483	54,866
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
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	1,054	313,699	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,104	304,403	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	1,124	292,908	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,210	316,800	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	1,195	367,796	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	1,239	411,901	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	1,262	409,715	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,181	351,498	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,121	312,958	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	1,111	297,075	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	1,152	345,355	1,167	3,500	3,591
Year 2017															
January	115,501	1,206	917	91,410	1,119	73,121	27,858	2,147	27,459	-435	1,087	341,389	1,230	3,287	3,377
February	86,873	955	687	80,510	1,189	64,053	24,543	2,491	28,381	-508	993	290,166	1,397	3,752	3,887
March	89,426	979	709	94,956	1,255	65,093	30,221	4,421	32,825	-521	1,049	320,413	1,986	6,111	6,408
April	81,532	884	404	86,326	1,154	56,743	29,322	4,759	32,116	-439	1,039	293,840	2,211	6,660	6,970
May	92,464	1,001	772	96,782	1,182	61,309	32,181	5,747	29,067	-423	1,076	321,159	2,441	7,786	8,188
June	107,729	1,007	873	116,062	1,208	67,011	30,423	6,230	26,220	-568	1,091	357,286	2,503	8,268	8,733
July	127,984	940	807	144,716	1,259	71,314	25,741	5,482	22,888	-759	1,200	401,572	2,578	7,749	8,061
August	119,880	998	727	139,603	1,320	72,384	21,239	5,379	20,152	-638	1,211	382,255	2,501	7,538	7,879
Sept	98,416	987	678	116,671	1,120	68,073	18,963	5,145	23,676	-606	1,029	334,152	2,239	7,034	7,384
Year to Date															
2015	1,078,917	14,485	8,586	1,011,464	10,199	606,709	189,946	19,684	194,102	-4,082	10,398	3,140,409	11,046	28,042	30,729
2016	934,267	9,835	8,894	1,085,104	9,843	608,119	209,137	27,672	222,810	-4,766	10,523	3,121,439	14,836	39,648	42,509
2017	919,805	8,957	6,574	967,036	10,804	599,102	240,491	41,801	242,784	-4,898	9,775	3,042,231	19,086	58,185	60,887
Rolling 12 Months Ending in September															
2016	1,207,748	12,722	11,185	1,407,121	12,761	798,588	268,271	32,881	298,975	-5,775	14,152	4,058,631	17,930	47,411	50,811
2017	1,224,687	12,130	8,877	1,260,240	13,768	796,677	299,166	50,182	325,553	-6,818	13,159	3,997,620	23,062	70,020	73,245

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 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), 2007-September 2017
(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													
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
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
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
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	20,607	2,057	90	3,589	972	620	271	1,399	27,858	57,463	1,230	3,287	3,377
February	22,088	2,355	136	3,405	866	529	251	1,241	24,543	55,414	1,397	3,752	3,887
March	26,030	4,125	297	3,662	927	552	274	1,380	30,221	67,467	1,986	6,111	6,408
April	25,722	4,449	310	3,373	881	539	243	1,357	29,322	66,197	2,211	6,660	6,970
May	22,606	5,345	402	3,431	907	597	231	1,295	32,181	66,996	2,441	7,786	8,188
June	19,642	5,766	465	3,625	884	582	223	1,265	30,423	62,873	2,503	8,268	8,733
July	15,846	5,171	311	3,922	916	597	239	1,368	25,741	54,111	2,578	7,749	8,061
August	13,147	5,038	341	3,880	925	611	232	1,357	21,239	46,769	2,501	7,538	7,879
Sept	17,291	4,795	349	3,417	878	552	213	1,325	18,963	47,784	2,239	7,034	7,384
Year to Date													
2015	134,558	16,997	2,687	31,671	8,332	5,333	2,324	11,884	189,946	403,732	11,046	28,042	30,729
2016	164,106	24,812	2,860	30,764	8,375	5,433	2,476	11,655	209,137	459,619	14,836	39,648	42,509
2017	182,980	39,099	2,701	32,303	8,156	5,179	2,178	11,988	240,491	525,075	19,086	58,185	60,887
Rolling 12 Months Ending in September													
2016	220,266	29,481	3,400	41,022	11,335	7,311	3,353	15,689	268,271	600,128	17,930	47,411	50,811
2017	245,867	46,957	3,225	42,485	10,999	7,011	3,032	16,159	299,166	674,901	23,062	70,020	73,245

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 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.
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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.A. Net Generation by Energy Source: Electric Utilities, 2007-September 2017
(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												
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
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
Year 2015												
January	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
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	888	743	43,988	14	38,425	25,705	148	3,283	-346	37	198,995
February	64,900	709	540	39,009	19	34,403	22,670	172	3,745	-418	31	165,780
March	66,118	779	536	46,089	17	34,693	28,010	279	4,409	-455	35	180,512
April	59,110	665	261	42,093	19	30,217	27,070	300	4,173	-368	38	163,578
May	68,773	729	654	47,959	6	31,728	29,777	363	3,672	-350	35	183,348
June	81,394	719	698	56,423	12	35,022	28,303	377	3,402	-474	38	205,915
July	96,950	671	673	70,860	21	37,874	23,733	354	2,639	-646	43	233,172
August	90,771	722	540	68,465	NM	38,667	19,462	348	2,265	-531	46	220,760
Sept	71,956	705	523	56,654	NM	35,496	17,449	335	2,855	-522	42	185,492
Year to Date												
2015	794,228	8,336	6,575	468,348	184	318,046	175,065	1,180	25,481	-3,313	419	1,794,549
2016	697,326	6,899	7,200	516,566	104	324,034	193,240	1,520	29,126	-3,979	315	1,772,352
2017	686,082	6,587	5,169	471,539	113	316,527	222,179	2,676	30,442	-4,109	347	1,737,552
Rolling 12 Months Ending in September												
2016	901,484	8,949	8,904	666,035	119	422,667	247,815	1,834	39,638	-4,771	453	2,293,125
2017	911,156	8,757	6,850	609,753	NM	416,893	276,727	3,151	41,982	-5,759	453	2,270,124

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

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2007-September 2017
(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												
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
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	7,094	1,613,308
Year 2015												
January	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
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	553	121,953
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	563	119,824
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	568	117,626
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	625	124,326
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	610	140,902
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	624	162,759
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	631	163,066
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	571	143,169
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	562	128,952
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	573	119,995
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	625	134,920
Year 2017												
January	28,593	264	116	38,890	337	34,695	2,007	1,976	21,487	-90	581	128,856
February	21,279	203	92	33,982	317	29,650	1,740	2,291	22,092	-90	515	112,072
March	22,607	155	93	40,859	355	30,400	2,059	4,091	25,753	-66	520	126,824
April	21,810	179	95	36,529	280	26,526	2,102	4,405	25,386	-71	507	117,750
May	23,035	229	41	40,989	340	29,581	2,242	5,314	22,857	-73	546	125,101
June	25,605	246	100	51,506	331	31,988	1,971	5,775	20,207	-93	550	138,186
July	30,301	227	47	65,183	356	33,440	1,867	5,058	17,432	-114	572	154,370
August	28,375	232	113	62,813	366	33,717	1,651	4,963	15,077	-107	582	147,783
Sept	25,775	243	97	52,380	332	32,577	1,402	4,745	18,326	-84	509	136,302
Year to Date												
2015	275,910	5,535	1,244	472,132	2,765	288,663	13,839	18,154	145,077	-770	5,051	1,227,602
2016	229,632	2,497	1,020	494,065	2,905	284,086	14,745	25,712	170,232	-787	5,333	1,229,440
2017	227,380	1,978	795	423,130	3,014	282,575	17,042	38,619	188,617	-789	4,881	1,187,242
Rolling 12 Months Ending in September												
2016	296,330	3,202	1,376	641,772	3,656	375,921	18,902	30,520	228,012	-1,004	7,120	1,605,809
2017	305,011	2,841	1,176	553,664	3,868	379,784	20,835	46,409	251,939	-1,059	6,642	1,571,110

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2007-September 2017
(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															
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
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
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
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	223	0	86	1,057	406	428	428
February	32	8	1	566	0	0	NM	26	202	0	79	935	460	486	486
March	32	10	1	638	0	0	NM	49	217	0	82	1,053	630	678	678
April	19	6	0	533	0	0	NM	50	206	0	80	920	701	751	751
May	19	7	0	583	0	0	NM	65	225	0	94	1,022	774	839	839
June	23	6	0	645	0	0	NM	71	208	0	83	1,062	781	852	852
July	29	8	0	704	0	0	NM	63	218	0	94	1,137	819	881	881
August	28	9	1	698	0	0	NM	60	217	0	95	1,124	797	857	857
Sept	27	8	1	652	0	0	14	59	201	0	85	1,046	713	772	772
Year to Date															
2015	398	165	6	5,627	0	0	25	333	2,091	0	875	9,520	4,518	4,852	4,852
2016	279	55	4	5,994	0	0	158	418	2,027	0	808	9,743	4,885	5,303	5,303
2017	250	76	6	5,665	0	0	198	465	1,917	0	777	9,355	6,080	6,545	6,545
Rolling 12 Months Ending in September															
2016	390	73	6	7,839	0	0	167	501	2,739	0	1,103	12,818	6,056	6,557	6,557
2017	354	98	8	7,401	0	0	NM	576	2,587	0	1,038	12,318	7,353	7,929	7,929

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
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Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2007-September 2017
(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															
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
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
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
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	7,884	768	0	123	NM	2,465	0	383	12,481	135	NM	NM
February	662	35	55	6,954	853	0	112	NM	2,341	0	367	11,380	146	NM	NM
March	669	35	79	7,371	882	0	127	NM	2,445	0	413	12,025	209	NM	NM
April	593	34	48	7,171	854	0	124	NM	2,352	0	413	11,593	226	NM	NM
May	637	35	76	7,251	835	0	135	4	2,314	0	400	11,687	251	255	255
June	706	35	75	7,488	864	0	124	8	2,403	0	419	12,123	254	262	262
July	705	34	87	7,969	883	0	121	7	2,599	0	490	12,893	264	272	272
August	706	34	72	7,627	951	0	109	7	2,592	0	489	12,587	258	265	265
Sept	658	32	56	6,986	787	0	98	6	2,295	0	394	11,312	235	241	241
Year to Date															
2015	8,381	449	760	65,357	7,250	0	1,017	17	21,453	0	4,053	108,737	1,133	1,150	1,150
2016	7,029	384	670	68,478	6,835	0	995	22	21,425	0	4,067	109,904	1,619	1,641	1,641
2017	6,094	315	605	66,702	7,677	0	1,072	41	21,807	0	3,769	108,081	1,976	2,017	2,017
Rolling 12 Months Ending in September															
2016	9,544	498	899	91,476	8,986	0	1,387	26	28,586	0	5,476	146,879	1,938	1,964	1,964
2017	8,167	434	844	89,421	9,738	0	1,346	NM	29,045	0	5,026	144,067	2,417	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.
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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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-September 2017 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
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	690
February	791
March	1,148
April	1,285
May	1,416
June	1,468
July	1,495
August	1,446
Sept	1,291
Year to Date	
2015	5,395
2016	8,332
2017	11,030
Rolling 12 Months Ending in September	
2016	9,936
2017	13,293

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

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	8,448	8,849	-4.5%	137	112	7,974	8,432	110	111	227	194
Connecticut	2,778	3,102	-10.5%	6	5	2,694	3,023	34	33	43	41
Maine	848	838	1.2%	0	0	671	691	17	18	160	129
Massachusetts	2,543	2,554	-0.4%	NM	28	2,444	2,457	47	48	21	21
New Hampshire	1,609	1,653	-2.7%	38	37	1,562	1,606	6	6	3	4
Rhode Island	524	625	-16.1%	0	1	519	618	5	6	0	0
Vermont	146	78	88.2%	61	40	85	37	0	0	0	0
Middle Atlantic	33,583	36,756	-8.6%	2,782	2,744	30,240	33,456	193	175	368	382
New Jersey	6,330	6,652	-4.8%	15	11	6,196	6,525	56	55	63	61
New York	10,958	11,611	-5.6%	2,764	2,730	8,024	8,702	104	104	66	75
Pennsylvania	16,295	18,493	-11.9%	3	2	16,021	18,230	32	16	239	246
East North Central	46,283	49,232	-6.0%	18,721	20,623	26,544	27,671	160	168	858	771
Illinois	15,041	15,918	-5.5%	495	460	14,268	15,189	32	29	246	239
Indiana	7,434	8,095	-8.2%	6,302	7,050	768	752	23	27	342	265
Michigan	8,596	9,138	-5.9%	5,993	6,495	2,426	2,465	68	76	109	103
Ohio	9,795	10,628	-7.8%	1,676	2,349	8,042	8,207	28	25	49	47
Wisconsin	5,417	5,454	-0.7%	4,255	4,269	1,040	1,057	9	11	112	117
West North Central	27,331	26,393	3.6%	22,663	22,045	4,278	3,957	50	54	340	338
Iowa	4,408	4,526	-2.6%	3,325	3,366	894	987	20	18	168	155
Kansas	4,372	3,530	23.9%	3,014	2,434	1,357	1,090	0	0	NM	7
Minnesota	4,893	4,759	2.8%	3,939	3,841	819	780	15	14	120	123
Missouri	6,660	6,530	2.0%	6,388	6,256	256	252	13	20	3	3
Nebraska	2,936	3,029	-3.1%	2,544	2,714	356	279	1	2	35	34
North Dakota	3,343	3,087	8.3%	2,870	2,728	460	344	0	0	13	15
South Dakota	720	932	-22.7%	583	706	137	225	NM	0	0	0
South Atlantic	66,931	70,802	-5.5%	54,712	58,437	10,608	10,743	95	109	1,516	1,514
Delaware	618	805	-23.2%	5	7	497	685	NM	0	116	112
District of Columbia	5	6	-14.8%	0	0	2	4	3	2	0	0
Florida	20,965	22,070	-5.0%	19,274	20,269	1,314	1,351	5	7	372	444
Georgia	10,907	11,480	-5.0%	9,153	10,020	1,362	1,079	NM	1	391	380
Maryland	3,065	3,481	-11.9%	NM	1	2,996	3,410	45	47	24	24
North Carolina	10,609	11,763	-9.8%	9,266	10,630	1,155	960	17	19	172	154
South Carolina	7,789	7,566	3.0%	7,330	7,049	293	367	0	0	166	150
Virginia	7,205	7,886	-8.6%	5,252	6,167	1,742	1,482	24	33	186	204
West Virginia	5,767	5,746	0.4%	4,430	4,294	1,248	1,406	0	0	89	46
East South Central	28,067	32,430	-13.5%	23,775	27,068	3,570	4,626	14	19	707	717
Alabama	11,492	12,968	-11.4%	8,042	8,711	3,118	3,911	0	0	333	346
Kentucky	5,153	6,768	-23.9%	5,033	6,662	76	59	0	0	45	48
Mississippi	4,377	5,641	-22.4%	3,873	4,855	354	640	0	0	150	146
Tennessee	7,045	7,053	-0.1%	6,827	6,840	23	17	14	19	181	178
West South Central	60,545	63,729	-5.0%	20,721	22,984	34,096	34,193	70	85	5,658	6,467
Arkansas	5,578	5,539	0.7%	4,239	4,362	1,206	1,056	1	3	132	118
Louisiana	8,548	9,155	-6.6%	5,186	5,820	1,009	705	NM	15	2,350	2,616
Oklahoma	6,916	7,161	-3.4%	3,631	4,217	3,213	2,884	0	0	72	60
Texas	39,503	41,874	-5.7%	7,666	8,585	28,667	29,548	66	68	3,104	3,674
Mountain	30,980	30,950	0.1%	23,874	23,230	6,780	7,377	52	56	274	287
Arizona	10,138	10,378	-2.3%	8,275	8,006	1,848	2,354	15	18	0	0
Colorado	4,378	4,314	1.5%	3,441	3,347	927	958	4	4	6	6
Idaho	1,075	1,058	1.6%	661	659	382	356	4	5	28	38
Montana	2,184	2,275	-4.0%	670	578	1,511	1,695	0	0	3	2
Nevada	3,402	3,353	1.5%	2,425	2,438	936	880	12	11	29	23
New Mexico	2,585	2,464	4.9%	1,929	1,816	646	638	10	10	0	0
Utah	3,226	3,322	-2.9%	2,801	2,898	322	301	7	7	96	117
Wyoming	3,993	3,785	5.5%	3,673	3,488	207	196	0	0	112	101
Pacific Contiguous	30,643	30,964	-1.0%	17,232	16,951	11,837	12,342	245	271	1,329	1,400
California	18,411	17,988	2.4%	7,770	7,415	9,244	9,090	237	259	1,160	1,224
Oregon	4,360	4,928	-11.5%	3,138	3,414	1,166	1,460	7	8	49	46
Washington	7,872	8,048	-2.2%	6,324	6,122	1,427	1,792	NM	4	120	130
Pacific Noncontiguous	1,340	1,393	-3.8%	877	912	374	373	57	68	33	40
Alaska	479	524	-8.5%	426	470	19	14	23	32	10	8
Hawaii	861	869	-0.9%	450	443	355	359	33	35	23	33
U.S. Total	334,152	351,498	-4.9%	185,492	195,105	136,302	143,169	1,046	1,114	11,312	12,111

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	76,838	82,995	-7.4%	1,739	1,931	72,023	78,081	942	983	2,134	2,000
Connecticut	25,564	27,111	-5.7%	61	55	24,840	26,364	281	311	382	382
Maine	8,315	9,014	-7.8%	0	0	6,629	7,446	158	156	1,528	1,413
Massachusetts	24,342	25,534	-4.7%	333	397	23,402	24,544	406	412	201	180
New Hampshire	13,001	14,493	-10.3%	647	767	12,281	13,643	50	57	24	25
Rhode Island	4,039	5,275	-23.4%	3	7	3,990	5,223	46	45	0	0
Vermont	1,578	1,568	0.7%	695	705	880	861	3	3	0	0
Middle Atlantic	302,349	325,488	-7.1%	26,124	27,405	271,097	293,010	1,701	1,639	3,427	3,434
New Jersey	56,886	59,423	-4.3%	120	118	55,700	58,286	513	496	553	524
New York	96,061	103,120	-6.8%	25,920	27,224	68,580	74,234	896	923	665	739
Pennsylvania	149,403	162,944	-8.3%	84	63	146,816	160,490	293	220	2,209	2,171
East North Central	432,996	445,797	-2.9%	185,334	190,331	237,824	246,833	1,394	1,470	8,444	7,162
Illinois	135,419	141,708	-4.4%	4,279	4,262	128,687	135,163	275	271	2,178	2,013
Indiana	74,015	76,840	-3.7%	63,077	65,140	7,131	9,051	199	215	3,608	2,435
Michigan	85,520	87,218	-1.9%	62,299	61,325	21,602	24,259	612	679	1,006	955
Ohio	89,928	89,824	0.1%	17,917	20,118	71,296	68,981	215	176	501	549
Wisconsin	48,114	50,207	-4.2%	37,762	39,487	9,108	9,378	94	131	1,151	1,211
West North Central	254,280	246,943	3.0%	209,717	208,123	41,040	35,358	453	504	3,069	2,958
Iowa	42,358	40,445	4.7%	31,595	29,818	9,110	8,971	166	181	1,487	1,476
Kansas	38,344	36,530	5.0%	26,096	26,783	12,216	9,705	0	0	32	42
Minnesota	43,726	44,358	-1.4%	34,393	36,183	8,054	7,006	140	158	1,139	1,011
Missouri	65,198	61,152	6.6%	62,659	58,574	2,372	2,392	132	150	35	35
Nebraska	26,950	27,957	-3.6%	23,209	25,211	3,460	2,460	15	16	266	270
North Dakota	29,759	27,742	7.3%	25,299	24,721	4,349	2,896	0	0	110	125
South Dakota	7,945	8,759	-9.3%	6,467	6,832	1,478	1,926	NM	0	0	0
South Atlantic	611,060	630,607	-3.1%	507,959	524,295	87,552	91,279	858	1,029	14,692	14,005
Delaware	6,051	7,004	-13.6%	17	63	4,903	5,963	5	4	1,125	974
District of Columbia	52	58	-10.8%	0	0	33	40	19	19	0	0
Florida	183,047	184,721	-0.9%	168,351	166,957	10,702	13,637	56	65	3,938	4,062
Georgia	98,482	103,451	-4.8%	83,450	89,336	11,183	10,578	5	6	3,844	3,531
Maryland	25,476	29,222	-12.8%	9	6	24,882	28,632	372	388	213	196
North Carolina	99,883	101,905	-2.0%	88,709	92,481	9,572	7,821	157	206	1,444	1,397
South Carolina	70,941	74,282	-4.5%	67,187	70,136	2,216	2,786	1	2	1,537	1,359
Virginia	71,301	72,220	-1.3%	56,900	59,563	12,380	10,481	242	339	1,779	1,838
West Virginia	55,828	57,742	-3.3%	43,336	45,753	11,681	11,342	0	0	811	648
East South Central	266,469	281,873	-5.5%	228,631	238,037	30,979	36,950	140	147	6,719	6,740
Alabama	105,685	109,574	-3.5%	76,774	75,389	25,688	30,969	0	0	3,224	3,216
Kentucky	55,416	61,458	-9.8%	54,689	60,494	283	492	0	0	444	472
Mississippi	46,577	50,995	-8.7%	40,334	44,200	4,802	5,339	3	0	1,438	1,456
Tennessee	58,792	59,847	-1.8%	56,834	57,954	206	150	137	147	1,614	1,596
West South Central	520,829	537,789	-3.2%	170,490	188,440	294,352	289,854	675	759	55,312	58,736
Arkansas	46,254	47,233	-2.1%	34,045	34,152	10,941	11,872	5	34	1,262	1,175
Louisiana	73,117	83,194	-12.1%	42,336	50,646	8,206	8,092	103	133	22,472	24,322
Oklahoma	58,088	59,187	-1.9%	30,324	34,325	27,172	24,197	0	0	592	665
Texas	343,370	348,174	-1.4%	63,784	69,317	248,033	245,693	567	592	30,986	32,573
Mountain	272,539	275,559	-1.1%	212,929	215,092	56,837	57,362	441	462	2,332	2,642
Arizona	80,999	84,697	-4.4%	68,886	69,327	11,987	15,233	126	137	0	0
Colorado	41,228	41,093	0.3%	31,857	32,084	9,284	8,932	32	21	55	56
Idaho	12,331	12,841	-4.0%	8,077	8,527	3,808	3,827	38	41	408	446
Montana	21,079	19,938	5.7%	8,987	7,752	12,071	12,164	0	0	21	22
Nevada	29,070	30,856	-5.8%	20,660	23,151	8,091	7,389	97	99	222	217
New Mexico	25,727	23,516	9.4%	19,224	17,638	6,417	5,785	85	93	1	1
Utah	27,197	28,116	-3.3%	23,545	25,227	2,964	1,939	62	71	625	879
Wyoming	34,908	34,499	1.2%	31,693	31,385	2,216	2,093	0	0	999	1,021
Pacific Contiguous	293,016	282,331	3.8%	186,758	170,639	92,410	97,589	2,201	2,220	11,647	11,883
California	159,365	150,754	5.7%	72,518	61,952	74,629	76,324	2,124	2,139	10,093	10,338
Oregon	44,515	45,362	-1.9%	34,612	33,645	9,401	11,232	54	52	448	432
Washington	89,137	86,214	3.4%	79,628	75,041	8,380	10,033	23	28	1,106	1,113
Pacific Noncontiguous	11,854	12,059	-1.7%	7,870	8,059	3,130	3,126	549	529	305	345
Alaska	4,456	4,616	-3.5%	3,927	4,120	174	187	266	230	88	79
Hawaii	7,398	7,443	-0.6%	3,943	3,939	2,955	2,939	283	300	217	266
U.S. Total	3,042,231	3,121,439	-2.5%	1,737,552	1,772,352	1,187,242	1,229,440	9,355	9,743	108,081	109,904

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	10	132	-92.3%	2	6	7	126	0	0	NM	1
Connecticut	3	21	-87.3%	0	0	3	21	0	0	0	0
Maine	5	6	-8.5%	0	0	4	5	0	0	NM	1
Massachusetts	0	99	-100.0%	0	0	0	99	0	0	0	0
New Hampshire	2	6	-62.3%	2	6	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	3,156	4,918	-35.8%	0	0	3,118	4,862	0	0	37	56
New Jersey	100	109	-8.4%	0	0	100	109	0	0	0	0
New York	63	143	-56.0%	0	0	45	119	0	0	18	23
Pennsylvania	2,993	4,666	-35.8%	0	0	2,973	4,633	0	0	20	32
East North Central	21,406	24,888	-14.0%	12,345	14,481	8,879	10,221	7	6	175	180
Illinois	4,846	5,586	-13.2%	324	262	4,379	5,187	NM	0	141	137
Indiana	5,183	6,082	-14.8%	4,964	5,861	214	214	5	6	0	1
Michigan	3,074	3,390	-9.3%	3,053	3,342	18	40	0	0	NM	7
Ohio	5,512	6,646	-17.1%	1,243	1,865	4,268	4,779	0	0	NM	2
Wisconsin	2,791	3,184	-12.4%	2,761	3,151	0	0	0	0	30	33
West North Central	15,314	15,582	-1.7%	15,104	15,354	0	0	9	12	201	216
Iowa	2,152	2,263	-4.9%	2,024	2,122	0	0	7	6	121	136
Kansas	1,788	2,093	-14.6%	1,788	2,093	0	0	0	0	0	0
Minnesota	1,881	2,042	-7.9%	1,844	2,006	0	0	0	0	37	36
Missouri	5,113	4,976	2.8%	5,112	4,970	0	0	1	6	0	0
Nebraska	1,842	1,900	-3.0%	1,808	1,866	0	0	0	0	35	34
North Dakota	2,362	2,167	9.0%	2,354	2,157	0	0	0	0	8	11
South Dakota	176	141	24.6%	176	141	0	0	0	0	0	0
South Atlantic	16,354	21,872	-25.2%	14,341	18,893	1,956	2,906	2	2	55	71
Delaware	37	22	65.7%	0	0	37	22	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,796	4,010	-30.3%	2,780	3,911	5	83	0	0	11	15
Georgia	2,975	3,707	-19.8%	2,964	3,696	0	0	0	0	NM	11
Maryland	915	1,492	-38.7%	0	0	910	1,486	0	0	5	6
North Carolina	2,549	4,073	-37.4%	2,528	4,043	7	13	2	2	12	16
South Carolina	1,367	1,605	-14.8%	1,366	1,601	0	0	0	0	1	4
Virginia	425	1,491	-71.5%	372	1,395	39	76	0	1	14	19
West Virginia	5,290	5,473	-3.4%	4,331	4,246	958	1,226	0	0	0	0
East South Central	8,798	12,765	-31.1%	8,697	12,391	43	299	0	0	59	75
Alabama	2,166	3,438	-37.0%	2,162	3,434	0	0	0	0	NM	4
Kentucky	4,035	5,744	-29.8%	4,035	5,744	0	0	0	0	0	0
Mississippi	299	519	-42.4%	256	220	43	299	0	0	0	0
Tennessee	2,299	3,064	-25.0%	2,244	2,993	0	0	0	0	55	71
West South Central	17,920	18,599	-3.6%	8,594	9,418	9,302	9,146	0	0	24	34
Arkansas	2,448	2,878	-15.0%	2,032	2,438	414	436	0	0	2	3
Louisiana	1,148	970	18.3%	606	651	542	319	0	0	0	0
Oklahoma	1,971	2,004	-1.7%	1,771	1,770	178	204	0	0	22	30
Texas	12,354	12,746	-3.1%	4,185	4,559	8,168	8,187	0	0	0	0
Mountain	14,048	14,050	0.0%	12,500	12,303	1,469	1,646	0	0	79	101
Arizona	2,897	2,992	-3.2%	2,897	2,992	0	0	0	0	0	0
Colorado	2,382	2,418	-1.5%	2,381	2,418	0	0	0	0	0	1
Idaho	NM	2	NM	0	0	0	0	0	0	NM	2
Montana	1,315	1,479	-11.1%	17	11	1,298	1,468	0	0	1	1
Nevada	206	241	-14.5%	132	153	74	87	0	0	0	0
New Mexico	1,317	1,238	6.4%	1,317	1,238	0	0	0	0	0	0
Utah	2,368	2,310	2.5%	2,285	2,214	37	30	0	0	46	66
Wyoming	3,562	3,369	5.7%	3,472	3,276	60	61	0	0	30	32
Pacific Contiguous	1,236	1,172	5.5%	348	355	861	788	0	0	27	28
California	26	27	-6.2%	0	0	0	0	0	0	26	27
Oregon	348	355	-2.0%	348	355	0	0	0	0	0	0
Washington	862	789	9.3%	0	0	861	788	0	0	1	1
Pacific Noncontiguous	174	160	9.0%	NM	21	141	130	9	9	0	0
Alaska	NM	38	NM	NM	21	15	8	9	9	0	0
Hawaii	126	122	3.6%	0	0	126	122	0	0	0	0
U.S. Total	98,416	114,138	-13.8%	71,956	83,223	25,775	30,124	27	29	658	762

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	1,454	1,856	-21.7%	166	265	1,273	1,585	0	0	NM	7
Connecticut	96	92	4.5%	0	0	96	92	0	0	0	0
Maine	55	50	10.0%	0	0	41	43	0	0	NM	7
Massachusetts	1,136	1,450	-21.6%	0	0	1,136	1,450	0	0	0	0
New Hampshire	166	265	-37.1%	166	265	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	37,089	44,612	-16.9%	0	0	36,680	44,054	0	0	410	558
New Jersey	911	1,015	-10.3%	0	0	911	1,015	0	0	0	0
New York	617	1,579	-60.9%	0	0	422	1,320	0	0	195	259
Pennsylvania	35,562	42,019	-15.4%	0	0	35,347	41,719	0	0	215	300
East North Central	210,138	209,141	0.5%	126,612	125,228	81,811	82,227	48	66	1,667	1,621
Illinois	43,532	45,514	-4.4%	3,154	2,753	39,049	41,635	25	13	1,304	1,113
Indiana	53,826	55,050	-2.2%	51,920	52,177	1,882	2,830	23	38	0	5
Michigan	32,969	31,116	6.0%	32,603	30,709	330	328	0	15	36	64
Ohio	53,394	52,237	2.2%	12,834	14,692	40,550	37,434	0	0	10	110
Wisconsin	26,417	25,226	4.7%	26,100	24,896	0	0	0	0	317	329
West North Central	141,281	138,084	2.3%	139,293	136,115	1	0	83	96	1,905	1,873
Iowa	20,270	19,166	5.8%	19,036	17,832	0	0	64	67	1,170	1,267
Kansas	14,889	17,420	-14.5%	14,889	17,420	0	0	0	0	0	0
Minnesota	16,926	16,874	0.3%	16,528	16,612	0	0	1	2	396	260
Missouri	51,473	47,126	9.2%	51,455	47,099	1	0	18	27	0	0
Nebraska	16,292	16,089	1.3%	16,026	15,820	0	0	0	0	266	269
North Dakota	19,871	19,761	0.6%	19,798	19,685	0	0	0	0	73	77
South Dakota	1,561	1,647	-5.2%	1,561	1,647	0	0	0	0	0	0
South Atlantic	164,817	185,320	-11.1%	147,504	162,186	16,705	22,182	38	39	569	913
Delaware	259	471	-45.1%	0	0	259	471	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	29,353	29,602	-0.8%	29,165	28,792	80	667	0	0	108	142
Georgia	25,581	29,842	-14.3%	25,463	29,677	0	0	0	0	118	164
Maryland	6,397	11,003	-41.9%	0	0	6,342	10,948	0	0	55	55
North Carolina	27,769	29,727	-6.6%	27,530	29,407	81	133	30	33	129	152
South Carolina	14,602	16,940	-13.8%	14,585	16,855	0	0	0	0	17	85
Virginia	8,768	13,179	-33.5%	8,266	12,508	351	462	8	6	143	202
West Virginia	52,088	54,558	-4.5%	42,495	44,946	9,592	9,499	0	0	0	112
East South Central	93,276	105,022	-11.2%	90,961	102,016	1,750	2,237	0	0	565	769
Alabama	24,177	25,618	-5.6%	24,144	25,552	0	0	0	0	33	66
Kentucky	44,150	50,877	-13.2%	44,150	50,877	0	0	0	0	0	0
Mississippi	3,564	4,137	-13.8%	1,815	1,900	1,750	2,237	0	0	0	0
Tennessee	21,385	24,390	-12.3%	20,852	23,687	0	0	0	0	533	703
West South Central	144,708	126,999	13.9%	70,984	64,893	73,468	61,792	0	0	255	315
Arkansas	19,895	16,993	17.1%	17,599	13,692	2,263	3,263	0	0	32	38
Louisiana	9,673	9,361	3.3%	5,609	6,367	4,064	2,994	0	0	0	0
Oklahoma	13,441	13,183	2.0%	11,993	11,508	1,225	1,398	0	0	223	277
Texas	101,699	87,462	16.3%	35,784	33,326	65,915	54,136	0	0	0	0
Mountain	120,834	117,263	3.0%	108,862	105,018	11,497	11,537	0	0	475	707
Arizona	23,494	22,221	5.7%	23,494	22,221	0	0	0	0	0	0
Colorado	22,145	22,109	0.2%	22,138	22,082	0	21	0	0	7	6
Idaho	20	19	3.0%	0	0	0	0	0	0	20	19
Montana	10,135	10,214	-0.8%	210	190	9,922	10,020	0	0	3	4
Nevada	1,646	1,894	-13.1%	911	1,220	734	674	0	0	0	0
New Mexico	14,318	12,485	14.7%	14,318	12,485	0	0	0	0	0	0
Utah	18,970	18,648	1.7%	18,482	17,961	309	298	0	0	179	390
Wyoming	30,106	29,672	1.5%	29,307	28,860	532	524	0	0	267	289
Pacific Contiguous	4,780	4,400	8.6%	1,506	1,377	3,042	2,761	0	0	232	262
California	212	239	-11.0%	0	0	0	0	0	0	212	239
Oregon	1,506	1,377	9.4%	1,506	1,377	0	0	0	0	0	0
Washington	3,062	2,784	10.0%	0	0	3,042	2,761	0	0	20	23
Pacific Noncontiguous	1,429	1,570	-9.0%	194	230	1,154	1,258	81	79	0	3
Alaska	408	452	-9.7%	194	230	133	143	81	79	0	0
Hawaii	1,021	1,118	-8.7%	0	0	1,021	1,115	0	0	0	3
U.S. Total	919,805	934,267	-1.5%	686,082	697,326	227,380	229,632	250	279	6,094	7,029

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	28	45	-38.3%	3	3	22	40	3	2	NM	1
Connecticut	6	4	36.0%	1	0	5	4	NM	0	0	0
Maine	10	1	826.8%	0	0	9	0	0	0	NM	1
Massachusetts	10	37	-72.1%	NM	0	7	36	2	1	0	0
New Hampshire	2	2	-25.8%	1	1	NM	0	0	1	0	0
Rhode Island	NM	1	NM	0	1	NM	0	0	0	0	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	48	43	9.4%	14	13	30	28	NM	0	2	3
New Jersey	2	1	95.7%	NM	0	NM	1	0	0	0	0
New York	28	27	5.8%	14	13	11	11	NM	0	2	2
Pennsylvania	18	16	10.7%	0	0	17	15	0	0	NM	0
East North Central	45	34	33.5%	31	21	12	11	1	0	1	2
Illinois	4	3	14.8%	1	0	3	3	NM	0	0	0
Indiana	8	7	20.7%	8	6	0	0	0	0	1	1
Michigan	14	8	75.3%	13	7	0	0	0	0	0	0
Ohio	16	12	31.4%	6	4	10	8	0	0	0	0
Wisconsin	3	4	-8.5%	3	3	0	0	0	0	NM	0
West North Central	38	27	40.7%	37	27	1	0	0	0	0	0
Iowa	21	19	14.0%	21	18	NM	0	0	0	0	0
Kansas	6	2	288.1%	6	2	0	0	0	0	0	0
Minnesota	4	1	239.1%	2	1	1	0	0	0	0	0
Missouri	5	5	-1.7%	5	5	0	0	0	0	0	0
Nebraska	NM	-2	NM	NM	-2	0	0	0	0	0	0
North Dakota	1	2	-33.7%	1	2	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	0	0	0
South Atlantic	120	98	22.1%	86	55	27	37	3	0	NM	6
Delaware	3	1	131.7%	0	0	2	1	0	0	0	0
District of Columbia	0	0	-100.0%	0	0	0	0	0	0	0	0
Florida	34	21	59.9%	32	19	0	0	0	0	NM	2
Georgia	10	4	175.0%	7	2	NM	1	0	0	NM	1
Maryland	17	9	90.5%	NM	0	17	9	0	0	0	0
North Carolina	15	12	21.9%	14	12	NM	1	0	0	NM	0
South Carolina	8	6	33.3%	8	4	0	0	0	0	0	2
Virginia	27	34	-19.3%	19	8	5	25	2	0	NM	0
West Virginia	6	11	-45.2%	6	11	0	0	0	0	0	0
East South Central	19	21	-7.0%	18	19	NM	0	0	0	NM	2
Alabama	NM	2	NM	1	1	NM	0	0	0	NM	1
Kentucky	8	6	29.6%	8	6	0	0	0	0	0	0
Mississippi	NM	2	NM	NM	1	0	0	0	0	0	1
Tennessee	8	11	-21.1%	8	11	0	0	0	0	0	0
West South Central	8	13	-35.6%	6	9	2	4	0	0	0	1
Arkansas	2	2	-12.3%	1	0	0	1	0	0	0	1
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	1	4	-86.5%	0	4	0	0	0	0	0	0
Texas	5	6	-16.5%	3	4	2	3	0	0	0	0
Mountain	14	17	-18.7%	13	16	1	1	0	0	0	1
Arizona	3	4	-26.0%	3	4	0	0	0	0	0	0
Colorado	NM	0	NM	NM	0	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	1	0	254.1%	NM	0	1	0	0	0	0	0
Nevada	1	1	24.8%	1	1	0	0	0	0	0	0
New Mexico	3	4	-24.4%	3	4	0	0	0	0	0	0
Utah	3	3	-16.0%	3	3	0	0	0	0	0	0
Wyoming	2	4	-44.3%	2	4	0	0	0	0	0	1
Pacific Contiguous	9	12	-29.4%	6	4	NM	2	0	0	2	7
California	5	11	-56.4%	4	3	0	1	0	0	1	6
Oregon	3	0	737.5%	3	0	0	0	0	0	0	0
Washington	NM	1	NM	NM	0	NM	1	0	0	NM	0
Pacific Noncontiguous	658	634	3.7%	490	478	146	136	0	0	21	20
Alaska	71	59	19.8%	66	56	0	0	NM	0	4	3
Hawaii	587	575	2.0%	424	422	146	136	0	0	17	17
U.S. Total	987	946	4.4%	705	644	243	258	8	4	32	41

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

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	220	374	-41.0%	30	44	152	292	31	30	7	8
Connecticut	33	75	-56.1%	5	5	27	66	1	2	0	2
Maine	37	101	-62.9%	0	0	30	93	1	2	6	6
Massachusetts	114	150	-24.0%	6	13	90	126	17	11	1	0
New Hampshire	24	32	-25.4%	14	18	NM	1	9	14	0	0
Rhode Island	10	14	-30.1%	3	7	NM	6	2	1	0	0
Vermont	3	2	23.3%	2	2	0	0	0	0	0	0
Middle Atlantic	453	833	-45.6%	126	290	285	501	10	10	31	32
New Jersey	29	60	-51.8%	0	1	28	59	0	1	NM	0
New York	257	561	-54.1%	125	288	97	237	7	8	28	28
Pennsylvania	167	212	-21.4%	0	1	160	206	3	1	4	4
East North Central	381	417	-8.8%	243	255	123	145	4	3	12	14
Illinois	39	55	-29.9%	7	7	31	47	NM	1	0	0
Indiana	85	89	-4.4%	76	80	0	0	0	0	8	8
Michigan	87	98	-10.5%	83	95	0	0	2	2	2	1
Ohio	145	151	-4.3%	51	53	92	96	0	0	2	3
Wisconsin	25	25	2.5%	25	21	0	3	0	0	NM	1
West North Central	339	269	26.1%	333	263	4	3	1	1	1	1
Iowa	190	170	12.0%	190	169	0	0	0	0	0	0
Kansas	40	16	150.4%	40	16	0	0	0	0	0	0
Minnesota	31	21	42.7%	25	17	NM	2	1	1	1	1
Missouri	40	54	-26.2%	40	54	0	0	0	0	0	0
Nebraska	6	-15	-138.7%	6	-15	0	0	0	0	0	0
North Dakota	28	21	38.0%	28	20	0	0	0	0	0	0
South Dakota	4	2	130.5%	4	2	0	0	NM	0	0	0
South Atlantic	1,334	1,785	-25.3%	1,066	1,313	197	401	24	5	47	67
Delaware	24	60	-59.7%	0	7	24	53	0	0	0	0
District of Columbia	0	1	-100.0%	0	0	0	0	0	1	0	0
Florida	521	597	-12.8%	504	572	2	5	0	0	14	19
Georgia	79	97	-18.3%	51	50	NM	21	2	1	16	24
Maryland	90	149	-39.9%	1	-1	87	148	1	1	1	2
North Carolina	150	199	-24.7%	135	162	8	31	0	0	6	6
South Carolina	68	92	-25.9%	61	79	1	2	0	0	6	12
Virginia	312	501	-37.8%	225	360	63	136	21	1	3	3
West Virginia	90	89	1.8%	89	84	1	4	0	0	0	0
East South Central	198	212	-6.6%	184	192	2	5	0	0	11	15
Alabama	30	37	-19.3%	19	20	2	5	0	0	9	12
Kentucky	74	66	11.8%	74	66	0	0	0	0	0	0
Mississippi	8	13	-38.9%	7	12	0	0	0	0	2	2
Tennessee	86	95	-9.8%	85	93	0	0	0	0	1	2
West South Central	110	118	-6.9%	57	76	50	37	0	1	3	4
Arkansas	35	28	24.6%	12	18	22	8	0	0	1	2
Louisiana	6	12	-52.6%	6	10	0	2	0	0	0	0
Oklahoma	10	15	-30.9%	9	14	0	0	0	0	1	1
Texas	59	64	-6.9%	29	34	28	27	0	1	1	1
Mountain	164	177	-7.4%	149	150	15	17	0	0	0	11
Arizona	41	39	3.1%	41	39	0	0	0	0	0	0
Colorado	6	4	33.3%	6	4	0	0	0	0	0	0
Idaho	0	0	-90.0%	0	0	0	0	0	0	0	0
Montana	11	14	-18.5%	NM	0	11	14	0	0	0	0
Nevada	8	10	-20.6%	5	8	3	2	0	0	0	0
New Mexico	34	42	-18.0%	34	42	0	0	0	0	0	0
Utah	30	23	30.5%	29	22	1	1	0	0	0	0
Wyoming	34	45	-23.9%	34	34	0	0	0	0	0	11
Pacific Contiguous	61	98	-37.2%	36	30	11	12	1	0	14	55
California	36	78	-53.8%	26	25	3	4	0	0	7	48
Oregon	8	3	159.8%	8	3	0	0	0	0	0	0
Washington	17	16	4.6%	2	2	8	8	0	0	7	6
Pacific Noncontiguous	5,696	5,552	2.6%	4,363	4,286	1,139	1,083	5	5	188	178
Alaska	680	539	26.2%	638	505	0	0	4	2	38	31
Hawaii	5,017	5,014	0.1%	3,726	3,781	1,139	1,083	2	3	150	147
U.S. Total	8,957	9,835	-8.9%	6,587	6,899	1,978	2,497	76	55	315	384

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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, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	15	NM	0	0	0	0	0	0	NM	15
New Jersey	7	6	13.1%	0	0	0	0	0	0	7	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	9	NM	0	0	0	0	0	0	NM	9
East North Central	141	140	0.2%	68	51	58	77	0	0	15	12
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	72	51	41.6%	57	41	0	0	0	0	15	10
Ohio	58	78	-25.2%	0	0	58	77	0	0	0	1
Wisconsin	11	12	-10.6%	11	11	0	0	0	0	0	1
West North Central	1	0	--	0	0	0	0	1	0	0	0
Iowa	1	0	--	0	0	0	0	1	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	129	222	-42.0%	116	215	0	0	0	0	NM	6
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	116	215	-46.0%	116	215	0	0	0	0	0	0
Georgia	NM	6	NM	0	0	0	0	0	0	NM	6
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	89	-100.0%	0	89	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	89	-100.0%	0	89	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	354	470	-24.7%	339	451	0	0	0	0	15	19
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	347	460	-24.5%	339	451	0	0	0	0	8	9
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	10	NM	0	0	0	0	0	0	NM	10
Mountain	39	36	8.9%	0	0	39	36	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	39	36	8.9%	0	0	39	36	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	7	-100.0%	0	0	0	0	0	0	0	7
California	0	7	-100.0%	0	0	0	0	0	0	0	7
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	678	980	-30.9%	523	807	97	113	1	0	56	60

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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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	115	109	5.4%	0	0	0	1	0	0	115	108
New Jersey	56	46	21.9%	0	0	0	0	0	0	56	46
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	59	63	-6.6%	0	0	0	1	0	0	59	62
East North Central	1,279	1,843	-30.6%	704	1,001	466	699	0	0	109	143
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	497	-100.0%	0	497	0	0	0	0	0	0
Michigan	752	552	36.2%	643	446	0	3	0	0	109	103
Ohio	466	704	-33.7%	0	0	466	696	0	0	0	8
Wisconsin	61	91	-32.5%	61	59	0	0	0	0	0	32
West North Central	29	23	22.3%	0	0	0	0	6	4	23	19
Iowa	29	23	22.3%	0	0	0	0	6	4	23	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	805	1,903	-57.7%	690	1,828	0	0	0	0	115	74
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	690	1,828	-62.2%	690	1,828	0	0	0	0	0	0
Georgia	115	74	54.7%	0	0	0	0	0	0	115	74
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	427	888	-51.9%	427	888	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	427	888	-51.9%	427	888	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,591	3,746	-4.1%	3,347	3,482	0	0	0	0	244	264
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,511	3,657	-4.0%	3,347	3,482	0	0	0	0	164	174
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	80	89	-10.4%	0	0	0	0	0	0	80	89
Mountain	328	320	2.5%	0	0	328	320	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	328	320	2.5%	0	0	328	320	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	61	-100.0%	0	0	0	0	0	0	0	61
California	0	61	-100.0%	0	0	0	0	0	0	0	61
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,574	8,894	-26.1%	5,169	7,200	795	1,020	6	4	605	670

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	4,051	4,769	-15.1%	NM	28	3,847	4,564	84	86	98	92
Connecticut	1,153	1,446	-20.2%	4	4	1,071	1,368	34	33	43	41
Maine	NM	283	NM	0	0	NM	254	3	2	32	26
Massachusetts	1,744	1,893	-7.8%	NM	21	1,669	1,809	41	42	20	21
New Hampshire	463	545	-15.0%	2	2	457	536	1	3	3	4
Rhode Island	495	603	-18.0%	0	0	490	597	5	6	0	0
Vermont	0	0	-18.5%	0	0	0	0	0	0	0	0
Middle Atlantic	13,399	15,797	-15.2%	848	1,051	12,285	14,464	91	95	174	187
New Jersey	3,069	3,965	-22.6%	NM	25	3,001	3,891	15	17	32	32
New York	4,449	5,345	-16.8%	826	1,025	3,530	4,222	64	67	28	31
Pennsylvania	5,880	6,487	-9.4%	1	1	5,754	6,351	11	11	114	124
East North Central	8,926	8,573	4.1%	3,826	3,299	4,760	4,996	121	127	218	151
Illinois	1,300	1,502	-13.4%	NM	193	1,045	1,224	29	28	62	57
Indiana	1,616	1,463	10.4%	1,259	1,129	257	273	15	18	84	43
Michigan	2,220	2,124	4.5%	763	645	1,370	1,410	46	48	40	21
Ohio	2,420	2,473	-2.2%	399	462	1,980	1,978	26	24	14	9
Wisconsin	1,369	1,011	35.5%	1,240	869	107	111	4	8	18	22
West North Central	2,071	1,595	29.9%	1,738	1,301	250	242	27	21	56	30
Iowa	418	187	123.7%	366	167	NM	0	8	7	44	13
Kansas	215	264	-18.5%	214	258	0	0	0	0	NM	7
Minnesota	757	438	72.9%	627	343	115	81	8	7	7	6
Missouri	449	540	-16.9%	300	370	NM	161	11	7	3	3
Nebraska	56	22	160.4%	56	22	0	0	0	0	0	0
North Dakota	92	81	13.5%	91	79	0	0	0	0	1	1
South Dakota	84	63	33.0%	84	63	0	0	0	0	0	0
South Atlantic	30,371	29,300	3.7%	24,305	23,606	5,643	5,280	50	51	373	362
Delaware	539	747	-27.8%	4	6	449	654	0	0	87	86
District of Columbia	3	2	45.4%	0	0	0	0	3	2	0	0
Florida	15,009	14,704	2.1%	13,915	13,620	976	952	2	3	116	129
Georgia	4,667	4,322	8.0%	3,529	3,365	1,097	922	0	0	42	35
Maryland	683	593	15.2%	0	0	632	541	43	45	8	7
North Carolina	3,392	3,198	6.0%	2,920	2,662	461	526	1	1	11	9
South Carolina	1,514	1,716	-11.8%	1,262	1,385	243	327	0	0	9	4
Virginia	4,311	3,879	11.1%	2,646	2,558	1,609	1,258	1	1	55	62
West Virginia	252	139	81.7%	30	10	177	99	0	0	46	30
East South Central	10,373	12,143	-14.6%	6,719	7,668	3,453	4,282	13	18	187	175
Alabama	4,792	5,565	-13.9%	1,625	1,594	3,080	3,886	0	0	86	85
Kentucky	732	678	8.0%	641	601	75	57	0	0	17	21
Mississippi	3,965	4,776	-17.0%	3,631	4,398	297	339	0	0	37	39
Tennessee	884	1,124	-21.4%	822	1,075	2	0	13	18	47	31
West South Central	27,403	31,252	-12.3%	8,251	9,822	14,252	15,738	62	79	4,839	5,612
Arkansas	1,406	1,196	17.6%	609	575	776	603	0	3	22	15
Louisiana	4,972	5,664	-12.2%	2,725	3,183	368	285	NM	15	1,876	2,181
Oklahoma	2,876	3,405	-15.5%	1,559	2,131	1,295	1,262	0	0	23	12
Texas	18,149	20,988	-13.5%	3,358	3,934	11,814	13,588	59	62	2,918	3,404
Mountain	8,610	9,210	-6.5%	6,313	6,202	2,134	2,854	37	42	126	112
Arizona	3,352	3,934	-14.8%	1,947	1,889	1,392	2,029	13	16	0	0
Colorado	1,179	903	30.5%	972	776	205	126	0	0	2	1
Idaho	287	385	-25.5%	157	193	117	174	3	5	10	14
Montana	45	45	1.8%	32	36	14	9	0	0	0	0
Nevada	2,399	2,372	1.1%	2,177	2,156	187	187	5	5	29	23
New Mexico	780	866	-10.0%	570	537	200	319	9	10	0	0
Utah	505	656	-23.0%	445	607	18	10	7	6	36	33
Wyoming	63	48	30.9%	13	7	0	0	0	0	50	40
Pacific Contiguous	11,225	12,756	-12.0%	4,395	5,211	5,756	6,385	165	180	908	981
California	8,999	9,434	-4.6%	3,207	3,408	4,736	4,884	162	172	894	970
Oregon	1,303	1,892	-31.1%	556	993	738	890	4	5	5	4
Washington	922	1,430	-35.5%	632	810	281	610	0	3	9	7
Pacific Noncontiguous	243	210	15.8%	237	205	0	0	0	0	6	4
Alaska	243	210	15.8%	237	205	0	0	0	0	6	4
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	116,671	125,603	-7.1%	56,654	58,392	52,380	58,805	652	700	6,986	7,706

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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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	36,241	42,869	-15.5%	197	292	34,484	40,994	691	746	870	837
Connecticut	11,245	13,668	-17.7%	34	35	10,549	12,944	280	309	382	380
Maine	1,591	2,913	-45.4%	0	0	1,297	2,636	22	23	271	253
Massachusetts	16,747	17,534	-4.5%	NM	220	16,077	16,778	342	357	194	179
New Hampshire	2,907	3,672	-20.8%	27	36	2,848	3,593	8	17	24	25
Rhode Island	3,751	5,081	-26.2%	0	0	3,713	5,042	38	39	0	0
Vermont	1	1	-1.7%	1	1	0	0	1	1	0	0
Middle Atlantic	110,010	131,532	-16.4%	7,776	10,118	99,947	119,055	795	838	1,493	1,521
New Jersey	28,059	34,493	-18.7%	171	214	27,471	33,862	146	147	272	270
New York	37,502	45,188	-17.0%	7,600	9,895	29,113	34,434	548	600	241	260
Pennsylvania	44,449	51,851	-14.3%	5	9	43,364	50,760	100	91	980	991
East North Central	73,369	87,563	-16.2%	31,096	38,454	39,084	46,603	1,049	1,112	2,141	1,394
Illinois	10,891	13,975	-22.1%	1,062	1,435	9,051	11,759	245	253	533	529
Indiana	13,294	14,921	-10.9%	10,405	11,824	1,831	2,611	145	145	913	341
Michigan	19,264	23,195	-16.9%	6,349	8,259	12,166	14,258	404	446	345	233
Ohio	20,242	22,338	-9.4%	4,744	5,166	15,162	16,947	203	166	132	59
Wisconsin	9,679	13,134	-26.3%	8,536	11,770	874	1,028	52	103	218	233
West North Central	14,876	18,738	-20.6%	12,409	15,314	1,843	2,791	209	244	416	390
Iowa	2,482	2,549	-2.6%	2,163	2,339	NM	0	61	70	258	140
Kansas	2,000	1,660	20.5%	1,971	1,618	0	0	0	0	29	42
Minnesota	5,307	7,632	-30.5%	4,343	6,129	798	1,252	76	91	91	161
Missouri	3,241	4,985	-35.0%	2,091	3,332	1,045	1,538	72	82	33	32
Nebraska	573	414	38.6%	572	412	0	0	1	1	0	1
North Dakota	673	747	-9.8%	668	733	0	0	0	0	5	14
South Dakota	600	751	-20.1%	600	751	0	0	0	0	0	0
South Atlantic	253,899	253,367	0.2%	207,125	204,747	42,900	45,269	410	429	3,463	2,921
Delaware	5,294	6,166	-14.1%	11	51	4,543	5,371	0	0	739	744
District of Columbia	19	18	6.4%	0	0	0	0	19	18	0	0
Florida	123,861	124,035	-0.1%	115,404	112,954	7,342	9,957	19	26	1,096	1,098
Georgia	40,623	41,871	-3.0%	31,071	31,991	9,060	9,569	0	0	492	312
Maryland	4,934	4,898	0.7%	0	0	4,509	4,467	358	370	67	60
North Carolina	29,699	30,820	-3.6%	25,632	26,736	3,961	3,995	8	8	99	82
South Carolina	12,465	12,394	0.6%	10,596	9,933	1,771	2,418	0	0	97	43
Virginia	35,875	32,271	11.2%	24,286	22,964	11,085	8,832	6	7	498	468
West Virginia	1,129	895	26.2%	125	119	629	660	0	0	375	116
East South Central	90,792	99,746	-9.0%	60,289	63,705	28,623	34,338	136	144	1,745	1,559
Alabama	39,667	44,587	-11.0%	13,480	13,007	25,343	30,768	0	0	844	812
Kentucky	7,050	6,480	8.8%	6,597	5,808	269	474	0	0	184	198
Mississippi	36,121	39,760	-9.2%	32,794	36,351	3,000	3,095	3	0	324	315
Tennessee	7,955	8,918	-10.8%	7,418	8,538	10	2	132	144	394	234
West South Central	239,405	276,714	-13.5%	69,192	88,062	122,120	137,413	610	694	47,483	50,544
Arkansas	13,525	14,472	-6.5%	4,801	5,771	8,515	8,465	0	30	209	206
Louisiana	44,062	52,316	-15.8%	22,724	28,153	3,158	4,144	103	133	18,078	19,885
Oklahoma	24,681	29,035	-15.0%	15,118	19,594	9,389	9,311	0	0	174	130
Texas	157,136	180,891	-13.1%	26,550	34,544	101,057	115,493	508	531	29,022	30,323
Mountain	67,928	79,733	-14.8%	51,707	58,921	14,790	19,369	319	352	1,112	1,092
Arizona	22,917	28,623	-19.9%	14,774	16,392	8,034	12,114	109	118	0	0
Colorado	9,861	10,244	-3.7%	8,297	8,710	1,548	1,518	0	0	15	16
Idaho	2,063	2,771	-25.6%	1,128	1,591	811	1,041	29	33	95	107
Montana	356	383	-7.0%	272	304	82	75	0	0	2	3
Nevada	20,307	22,404	-9.4%	18,455	20,496	1,588	1,641	44	51	220	215
New Mexico	7,126	7,761	-8.2%	4,473	4,833	2,569	2,837	82	91	1	1
Utah	4,727	6,973	-32.2%	4,187	6,446	157	141	55	59	329	327
Wyoming	572	574	-0.4%	121	149	1	1	0	0	450	424
Pacific Contiguous	78,720	92,525	-14.9%	30,007	34,684	39,340	48,235	1,443	1,434	7,930	8,172
California	64,607	72,511	-10.9%	22,527	24,271	32,869	38,793	1,403	1,390	7,808	8,058
Oregon	7,826	11,242	-30.4%	3,320	5,328	4,421	5,836	30	28	54	50
Washington	6,288	8,771	-28.3%	4,159	5,085	2,050	3,606	10	16	68	65
Pacific Noncontiguous	1,795	2,318	-22.5%	1,743	2,269	0	0	2	1	50	48
Alaska	1,795	2,318	-22.5%	1,743	2,269	0	0	2	1	50	48
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	967,036	1,085,104	-10.9%	471,539	516,566	423,130	494,065	5,665	5,994	66,702	68,478

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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 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	61	49	22.9%	0	0	0	0	0	0	61	49
New Jersey	18	16	15.8%	0	0	0	0	0	0	18	16
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	42	34	26.3%	0	0	0	0	0	0	42	34
East North Central	424	400	6.1%	NM	23	164	158	0	0	259	219
Illinois	18	22	-21.3%	0	0	0	0	0	0	18	22
Indiana	231	185	25.0%	NM	1	0	0	0	0	230	184
Michigan	118	142	-17.1%	0	22	118	119	0	0	0	0
Ohio	58	51	14.2%	0	0	46	38	0	0	12	13
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	3	47.2%	0	0	0	0	0	0	4	3
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	3	47.2%	0	0	0	0	0	0	4	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	32	27	15.3%	0	0	0	0	0	0	32	27
Delaware	28	25	13.0%	0	0	0	0	0	0	28	25
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	1	-21.2%	0	0	0	0	0	0	0	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	2	52.2%	0	0	0	0	0	0	3	2
East South Central	NM	4	NM	0	0	0	0	0	0	NM	4
Alabama	NM	2	NM	0	0	0	0	0	0	NM	2
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-15.9%	0	0	0	0	0	0	1	1
West South Central	398	369	7.8%	0	0	134	133	0	0	264	236
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	191	134	42.2%	0	0	0	0	0	0	191	134
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	207	235	-11.9%	0	0	134	133	0	0	73	102
Mountain	30	26	15.5%	0	0	1	0	0	0	29	26
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	3	-68.5%	0	0	0	0	0	0	1	3
Wyoming	28	23	21.6%	0	0	0	0	0	0	28	23
Pacific Contiguous	165	138	20.0%	0	0	33	33	0	0	132	105
California	132	105	25.4%	0	0	0	0	0	0	132	105
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	33	33	2.4%	0	0	33	33	0	0	0	0
Pacific Noncontiguous	4	4	-0.3%	0	0	0	0	0	0	4	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	4	4	-0.3%	0	0	0	0	0	0	4	4
U.S. Total	1,120	1,020	9.7%	NM	23	332	323	0	0	787	674

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	629	527	19.4%	0	0	0	0	0	0	629	527
New Jersey	166	154	8.2%	0	0	0	0	0	0	166	154
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	462	373	24.0%	0	0	0	0	0	0	462	373
East North Central	4,465	3,729	19.7%	113	104	1,664	1,606	0	0	2,688	2,020
Illinois	139	154	-9.8%	0	0	0	4	0	0	139	150
Indiana	2,429	1,744	39.2%	12	8	0	0	0	0	2,416	1,736
Michigan	1,238	1,222	1.3%	100	96	1,138	1,126	0	0	0	0
Ohio	659	609	8.1%	0	0	526	476	0	0	133	134
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	30	30	0.0%	0	0	0	0	0	0	30	30
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	30	30	0.0%	0	0	0	0	0	0	30	30
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	404	240	68.4%	0	0	0	0	0	0	404	240
Delaware	374	218	71.5%	0	0	0	0	0	0	374	218
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4	4	9.7%	0	0	0	0	0	0	4	4
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	25	18	43.5%	0	0	0	0	0	0	25	18
East South Central	22	28	-20.8%	0	0	0	0	0	0	22	28
Alabama	11	17	-36.0%	0	0	0	0	0	0	11	17
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	11	11	2.0%	0	0	0	0	0	0	11	11
West South Central	3,630	3,546	2.4%	0	0	1,076	989	0	0	2,554	2,557
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,698	1,625	4.5%	0	0	0	0	0	0	1,698	1,625
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,932	1,921	0.6%	0	0	1,076	989	0	0	856	932
Mountain	280	294	-4.7%	0	0	13	7	0	0	268	287
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	13	6	99.1%	0	0	13	6	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	11	38	-69.6%	0	0	0	0	0	0	11	38
Wyoming	256	249	2.8%	0	0	0	0	0	0	256	249
Pacific Contiguous	1,307	1,409	-7.2%	0	0	262	303	0	0	1,046	1,106
California	1,046	1,106	-5.5%	0	0	0	0	0	0	1,046	1,106
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	262	303	-13.7%	0	0	262	303	0	0	0	0
Pacific Noncontiguous	38	41	-8.3%	0	0	0	0	0	0	38	41
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	38	41	-8.3%	0	0	0	0	0	0	38	41
U.S. Total	10,804	9,843	9.8%	113	104	3,014	2,905	0	0	7,677	6,835

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	2,863	2,687	6.5%	0	0	2,863	2,687	0	0	0	0
Connecticut	1,488	1,493	-0.3%	0	0	1,488	1,493	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	477	297	60.4%	0	0	477	297	0	0	0	0
New Hampshire	897	897	0.0%	0	0	897	897	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,356	12,908	3.5%	0	0	13,356	12,908	0	0	0	0
New Jersey	2,897	2,373	22.1%	0	0	2,897	2,373	0	0	0	0
New York	3,713	3,663	1.3%	0	0	3,713	3,663	0	0	0	0
Pennsylvania	6,746	6,872	-1.8%	0	0	6,746	6,872	0	0	0	0
East North Central	13,086	12,987	0.8%	1,925	2,302	11,161	10,686	0	0	0	0
Illinois	8,184	8,037	1.8%	0	0	8,184	8,037	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,502	2,870	-12.8%	1,925	2,302	576	569	0	0	0	0
Ohio	1,552	1,221	27.1%	0	0	1,552	1,221	0	0	0	0
Wisconsin	848	859	-1.3%	0	0	848	859	0	0	0	0
West North Central	3,928	3,152	24.6%	3,500	2,749	428	403	0	0	0	0
Iowa	428	403	6.4%	0	0	428	403	0	0	0	0
Kansas	871	25	NM	871	25	0	0	0	0	0	0
Minnesota	1,195	1,138	5.0%	1,195	1,138	0	0	0	0	0	0
Missouri	864	849	1.9%	864	849	0	0	0	0	0	0
Nebraska	570	738	-22.8%	570	738	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,330	16,492	-1.0%	15,065	15,250	1,266	1,241	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	2,355	2,476	-4.9%	2,355	2,476	0	0	0	0	0	0
Georgia	2,544	2,919	-12.8%	2,544	2,919	0	0	0	0	0	0
Maryland	1,266	1,241	1.9%	0	0	1,266	1,241	0	0	0	0
North Carolina	3,453	3,687	-6.4%	3,453	3,687	0	0	0	0	0	0
South Carolina	4,583	4,035	13.6%	4,583	4,035	0	0	0	0	0	0
Virginia	2,130	2,133	-0.2%	2,130	2,133	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,955	6,069	14.6%	6,955	6,069	0	0	0	0	0	0
Alabama	3,662	3,434	6.6%	3,662	3,434	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-14	236	-106.1%	-14	236	0	0	0	0	0	0
Tennessee	3,308	2,399	37.9%	3,308	2,399	0	0	0	0	0	0
West South Central	6,344	6,214	2.1%	2,840	2,610	3,504	3,604	0	0	0	0
Arkansas	1,325	1,076	23.1%	1,325	1,076	0	0	0	0	0	0
Louisiana	1,515	1,534	-1.2%	1,515	1,534	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,504	3,604	-2.8%	0	0	3,504	3,604	0	0	0	0
Mountain	2,853	2,507	13.8%	2,853	2,507	0	0	0	0	0	0
Arizona	2,853	2,507	13.8%	2,853	2,507	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	2,359	2,432	-3.0%	2,359	2,432	0	0	0	0	0	0
California	1,623	1,631	-0.5%	1,623	1,631	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	736	801	-8.2%	736	801	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	68,073	65,448	4.0%	35,496	33,919	32,577	31,529	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.
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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	23,688	24,040	-1.5%	0	0	23,688	24,040	0	0	0	0
Connecticut	12,897	11,978	7.7%	0	0	12,897	11,978	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	3,562	4,061	-12.3%	0	0	3,562	4,061	0	0	0	0
New Hampshire	7,229	8,002	-9.7%	0	0	7,229	8,002	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	118,568	114,829	3.3%	0	0	118,568	114,829	0	0	0	0
New Jersey	25,706	21,954	17.1%	0	0	25,706	21,954	0	0	0	0
New York	30,838	30,749	0.3%	0	0	30,838	30,749	0	0	0	0
Pennsylvania	62,024	62,126	-0.2%	0	0	62,024	62,126	0	0	0	0
East North Central	117,238	118,350	-0.9%	20,459	19,791	96,779	98,559	0	0	0	0
Illinois	72,238	73,785	-2.1%	0	0	72,238	73,785	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	24,754	25,055	-1.2%	20,459	19,791	4,296	5,264	0	0	0	0
Ohio	12,872	12,016	7.1%	0	0	12,872	12,016	0	0	0	0
Wisconsin	7,373	7,494	-1.6%	0	0	7,373	7,494	0	0	0	0
West North Central	35,410	36,230	-2.3%	31,472	32,426	3,938	3,805	0	0	0	0
Iowa	3,938	3,805	3.5%	0	0	3,938	3,805	0	0	0	0
Kansas	7,945	7,093	12.0%	7,945	7,093	0	0	0	0	0	0
Minnesota	10,550	10,505	0.4%	10,550	10,505	0	0	0	0	0	0
Missouri	7,831	6,717	16.6%	7,831	6,717	0	0	0	0	0	0
Nebraska	5,145	8,111	-36.6%	5,145	8,111	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	152,675	155,303	-1.7%	141,524	144,423	11,151	10,881	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	21,889	22,467	-2.6%	21,889	22,467	0	0	0	0	0	0
Georgia	25,165	25,351	-0.7%	25,165	25,351	0	0	0	0	0	0
Maryland	11,151	10,881	2.5%	0	0	11,151	10,881	0	0	0	0
North Carolina	31,468	32,227	-2.4%	31,468	32,227	0	0	0	0	0	0
South Carolina	40,276	41,843	-3.7%	40,276	41,843	0	0	0	0	0	0
Virginia	22,726	22,536	0.8%	22,726	22,536	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	60,806	57,338	6.0%	60,806	57,338	0	0	0	0	0	0
Alabama	31,967	30,724	4.0%	31,967	30,724	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	5,718	5,937	-3.7%	5,718	5,937	0	0	0	0	0	0
Tennessee	23,120	20,677	11.8%	23,120	20,677	0	0	0	0	0	0
West South Central	47,688	56,190	-15.1%	19,237	24,219	28,451	31,972	0	0	0	0
Arkansas	8,586	11,585	-25.9%	8,586	11,585	0	0	0	0	0	0
Louisiana	10,651	12,634	-15.7%	10,651	12,634	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	28,451	31,972	-11.0%	0	0	28,451	31,972	0	0	0	0
Mountain	24,560	24,538	0.1%	24,560	24,538	0	0	0	0	0	0
Arizona	24,560	24,538	0.1%	24,560	24,538	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	18,469	21,300	-13.3%	18,469	21,300	0	0	0	0	0	0
California	12,907	13,988	-7.7%	12,907	13,988	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5,562	7,313	-23.9%	5,562	7,313	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	599,102	608,119	-1.5%	316,527	324,034	282,575	284,086	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	489	259	88.6%	62	12	401	230	0	0	26	17
Connecticut	16	10	52.8%	NM	1	15	10	0	0	0	0
Maine	242	199	21.6%	0	0	217	182	0	0	26	17
Massachusetts	57	5	994.2%	NM	1	46	4	0	0	0	0
New Hampshire	89	28	212.9%	22	5	67	23	0	0	0	0
Rhode Island	0	0	-94.0%	0	0	0	0	0	0	0	0
Vermont	85	16	435.4%	29	6	57	10	0	0	0	0
Middle Atlantic	2,450	2,061	18.9%	1,968	1,747	479	309	0	0	3	4
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	2,267	2,017	12.4%	1,966	1,746	298	267	0	0	3	4
Pennsylvania	182	43	326.4%	2	1	180	41	0	0	0	0
East North Central	349	291	19.9%	300	252	34	27	0	0	15	12
Illinois	9	7	31.9%	3	3	NM	4	0	0	0	0
Indiana	35	26	32.0%	35	26	0	0	0	0	0	0
Michigan	95	52	82.7%	86	48	NM	4	0	0	2	1
Ohio	40	32	23.8%	26	21	14	12	0	0	0	0
Wisconsin	170	173	-2.1%	150	155	NM	8	0	0	12	11
West North Central	695	903	-23.0%	670	867	15	24	0	0	10	13
Iowa	54	74	-26.5%	54	73	0	1	0	0	0	0
Kansas	1	2	-44.4%	0	0	1	2	0	0	0	0
Minnesota	75	118	-36.4%	52	84	13	21	0	0	10	13
Missouri	95	64	49.0%	95	64	0	0	0	0	0	0
Nebraska	93	69	36.0%	93	69	0	0	0	0	0	0
North Dakota	118	155	-23.7%	118	155	0	0	0	0	0	0
South Dakota	259	422	-38.8%	259	422	0	0	0	0	0	0
South Atlantic	1,002	654	53.2%	877	590	83	48	1	1	42	15
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14	8	80.7%	14	8	0	0	0	0	0	0
Georgia	211	180	17.4%	210	178	0	0	0	0	1	1
Maryland	45	25	78.6%	0	0	45	25	0	0	0	0
North Carolina	316	205	54.0%	311	202	NM	2	0	1	NM	0
South Carolina	169	97	73.3%	166	95	NM	2	0	0	0	0
Virginia	119	86	38.3%	114	81	NM	4	0	0	0	1
West Virginia	130	54	140.4%	62	26	27	14	0	0	40	14
East South Central	1,452	898	61.6%	1,451	898	NM	1	0	0	0	0
Alabama	587	248	137.3%	587	248	0	0	0	0	0	0
Kentucky	339	209	62.3%	338	208	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	526	442	19.0%	526	442	0	0	0	0	0	0
West South Central	674	678	-0.5%	572	579	101	99	NM	0	0	0
Arkansas	275	271	1.4%	270	268	NM	3	0	0	0	0
Louisiana	93	94	-1.1%	0	0	93	94	0	0	0	0
Oklahoma	202	234	-13.4%	202	234	0	0	0	0	0	0
Texas	104	79	31.6%	100	77	3	2	NM	0	0	0
Mountain	2,024	2,034	-0.5%	1,942	1,945	81	88	2	1	0	0
Arizona	512	566	-9.6%	512	566	0	0	0	0	0	0
Colorado	108	185	-41.7%	90	164	16	20	2	1	0	0
Idaho	553	521	6.1%	503	465	50	57	0	0	0	0
Montana	616	520	18.5%	607	512	NM	7	0	0	0	0
Nevada	113	125	-9.0%	109	122	5	3	0	0	0	0
New Mexico	NM	9	NM	NM	9	0	0	0	0	0	0
Utah	47	49	-4.0%	47	48	0	1	0	0	0	0
Wyoming	61	59	2.9%	60	59	1	1	0	0	0	0
Pacific Contiguous	9,719	8,380	16.0%	9,513	8,213	206	166	0	1	0	0
California	2,872	2,297	25.0%	2,711	2,165	161	131	0	1	0	0
Oregon	2,159	1,955	10.5%	2,142	1,940	17	14	0	0	0	0
Washington	4,688	4,129	13.6%	4,660	4,108	28	21	0	0	0	0
Pacific Noncontiguous	107	208	-48.4%	94	179	1	5	11	20	NM	5
Alaska	104	197	-47.4%	93	177	0	0	11	20	0	0
Hawaii	4	11	-66.6%	1	2	1	5	0	0	NM	5
U.S. Total	18,963	16,368	15.9%	17,449	15,283	1,402	996	14	23	98	65

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	5,302	5,005	5.9%	711	674	4,299	4,068	3	3	289	261
Connecticut	208	180	15.5%	20	13	188	166	0	0	0	0
Maine	2,525	2,398	5.3%	0	0	2,241	2,138	0	0	284	260
Massachusetts	639	552	15.9%	136	109	495	439	3	3	5	1
New Hampshire	999	933	7.0%	231	225	768	708	0	0	0	0
Rhode Island	2	2	13.3%	0	0	2	2	0	0	0	0
Vermont	930	942	-1.3%	325	326	605	616	0	0	0	0
Middle Atlantic	23,894	22,179	7.7%	18,588	17,452	5,247	4,680	5	3	55	43
New Jersey	22	7	202.2%	0	0	22	7	0	0	0	0
New York	21,749	20,276	7.3%	18,509	17,399	3,181	2,831	5	3	55	43
Pennsylvania	2,123	1,896	12.0%	79	53	2,044	1,842	0	0	0	0
East North Central	4,430	4,096	8.1%	3,874	3,579	404	367	1	1	150	149
Illinois	99	101	-2.6%	31	39	67	61	1	1	0	0
Indiana	354	313	13.1%	354	313	0	0	0	0	0	0
Michigan	1,290	1,285	0.4%	1,180	1,177	88	87	0	0	22	21
Ohio	421	358	17.5%	270	229	151	129	0	0	0	0
Wisconsin	2,266	2,039	11.1%	2,039	1,821	98	90	0	0	128	129
West North Central	9,381	8,710	7.7%	9,053	8,430	207	186	0	0	122	93
Iowa	729	734	-0.8%	723	728	6	6	0	0	0	0
Kansas	23	24	-7.7%	0	0	23	24	0	0	0	0
Minnesota	998	862	15.8%	698	614	178	155	0	0	122	93
Missouri	1,093	1,144	-4.4%	1,093	1,144	0	0	0	0	0	0
Nebraska	1,275	686	85.8%	1,275	686	0	0	0	0	0	0
North Dakota	1,638	1,524	7.4%	1,638	1,524	0	0	0	0	0	0
South Dakota	3,626	3,735	-2.9%	3,626	3,735	0	0	0	0	0	0
South Atlantic	12,814	12,340	3.8%	10,250	10,380	2,126	1,523	10	14	428	423
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	150	147	2.4%	150	147	0	0	0	0	0	0
Georgia	2,487	2,807	-11.4%	2,469	2,788	6	6	0	0	11	13
Maryland	1,683	1,131	48.7%	0	0	1,683	1,131	0	0	0	0
North Carolina	3,696	3,827	-3.4%	3,646	3,777	36	38	9	12	NM	0
South Carolina	2,173	1,960	10.8%	2,132	1,913	40	46	1	2	0	0
Virginia	1,285	1,218	5.4%	1,226	1,152	58	59	0	0	0	7
West Virginia	1,340	1,249	7.3%	627	603	303	243	0	0	410	402
East South Central	16,391	14,337	14.3%	16,383	14,329	NM	8	0	0	0	0
Alabama	7,144	6,085	17.4%	7,144	6,085	0	0	0	0	0	0
Kentucky	3,343	2,750	21.6%	3,335	2,742	NM	8	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5,904	5,502	7.3%	5,904	5,502	0	0	0	0	0	0
West South Central	7,443	7,483	-0.5%	6,454	6,522	984	961	NM	0	0	0
Arkansas	3,063	3,086	-0.7%	3,027	3,047	37	38	0	0	0	0
Louisiana	923	893	3.3%	0	0	923	893	0	0	0	0
Oklahoma	2,199	2,276	-3.4%	2,199	2,276	0	0	0	0	0	0
Texas	1,258	1,228	2.4%	1,228	1,199	25	29	NM	0	0	0
Mountain	26,257	25,150	4.4%	25,170	24,085	1,075	1,056	12	10	0	0
Arizona	5,540	5,662	-2.1%	5,540	5,662	0	0	0	0	0	0
Colorado	1,656	1,629	1.6%	1,433	1,446	210	174	12	10	0	0
Idaho	7,632	7,659	-0.4%	6,941	6,927	692	732	0	0	0	0
Montana	8,465	7,193	17.7%	8,347	7,092	117	101	0	0	0	0
Nevada	1,272	1,403	-9.3%	1,232	1,370	40	32	0	0	0	0
New Mexico	201	116	73.6%	201	116	0	0	0	0	0	0
Utah	657	595	10.5%	650	587	8	8	0	0	0	0
Wyoming	833	894	-6.8%	826	885	7	9	0	0	0	0
Pacific Contiguous	133,106	108,624	22.5%	130,412	106,737	2,682	1,876	13	10	0	0
California	37,010	23,268	59.1%	34,932	21,927	2,065	1,331	13	10	0	0
Oregon	29,092	26,002	11.9%	28,859	25,793	233	209	0	0	0	0
Washington	67,004	59,353	12.9%	66,620	59,017	383	336	0	0	0	0
Pacific Noncontiguous	1,474	1,214	21.4%	1,286	1,051	10	20	149	117	29	26
Alaska	1,429	1,156	23.6%	1,280	1,039	0	0	149	117	0	0
Hawaii	45	58	-22.0%	6	12	10	20	0	0	29	26
U.S. Total	240,491	209,137	15.0%	222,179	193,240	17,042	14,745	198	158	1,072	995

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	892	837	6.6%	48	63	739	683	17	16	89	75
Connecticut	71	80	-11.6%	0	0	70	80	0	0	0	0
Maine	363	320	13.3%	0	0	267	238	7	8	89	75
Massachusetts	218	184	18.3%	5	6	208	174	4	5	0	0
New Hampshire	152	171	-11.3%	10	23	137	146	5	3	0	0
Rhode Island	29	21	40.6%	0	0	29	20	1	0	0	0
Vermont	60	61	-1.7%	32	34	28	27	0	0	0	0
Middle Atlantic	1,022	908	12.5%	10	6	877	791	63	49	72	61
New Jersey	203	150	35.2%	10	6	162	117	30	26	NM	0
New York	406	395	2.8%	0	0	370	362	20	19	15	14
Pennsylvania	413	363	13.7%	0	0	345	312	13	4	55	47
East North Central	1,866	1,879	-0.7%	257	249	1,468	1,475	19	19	122	136
Illinois	655	725	-9.7%	3	2	652	722	NM	0	0	0
Indiana	338	298	13.6%	35	26	296	265	1	2	6	5
Michigan	515	531	-3.0%	128	140	329	315	11	14	47	62
Ohio	138	118	17.3%	NM	2	114	94	1	1	21	21
Wisconsin	220	208	5.9%	90	79	77	79	5	3	48	48
West North Central	5,236	5,099	2.7%	1,587	1,733	3,575	3,278	10	17	64	70
Iowa	1,333	1,579	-15.6%	861	986	465	583	4	5	2	5
Kansas	1,490	1,143	30.3%	135	56	1,356	1,087	0	0	0	0
Minnesota	949	990	-4.1%	203	253	680	669	4	4	61	65
Missouri	125	102	22.8%	4	4	121	91	0	7	0	0
Nebraska	374	303	23.6%	17	22	356	279	1	2	0	0
North Dakota	762	676	12.7%	302	332	460	344	0	0	0	1
South Dakota	201	305	-33.9%	64	79	137	225	0	0	0	0
South Atlantic	2,639	2,142	23.2%	281	225	1,474	1,042	30	39	853	836
Delaware	12	10	13.0%	NM	1	9	8	NM	0	NM	1
District of Columbia	2	4	-44.9%	0	0	2	4	0	0	0	0
Florida	436	372	17.5%	63	20	228	205	3	4	143	143
Georgia	600	481	24.8%	23	7	264	156	NM	1	312	317
Maryland	108	94	15.4%	NM	1	96	80	NM	2	11	11
North Carolina	830	534	55.3%	41	25	659	389	13	16	116	105
South Carolina	237	207	14.3%	38	34	47	36	0	0	152	137
Virginia	328	373	-12.0%	116	137	84	97	11	16	117	122
West Virginia	86	67	27.7%	0	0	86	67	0	0	0	0
East South Central	543	516	5.2%	13	11	73	45	NM	0	457	460
Alabama	282	279	1.3%	4	0	37	25	0	0	241	254
Kentucky	37	40	-6.5%	9	11	0	1	0	0	28	27
Mississippi	127	108	17.5%	0	0	14	2	0	0	112	106
Tennessee	97	90	7.8%	0	0	21	17	NM	0	75	73
West South Central	7,358	5,990	22.8%	130	103	6,796	5,457	7	7	425	424
Arkansas	121	112	7.8%	NM	0	11	12	1	0	109	99
Louisiana	225	226	-0.3%	0	0	6	6	0	0	219	219
Oklahoma	1,875	1,524	23.1%	111	91	1,737	1,416	0	0	27	17
Texas	5,137	4,129	24.4%	19	11	5,041	4,022	7	6	71	90
Mountain	3,324	3,023	9.9%	271	266	3,027	2,725	13	12	13	19
Arizona	516	369	40.1%	58	41	456	325	NM	2	0	0
Colorado	730	824	-11.3%	23	10	705	811	NM	2	0	0
Idaho	227	145	56.9%	NM	1	214	125	1	1	10	17
Montana	139	170	-17.9%	14	19	123	149	0	0	2	1
Nevada	681	613	11.1%	3	5	670	602	7	6	0	0
New Mexico	470	346	35.8%	24	27	446	319	NM	0	0	0
Utah	288	282	2.4%	22	21	266	260	1	1	0	0
Wyoming	272	276	-1.7%	126	142	146	134	0	0	0	0
Pacific Contiguous	5,818	5,988	-2.8%	576	730	4,956	4,942	80	90	206	225
California	4,652	4,405	5.6%	191	201	4,331	4,058	76	86	54	60
Oregon	543	722	-24.8%	89	125	407	552	3	3	44	43
Washington	623	860	-27.5%	296	403	218	333	NM	1	108	122
Pacific Noncontiguous	122	146	-16.4%	16	18	86	99	21	22	NM	7
Alaska	14	20	-31.9%	NM	10	NM	6	4	4	NM	0
Hawaii	108	126	-13.9%	9	8	82	94	17	18	0	7
U.S. Total	28,821	26,529	8.6%	3,189	3,405	23,071	20,539	260	272	2,301	2,314

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	8,887	7,824	13.6%	635	656	7,249	6,231	152	141	852	797
Connecticut	686	680	0.8%	3	2	683	678	0	0	0	0
Maine	3,802	3,266	16.4%	0	0	2,882	2,403	69	67	851	796
Massachusetts	1,839	1,525	20.6%	56	54	1,739	1,428	43	41	1	1
New Hampshire	1,640	1,553	5.6%	208	223	1,399	1,303	33	26	0	0
Rhode Island	276	178	54.9%	0	0	271	174	5	5	0	0
Vermont	645	623	3.5%	368	376	275	245	2	2	0	0
Middle Atlantic	10,755	10,062	6.9%	76	66	9,480	8,911	553	490	645	595
New Jersey	1,638	1,409	16.2%	76	66	1,294	1,098	259	241	8	4
New York	4,746	4,463	6.3%	0	0	4,424	4,152	175	162	147	150
Pennsylvania	4,370	4,189	4.3%	0	0	3,761	3,661	119	87	490	440
East North Central	21,556	20,369	5.8%	2,740	2,509	17,431	16,427	177	166	1,210	1,267
Illinois	8,294	7,801	6.3%	26	27	8,264	7,771	NM	3	0	0
Indiana	3,797	3,925	-3.3%	309	241	3,418	3,610	16	16	54	58
Michigan	5,488	5,037	9.0%	1,396	1,318	3,505	3,090	105	110	482	518
Ohio	1,729	1,445	19.6%	19	17	1,481	1,191	11	10	218	227
Wisconsin	2,249	2,160	4.1%	989	906	762	764	42	27	456	463
West North Central	52,480	44,318	18.4%	16,883	15,210	34,936	28,472	128	134	533	502
Iowa	14,717	13,986	5.2%	9,484	8,749	5,165	5,160	34	38	34	39
Kansas	13,443	10,316	30.3%	1,249	635	12,194	9,681	0	0	0	0
Minnesota	9,616	8,163	17.8%	2,123	2,172	6,962	5,495	37	39	494	456
Missouri	1,403	929	51.0%	31	31	1,327	854	43	42	3	2
Nebraska	3,660	2,672	36.9%	186	198	3,460	2,460	14	15	0	0
North Dakota	7,488	5,627	33.1%	3,136	2,726	4,349	2,896	0	0	3	4
South Dakota	2,153	2,624	-17.9%	675	698	1,478	1,926	0	0	0	0
South Atlantic	23,879	19,098	25.0%	2,574	1,774	12,878	9,199	280	387	8,147	7,738
Delaware	100	89	12.0%	6	5	77	68	5	4	12	12
District of Columbia	33	40	-16.7%	0	0	33	40	0	0	0	0
Florida	4,256	3,645	16.8%	548	197	2,156	1,893	38	39	1,514	1,516
Georgia	5,346	3,906	36.9%	219	58	2,106	982	NM	4	3,017	2,861
Maryland	987	918	7.6%	8	7	875	814	14	17	91	80
North Carolina	6,678	4,580	45.8%	298	173	5,280	3,332	110	152	989	923
South Carolina	2,118	1,821	16.3%	330	315	399	318	0	0	1,389	1,188
Virginia	3,205	3,154	1.6%	1,164	1,019	795	808	110	170	1,136	1,157
West Virginia	1,156	944	22.4%	0	0	1,156	944	0	0	0	0
East South Central	5,058	4,789	5.6%	101	75	596	362	5	2	4,356	4,350
Alabama	2,690	2,506	7.3%	20	0	342	196	0	0	2,328	2,309
Kentucky	346	360	-3.8%	81	75	5	10	0	0	260	275
Mississippi	1,164	1,143	1.8%	0	0	53	8	0	0	1,111	1,136
Tennessee	858	781	10.0%	0	0	196	148	5	2	657	630
West South Central	73,406	61,847	18.7%	1,293	1,211	68,121	56,600	59	64	3,933	3,971
Arkansas	1,126	1,028	9.5%	NM	1	104	99	5	3	1,015	925
Louisiana	2,110	2,146	-1.7%	0	0	61	59	0	0	2,049	2,087
Oklahoma	17,815	14,719	21.0%	1,098	996	16,524	13,470	0	0	194	253
Texas	52,355	43,954	19.1%	193	214	51,432	42,973	54	61	675	706
Mountain	31,950	27,683	15.4%	2,713	2,498	28,862	24,793	109	101	266	290
Arizona	4,452	3,536	25.9%	481	398	3,953	3,119	18	19	0	0
Colorado	7,768	7,301	6.4%	232	76	7,514	7,211	20	12	2	2
Idaho	2,569	2,342	9.7%	8	9	2,306	2,054	9	8	246	271
Montana	1,525	1,557	-2.1%	157	167	1,352	1,376	0	0	16	15
Nevada	5,814	5,129	13.4%	33	41	5,725	5,038	53	48	2	2
New Mexico	4,049	3,112	30.1%	198	163	3,848	2,948	NM	2	0	0
Utah	2,694	1,690	59.5%	198	189	2,489	1,488	8	12	0	0
Wyoming	3,080	3,016	2.1%	1,404	1,457	1,676	1,559	0	0	0	0
Pacific Contiguous	55,464	53,365	3.9%	5,953	6,505	46,860	44,195	745	776	1,906	1,889
California	42,511	39,026	8.9%	1,753	1,733	39,549	36,066	708	740	501	488
Oregon	6,054	6,707	-9.7%	918	1,145	4,717	5,156	24	24	394	382
Washington	6,899	7,632	-9.6%	3,281	3,628	2,594	2,973	12	12	1,012	1,019
Pacific Noncontiguous	1,149	1,127	2.0%	152	142	824	753	174	183	NM	49
Alaska	146	153	-4.8%	75	78	41	43	30	31	NM	0
Hawaii	1,003	973	3.1%	77	63	783	710	144	151	0	49
U.S. Total	284,584	250,482	13.6%	33,118	30,647	227,236	195,944	2,382	2,445	21,847	21,447

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	-35	-38	-7.5%	0	0	-35	-38	0	0	0	0
Connecticut	1	0	--	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-36	-38	-5.1%	0	0	-36	-38	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	-107	-124	-13.8%	-59	-74	-49	-51	0	0	0	0
New Jersey	-16	-20	-20.6%	-16	-20	0	0	0	0	0	0
New York	-43	-54	-20.5%	-43	-54	0	0	0	0	0	0
Pennsylvania	-49	-51	-4.0%	0	0	-49	-51	0	0	0	0
East North Central	-32	-52	-37.7%	-32	-52	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	-32	-52	-37.7%	-32	-52	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	7	-6	-207.0%	7	-6	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	7	-6	-207.0%	7	-6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-360	-398	-9.5%	-360	-398	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	-124	-147	-16.1%	-124	-147	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	-92	-105	-12.1%	-92	-105	0	0	0	0	0	0
Virginia	-144	-146	-1.0%	-144	-146	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-80	-80	0.0%	-80	-80	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	-80	-80	0.0%	-80	-80	0	0	0	0	0	0
West South Central	-12	-8	38.2%	-12	-8	0	0	0	0	0	0
Arkansas	1	4	-66.5%	1	4	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-13	-13	2.7%	-13	-13	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-21	-15	36.2%	-21	-15	0	0	0	0	0	0
Arizona	5	6	-12.8%	5	6	0	0	0	0	0	0
Colorado	-26	-21	22.7%	-26	-21	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	34	7	391.6%	34	7	0	0	0	0	0	0
California	34	7	368.7%	34	7	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	-165.6%	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	-606	-715	-15.3%	-522	-626	-84	-89	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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	-333	-378	-12.0%	0	0	-333	-378	0	0	0	0
Connecticut	-2	2	-253.4%	0	0	-2	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-330	-380	-13.0%	0	0	-330	-380	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	-897	-930	-3.5%	-441	-522	-456	-409	0	0	0	0
New Jersey	-127	-163	-22.3%	-127	-163	0	0	0	0	0	0
New York	-314	-358	-12.3%	-314	-358	0	0	0	0	0	0
Pennsylvania	-456	-409	11.6%	0	0	-456	-409	0	0	0	0
East North Central	-515	-575	-10.4%	-515	-575	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	-515	-575	-10.4%	-515	-575	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	115	189	-39.4%	115	189	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	115	189	-39.4%	115	189	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-2,776	-2,356	17.8%	-2,776	-2,356	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	-989	-578	71.0%	-989	-578	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	-793	-802	-1.0%	-793	-802	0	0	0	0	0	0
Virginia	-993	-976	1.8%	-993	-976	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-545	-543	0.4%	-545	-543	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	-545	-543	0.4%	-545	-543	0	0	0	0	0	0
West South Central	-73	-25	187.6%	-73	-25	0	0	0	0	0	0
Arkansas	20	38	-47.8%	20	38	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-93	-63	46.6%	-93	-63	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-254	-156	62.5%	-254	-156	0	0	0	0	0	0
Arizona	-4	78	-105.3%	-4	78	0	0	0	0	0	0
Colorado	-249	-234	6.5%	-249	-234	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	380	8	NM	380	8	0	0	0	0	0	0
California	376	11	NM	376	11	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4	-3	-228.9%	4	-3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,898	-4,766	2.8%	-4,109	-3,979	-789	-787	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	150	157	-3.9%	0	0	131	140	7	7	12	9
Connecticut	40	48	-16.1%	0	0	40	48	0	0	0	0
Maine	33	28	16.2%	0	0	14	12	7	7	12	9
Massachusetts	73	76	-4.3%	0	0	73	76	0	0	0	0
New Hampshire	4	4	5.9%	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	186	181	2.8%	0	0	144	145	37	30	5	6
New Jersey	49	51	-4.2%	0	0	33	33	11	12	5	6
New York	75	75	-0.4%	0	0	56	58	19	17	0	0
Pennsylvania	62	55	13.9%	0	0	54	55	8	0	0	0
East North Central	72	92	-21.6%	1	-3	7	20	12	15	52	60
Illinois	24	35	-31.0%	0	0	-1	12	0	0	25	23
Indiana	23	34	-30.1%	0	0	0	0	1	2	22	32
Michigan	20	23	-15.4%	0	0	8	9	10	13	1	1
Ohio	0	-4	-92.5%	0	-4	-1	0	0	0	1	1
Wisconsin	NM	3	NM	1	1	0	0	0	0	NM	2
West North Central	36	38	-3.7%	20	20	9	10	3	3	4	6
Iowa	0	1	-100.0%	0	0	0	0	0	0	0	1
Kansas	0	0	NM	0	0	0	0	0	0	0	0
Minnesota	32	32	-0.2%	16	15	9	10	3	3	4	4
Missouri	0	0	41.3%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	4	NM	NM	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	315	393	-19.8%	0	0	160	188	10	15	145	190
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	205	265	-22.5%	0	0	104	111	0	0	101	154
Georgia	10	9	20.3%	0	0	0	0	0	0	10	9
Maryland	31	27	17.3%	0	0	31	27	0	0	0	0
North Carolina	55	53	2.0%	0	0	23	30	0	0	31	24
South Carolina	3	4	-21.8%	0	0	1	1	0	0	3	4
Virginia	10	36	-72.8%	0	0	0	21	10	15	0	0
West Virginia	0	-1	-122.1%	0	0	0	-1	0	0	0	0
East South Central	4	4	4.6%	2	2	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	2	2	3.6%	2	2	0	0	0	0	0	0
Mississippi	0	0	-100.0%	0	0	0	0	0	0	0	0
Tennessee	2	2	19.7%	0	0	0	0	0	0	2	2
West South Central	97	153	-36.5%	0	0	5	12	0	0	92	141
Arkansas	0	0	-100.0%	0	0	0	0	0	0	0	0
Louisiana	57	73	-22.0%	0	0	0	0	0	0	57	73
Oklahoma	4	3	38.6%	0	0	4	2	0	0	0	1
Texas	36	77	-52.9%	0	0	2	10	0	0	35	67
Mountain	58	61	-4.2%	3	6	28	27	0	0	28	28
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	10.5%	0	0	1	1	0	0	4	3
Idaho	6	5	17.1%	0	0	0	0	0	0	6	5
Montana	27	26	3.7%	0	0	27	26	0	0	0	0
Nevada	3	2	68.4%	3	2	0	0	0	0	0	0
New Mexico	0	0	-312.8%	0	0	0	0	0	0	0	0
Utah	13	19	-31.2%	0	4	0	0	0	0	13	15
Wyoming	5	5	2.9%	0	0	0	0	0	0	5	5
Pacific Contiguous	79	73	7.7%	0	0	25	26	0	0	54	48
California	70	64	9.1%	0	0	16	17	0	0	54	48
Oregon	4	4	1.4%	0	0	4	4	0	0	0	0
Washington	5	6	-4.9%	0	0	6	6	0	0	0	0
Pacific Noncontiguous	32	31	4.3%	16	11	0	3	16	17	0	0
Alaska	0	0	6.4%	0	0	0	0	0	0	0	0
Hawaii	32	31	4.3%	16	11	0	3	16	17	0	0
U.S. Total	1,029	1,181	-12.8%	42	35	509	571	85	87	394	489

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	1,377	1,404	-1.9%	0	0	1,210	1,249	65	64	103	91
Connecticut	403	438	-7.9%	0	0	403	438	0	0	0	0
Maine	304	287	6.1%	0	0	137	132	65	64	103	91
Massachusetts	634	643	-1.4%	0	0	634	643	0	0	0	0
New Hampshire	36	37	-1.1%	0	0	36	37	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,734	1,736	-0.1%	0	0	1,347	1,388	338	298	50	50
New Jersey	426	448	-5.0%	0	0	270	292	107	107	50	50
New York	666	662	0.5%	0	0	505	512	161	151	0	0
Pennsylvania	642	625	2.8%	0	0	572	584	70	41	0	0
East North Central	655	862	-24.0%	10	-15	62	200	115	122	468	555
Illinois	188	323	-41.7%	0	0	-13	101	0	0	202	221
Indiana	232	302	-23.2%	0	0	0	0	14	16	218	286
Michigan	193	234	-17.8%	0	11	80	103	101	106	12	14
Ohio	-1	-35	-96.6%	-3	-39	-5	-4	0	0	6	8
Wisconsin	43	38	13.6%	12	13	0	0	0	0	30	24
West North Central	338	352	-3.9%	160	176	112	101	25	25	41	50
Iowa	2	11	-77.4%	0	0	0	0	0	0	2	11
Kansas	3	0	NM	0	0	0	0	0	0	3	0
Minnesota	299	300	-0.5%	126	135	112	101	25	25	35	39
Missouri	2	8	-70.7%	2	8	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	32	33	-5.5%	32	33	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,209	3,608	-11.0%	0	0	1,594	1,824	96	155	1,519	1,629
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	2,323	2,396	-3.1%	0	0	1,121	1,114	0	0	1,201	1,282
Georgia	74	82	-9.9%	0	0	0	0	0	0	74	82
Maryland	235	242	-3.2%	0	0	235	242	0	0	0	0
North Carolina	421	525	-19.8%	0	0	206	291	0	0	215	234
South Carolina	33	34	-1.9%	0	0	5	3	0	0	28	31
Virginia	124	338	-63.3%	0	0	27	183	96	155	0	0
West Virginia	0	-10	-97.9%	0	0	0	-10	0	0	0	0
East South Central	45	56	-19.7%	26	37	0	0	0	0	19	19
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	26	37	-30.5%	26	37	0	0	0	0	0	0
Mississippi	2	3	-44.3%	0	0	0	0	0	0	2	3
Tennessee	18	16	10.9%	0	0	0	0	0	0	18	16
West South Central	922	1,171	-21.3%	0	0	83	91	0	0	840	1,080
Arkansas	4	4	4.5%	0	0	0	0	0	0	4	4
Louisiana	484	551	-12.1%	0	0	0	0	0	0	484	551
Oklahoma	34	23	46.3%	0	0	33	18	0	0	0	5
Texas	401	594	-32.5%	0	0	49	73	0	0	352	521
Mountain	492	556	-11.5%	23	38	258	263	0	0	211	255
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	42	40	4.8%	0	0	11	9	0	0	31	32
Idaho	48	49	-2.6%	0	0	0	0	0	0	48	49
Montana	247	251	-1.8%	0	0	247	251	0	0	0	0
Nevada	23	16	44.9%	23	16	0	0	0	0	0	0
New Mexico	0	0	-306.7%	0	0	0	0	0	0	0	0
Utah	106	150	-29.3%	0	22	0	3	0	0	106	125
Wyoming	27	49	-45.3%	0	0	0	0	0	0	27	49
Pacific Contiguous	730	541	34.8%	-3	-4	214	206	0	0	519	338
California	660	466	41.6%	-3	-3	144	131	0	0	519	338
Oregon	29	31	-6.3%	0	0	29	31	0	0	0	0
Washington	41	45	-7.7%	0	0	41	45	0	0	0	0
Pacific Noncontiguous	272	237	14.6%	132	81	2	10	138	145	0	0
Alaska	-2	-2	25.4%	-2	-2	0	0	0	0	0	0
Hawaii	274	239	14.7%	134	83	2	10	138	145	0	0
U.S. Total	9,775	10,523	-7.1%	347	315	4,881	5,333	777	808	3,769	4,067

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	196	167	17.5%	13	16	180	149	2	2	0	0
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0
Maine	132	106	24.5%	0	0	132	106	0	0	0	0
Massachusetts	14	16	-13.9%	NM	4	NM	10	2	1	0	0
New Hampshire	24	24	2.0%	0	0	24	24	0	0	0	0
Rhode Island	9	2	345.6%	0	0	8	2	1	0	0	0
Vermont	16	18	-11.3%	10	12	NM	6	0	0	0	0
Middle Atlantic	404	375	7.6%	0	0	404	375	0	0	0	0
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	201	195	2.9%	0	0	201	195	0	0	0	0
Pennsylvania	202	179	12.7%	0	0	202	179	0	0	0	0
East North Central	1,340	1,429	-6.2%	170	211	1,166	1,215	NM	0	NM	3
Illinois	609	693	-12.1%	NM	1	608	692	NM	0	0	0
Indiana	269	241	11.4%	0	0	269	241	0	0	0	0
Michigan	306	327	-6.6%	117	139	189	189	0	0	0	0
Ohio	71	57	24.2%	NM	1	67	54	0	0	NM	2
Wisconsin	86	111	-22.4%	52	71	33	40	0	0	0	1
West North Central	4,937	4,853	1.7%	1,537	1,682	3,398	3,169	NM	3	0	0
Iowa	1,314	1,556	-15.6%	858	984	455	572	0	0	0	0
Kansas	1,485	1,138	30.6%	135	56	1,350	1,081	0	0	0	0
Minnesota	699	802	-12.9%	167	215	530	585	NM	2	0	0
Missouri	112	83	34.4%	0	0	112	83	0	0	0	0
Nebraska	364	294	23.9%	10	15	354	278	0	0	0	0
North Dakota	762	676	12.8%	302	332	460	344	0	0	0	0
South Dakota	201	305	-34.0%	64	79	137	225	0	0	0	0
South Atlantic	158	95	66.8%	0	0	157	94	0	0	0	0
Delaware	0	0	58.0%	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	31	27	15.1%	0	0	31	27	0	0	0	0
North Carolina	40	0	--	0	0	40	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	86	67	27.7%	0	0	86	67	0	0	0	0
East South Central	NM	1	NM	0	0	NM	1	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	1	NM	0	0	NM	1	0	0	0	0
West South Central	6,664	5,422	22.9%	129	102	6,531	5,316	4	3	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	1,847	1,506	22.6%	111	91	1,736	1,415	0	0	0	0
Texas	4,817	3,915	23.0%	18	11	4,795	3,901	4	3	0	0
Mountain	1,667	1,689	-1.3%	163	171	1,504	1,517	NM	0	0	0
Arizona	39	44	-11.2%	0	0	39	44	0	0	0	0
Colorado	628	732	-14.2%	23	10	605	722	0	0	0	0
Idaho	147	99	48.1%	0	0	147	99	0	0	0	0
Montana	134	168	-20.5%	14	19	120	149	0	0	0	0
Nevada	25	30	-17.7%	0	0	25	30	0	0	0	0
New Mexico	361	262	38.0%	0	0	361	262	NM	0	0	0
Utah	61	77	-20.3%	0	0	61	77	0	0	0	0
Wyoming	272	276	-1.7%	126	142	146	134	0	0	0	0
Pacific Contiguous	1,868	2,296	-18.7%	398	544	1,468	1,751	0	0	0	0
California	985	996	-1.2%	60	64	924	932	0	0	0	0
Oregon	421	616	-31.6%	84	119	338	497	0	0	0	0
Washington	462	684	-32.5%	255	362	207	322	0	0	0	0
Pacific Noncontiguous	56	76	-26.8%	NM	10	50	66	0	0	0	0
Alaska	10	16	-38.7%	NM	10	NM	6	0	0	0	0
Hawaii	46	60	-23.6%	0	0	46	60	0	0	0	0
U.S. Total	17,291	16,404	5.4%	2,417	2,737	14,861	13,654	10	9	NM	4

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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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	2,345	1,840	27.4%	160	183	2,164	1,637	21	19	1	1
Connecticut	NM	9	NM	0	0	NM	9	0	0	0	0
Maine	1,572	1,134	38.6%	0	0	1,572	1,134	0	0	0	0
Massachusetts	158	154	3.0%	40	43	102	95	15	15	1	1
New Hampshire	302	315	-4.1%	0	0	302	315	0	0	0	0
Rhode Island	107	10	NM	0	0	101	5	5	5	0	0
Vermont	199	219	-9.5%	120	140	79	80	0	0	0	0
Middle Atlantic	5,310	5,029	5.6%	0	0	5,309	5,028	0	0	1	1
New Jersey	NM	14	NM	0	0	NM	14	0	0	0	0
New York	2,878	2,704	6.4%	0	0	2,877	2,703	0	0	1	1
Pennsylvania	2,418	2,311	4.7%	0	0	2,418	2,311	0	0	0	0
East North Central	16,703	15,884	5.2%	2,013	1,996	14,644	13,843	NM	6	40	40
Illinois	7,876	7,403	6.4%	9	9	7,865	7,391	NM	3	0	0
Indiana	3,195	3,424	-6.7%	0	0	3,194	3,424	1	1	0	0
Michigan	3,507	3,165	10.8%	1,335	1,312	2,172	1,853	0	0	0	0
Ohio	1,090	847	28.7%	NM	7	1,046	803	3	2	35	35
Wisconsin	1,034	1,045	-1.1%	662	668	367	373	0	0	5	5
West North Central	49,969	42,485	17.6%	16,455	14,781	33,491	27,682	23	22	0	0
Iowa	14,571	13,804	5.6%	9,461	8,733	5,107	5,068	3	3	0	0
Kansas	13,398	10,271	30.4%	1,249	635	12,148	9,636	0	0	0	0
Minnesota	7,538	6,779	11.2%	1,805	1,857	5,713	4,902	20	20	0	0
Missouri	1,252	796	57.2%	0	0	1,252	796	0	0	0	0
Nebraska	3,573	2,589	38.0%	128	132	3,446	2,457	0	0	0	0
North Dakota	7,485	5,623	33.1%	3,136	2,726	4,349	2,896	0	0	0	0
South Dakota	2,152	2,624	-18.0%	675	698	1,476	1,926	0	0	0	0
South Atlantic	1,878	1,295	45.0%	0	0	1,874	1,291	4	4	0	0
Delaware	4	4	3.1%	0	0	0	0	4	4	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	362	347	4.4%	0	0	362	347	0	0	0	0
North Carolina	356	0	--	0	0	356	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1,156	944	22.4%	0	0	1,156	944	0	0	0	0
East South Central	25	28	-10.1%	0	0	25	28	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	25	28	-10.1%	0	0	25	28	0	0	0	0
West South Central	67,163	56,641	18.6%	1,283	1,187	65,851	55,418	29	35	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	17,606	14,450	21.8%	1,093	991	16,513	13,459	0	0	0	0
Texas	49,557	42,190	17.5%	190	195	49,338	41,960	29	35	0	0
Mountain	17,811	17,081	4.3%	1,792	1,700	16,009	15,376	NM	3	2	2
Arizona	461	397	16.2%	0	0	461	397	0	0	0	0
Colorado	6,901	6,830	1.0%	230	76	6,662	6,751	NM	1	2	2
Idaho	1,755	1,878	-6.6%	0	0	1,755	1,878	0	0	0	0
Montana	1,496	1,542	-3.0%	157	167	1,339	1,376	0	0	0	0
Nevada	279	243	14.6%	0	0	279	243	0	0	0	0
New Mexico	3,134	2,600	20.5%	0	0	3,131	2,598	NM	2	0	0
Utah	706	574	23.1%	0	0	706	574	0	0	0	0
Wyoming	3,080	3,016	2.1%	1,404	1,457	1,676	1,559	0	0	0	0
Pacific Contiguous	21,182	23,242	-8.9%	4,378	4,959	16,795	18,273	4	5	4	4
California	10,837	11,280	-3.9%	638	594	10,190	10,677	4	5	4	4
Oregon	4,964	5,804	-14.5%	865	1,090	4,099	4,715	0	0	0	0
Washington	5,381	6,157	-12.6%	2,874	3,276	2,507	2,882	0	0	0	0
Pacific Noncontiguous	594	581	2.3%	75	78	520	503	0	0	0	0
Alaska	116	122	-4.9%	75	78	41	43	0	0	0	0
Hawaii	479	460	4.2%	0	0	479	460	0	0	0	0
U.S. Total	182,980	164,106	11.5%	26,155	24,884	156,682	139,078	95	94	48	49

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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, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	572	598	-4.5%	28	45	441	465	14	14	89	75
Connecticut	64	76	-16.3%	0	0	64	76	0	0	0	0
Maine	229	214	7.1%	0	0	133	131	7	8	89	75
Massachusetts	101	106	-4.8%	0	0	99	104	2	3	0	0
New Hampshire	127	147	-13.5%	10	23	113	122	5	3	0	0
Rhode Island	18	17	5.6%	0	0	18	17	0	0	0	0
Vermont	31	37	-15.5%	17	22	NM	15	0	0	0	0
Middle Atlantic	465	449	3.6%	0	0	351	352	44	37	70	60
New Jersey	80	82	-2.8%	0	0	68	68	13	14	0	0
New York	183	188	-2.7%	0	0	148	156	20	19	15	14
Pennsylvania	202	178	13.1%	0	0	135	128	12	4	54	46
East North Central	457	413	10.7%	62	32	258	230	18	19	119	133
Illinois	40	27	47.0%	2	1	38	26	0	0	0	0
Indiana	34	33	3.2%	23	22	4	4	1	2	6	5
Michigan	198	202	-2.2%	0	0	140	127	11	14	47	62
Ohio	55	54	0.8%	NM	0	36	35	1	1	18	19
Wisconsin	131	97	35.6%	38	9	40	39	5	3	48	47
West North Central	210	240	-12.6%	47	50	91	105	7	15	64	70
Iowa	18	23	-22.7%	NM	2	10	12	4	5	2	5
Kansas	5	6	-17.8%	0	0	5	6	0	0	0	0
Minnesota	172	187	-8.2%	36	38	72	83	2	2	61	65
Missouri	7	15	-52.5%	3	4	4	5	0	7	0	0
Nebraska	8	8	-3.2%	7	7	0	0	1	2	0	0
North Dakota	0	1	-100.0%	0	0	0	0	0	0	0	1
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,561	1,580	-1.1%	143	178	549	539	16	26	853	836
Delaware	5	5	2.9%	0	0	4	4	0	0	NM	1
District of Columbia	2	4	-44.9%	0	0	2	4	0	0	0	0
Florida	361	354	1.9%	4	7	210	200	3	4	143	143
Georgia	399	384	4.0%	0	0	86	67	0	0	312	317
Maryland	50	47	7.2%	0	0	39	35	NM	1	11	11
North Carolina	224	207	8.5%	0	0	107	97	NM	5	116	105
South Carolina	224	207	8.2%	38	34	34	36	0	0	152	137
Virginia	296	373	-20.6%	101	137	66	97	11	16	117	122
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	493	505	-2.3%	7	9	29	36	0	0	457	460
Alabama	263	278	-5.6%	0	0	21	25	0	0	241	254
Kentucky	35	38	-6.3%	7	9	0	1	0	0	28	27
Mississippi	113	108	5.1%	0	0	NM	2	0	0	112	106
Tennessee	82	81	0.9%	0	0	6	8	0	0	75	73
West South Central	494	488	1.3%	0	0	66	60	3	3	425	424
Arkansas	117	109	7.8%	0	0	8	10	1	0	109	99
Louisiana	225	226	-0.3%	0	0	6	6	0	0	219	219
Oklahoma	28	17	61.8%	0	0	NM	1	0	0	27	17
Texas	123	136	-9.1%	0	0	50	43	3	3	71	90
Mountain	69	77	-10.2%	NM	1	55	55	2	2	12	19
Arizona	NM	19	NM	0	0	NM	19	0	0	0	0
Colorado	13	14	-1.5%	0	0	13	14	0	0	0	0
Idaho	24	31	-23.1%	NM	1	11	12	1	1	10	17
Montana	2	1	44.5%	0	0	0	0	0	0	2	1
Nevada	5	4	7.9%	0	0	5	4	0	0	0	0
New Mexico	1	1	-6.1%	0	0	1	1	0	0	0	0
Utah	6	7	-17.5%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	711	778	-8.5%	55	68	388	408	66	77	202	224
California	464	512	-9.3%	9	21	343	359	62	73	50	59
Oregon	86	90	-4.7%	5	6	34	39	3	3	44	43
Washington	161	176	-8.4%	41	42	10	11	NM	1	108	122
Pacific Noncontiguous	27	36	-26.8%	6	3	0	5	21	22	NM	7
Alaska	4	4	-3.5%	0	0	0	0	4	4	NM	0
Hawaii	23	33	-29.6%	6	3	0	5	17	18	0	7
U.S. Total	5,060	5,164	-2.0%	350	387	2,228	2,255	191	214	2,290	2,308

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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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	5,598	5,442	2.9%	413	458	4,209	4,072	126	117	851	796
Connecticut	631	653	-3.3%	0	0	631	653	0	0	0	0
Maine	2,222	2,131	4.3%	0	0	1,303	1,269	69	67	851	796
Massachusetts	908	904	0.4%	0	0	886	882	22	22	0	0
New Hampshire	1,339	1,238	8.1%	208	223	1,098	989	33	26	0	0
Rhode Island	154	157	-1.8%	0	0	154	157	0	0	0	0
Vermont	343	359	-4.3%	204	234	137	123	2	2	0	0
Middle Atlantic	4,270	4,204	1.6%	0	0	3,234	3,254	408	368	628	583
New Jersey	692	733	-5.5%	0	0	566	608	126	125	0	0
New York	1,699	1,653	2.8%	0	0	1,383	1,345	170	160	146	149
Pennsylvania	1,879	1,818	3.3%	0	0	1,285	1,302	112	83	482	434
East North Central	4,338	4,218	2.9%	557	476	2,445	2,358	168	159	1,168	1,225
Illinois	373	360	3.5%	16	17	357	344	0	0	0	0
Indiana	317	330	-4.0%	212	218	37	39	15	15	54	58
Michigan	1,919	1,866	2.9%	0	0	1,332	1,237	105	110	482	518
Ohio	536	548	-2.3%	3	3	344	349	6	6	182	190
Wisconsin	1,193	1,113	7.2%	326	239	374	389	42	27	451	458
West North Central	1,882	1,798	4.7%	417	426	828	760	104	111	533	502
Iowa	140	183	-23.4%	17	16	58	92	31	36	34	39
Kansas	43	44	-1.9%	0	0	43	44	0	0	0	0
Minnesota	1,516	1,378	10.0%	313	315	692	587	17	20	494	456
Missouri	108	109	-1.0%	29	29	35	37	42	40	3	2
Nebraska	72	80	-10.6%	58	66	0	0	14	15	0	0
North Dakota	3	4	-29.1%	0	0	0	0	0	0	3	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	14,710	14,212	3.5%	1,439	1,398	4,962	4,804	161	273	8,147	7,738
Delaware	49	51	-3.4%	0	0	38	39	0	0	12	12
District of Columbia	33	40	-16.7%	0	0	33	40	0	0	0	0
Florida	3,667	3,460	6.0%	59	65	2,059	1,842	35	36	1,514	1,516
Georgia	3,618	3,394	6.6%	0	0	601	531	0	3	3,017	2,861
Maryland	405	405	0.1%	0	0	306	313	9	12	91	80
North Carolina	1,941	1,893	2.6%	0	0	944	917	8	53	989	923
South Carolina	2,053	1,818	12.9%	330	315	335	314	0	0	1,389	1,188
Virginia	2,942	3,152	-6.7%	1,050	1,017	647	808	110	170	1,136	1,157
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,702	4,692	0.2%	67	67	279	276	0	0	4,356	4,350
Alabama	2,533	2,505	1.1%	0	0	205	196	0	0	2,328	2,309
Kentucky	332	352	-5.6%	67	67	5	10	0	0	260	275
Mississippi	1,118	1,143	-2.2%	0	0	7	8	0	0	1,111	1,136
Tennessee	718	692	3.8%	0	0	61	62	0	0	657	630
West South Central	4,586	4,661	-1.6%	0	19	624	643	29	28	3,933	3,971
Arkansas	1,103	1,009	9.2%	0	0	82	81	5	3	1,015	925
Louisiana	2,110	2,146	-1.7%	0	0	61	59	0	0	2,049	2,087
Oklahoma	205	264	-22.3%	0	0	11	11	0	0	194	253
Texas	1,169	1,241	-5.9%	0	19	470	492	24	24	675	706
Mountain	802	806	-0.4%	8	9	516	491	16	20	261	286
Arizona	181	159	13.8%	0	0	181	159	0	0	0	0
Colorado	126	117	7.9%	0	0	126	117	0	0	0	0
Idaho	365	397	-8.0%	8	9	103	109	9	8	246	271
Montana	16	15	6.1%	0	0	0	0	0	0	16	15
Nevada	45	41	8.9%	0	0	45	41	0	0	0	0
New Mexico	13	13	-0.6%	0	0	13	13	0	0	0	0
Utah	55	63	-12.2%	0	0	48	51	8	12	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,711	6,717	-0.1%	553	564	3,640	3,600	637	675	1,881	1,878
California	4,423	4,493	-1.6%	100	165	3,247	3,213	600	639	476	477
Oregon	771	749	2.8%	46	47	306	295	24	24	394	382
Washington	1,517	1,474	2.9%	407	352	87	92	12	12	1,012	1,019
Pacific Noncontiguous	217	299	-27.5%	43	30	0	38	174	183	NM	49
Alaska	30	32	-4.5%	0	0	0	0	30	31	NM	0
Hawaii	187	267	-30.2%	43	30	0	38	144	151	0	49
U.S. Total	47,815	47,049	1.6%	3,497	3,445	20,738	20,295	1,822	1,933	21,758	21,376

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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.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	317	305	3.9%	22	21	296	284	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	-0.1%	0	0	6	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	273	259	5.6%	0	0	273	259	0	0	0	0
New Mexico	1	1	-49.1%	0	0	1	1	0	0	0	0
Utah	38	40	-4.8%	22	21	16	19	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	987	998	-1.0%	66	70	921	928	0	0	0	0
California	972	986	-1.4%	66	70	905	916	0	0	0	0
Oregon	15	12	29.8%	0	0	15	12	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	21	24	-12.5%	0	0	21	24	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	21	24	-12.5%	0	0	21	24	0	0	0	0
U.S. Total	1,325	1,327	-0.1%	88	91	1,237	1,236	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 September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	2,894	2,867	0.9%	198	189	2,696	2,678	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	51	53	-3.9%	0	0	51	53	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,490	2,453	1.5%	0	0	2,490	2,453	0	0	0	0
New Mexico	10	10	-4.9%	0	0	10	10	0	0	0	0
Utah	343	352	-2.4%	198	189	145	163	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	8,906	8,609	3.5%	593	608	8,313	8,001	0	0	0	0
California	8,763	8,483	3.3%	591	605	8,172	7,878	0	0	0	0
Oregon	142	125	13.6%	2	3	141	123	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	188	179	5.2%	0	0	188	179	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	188	179	5.2%	0	0	188	179	0	0	0	0
U.S. Total	11,988	11,655	2.9%	790	797	11,198	10,858	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.17.A. Net Generation from Solar Photovoltaic
by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	335	241	39.0%	125	72	210	169	7	2	117	69	NM	89	NM	1	117	88	9	8	0	0	9	8	83	73
Connecticut	44	33	32.9%	6	3	38	30	0	0	6	2	14	12	0	0	14	12	2	2	0	0	2	2	22	16
Maine	NM	3	NM	NM	0	4	3	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Massachusetts	246	182	35.2%	103	62	143	120	NM	1	100	60	NM	71	NM	1	93	70	6	6	0	0	6	6	44	44
New Hampshire	8	5	56.7%	0	0	8	5	0	0	0	0	2	1	0	0	2	1	1	0	0	0	1	0	5	4
Rhode Island	NM	4	NM	NM	1	5	3	0	0	NM	1	3	1	0	0	3	1	0	0	0	0	0	0	3	1
Vermont	24	13	78.5%	13	6	11	7	5	0	8	6	4	2	0	0	4	2	NM	0	0	0	NM	0	7	5
Middle Atlantic	452	315	43.4%	153	84	299	232	10	6	122	64	153	122	19	12	134	110	NM	14	NM	1	16	13	150	108
New Jersey	274	189	45.0%	122	66	153	123	10	6	93	48	96	81	17	11	79	70	NM	7	NM	0	9	7	65	46
New York	135	95	42.3%	22	11	113	84	0	0	21	11	NM	30	NM	0	43	30	2	1	0	0	2	1	69	53
Pennsylvania	43	31	36.5%	10	6	33	25	0	0	8	5	NM	11	NM	0	12	10	NM	6	NM	1	5	5	16	10
East North Central	105	61	71.7%	69	37	36	24	25	6	44	30	NM	15	NM	0	23	15	2	NM	0	0	2	NM	12	8
Illinois	12	8	46.9%	6	5	6	4	0	0	6	5	4	2	0	0	4	2	0	NM	0	0	0	NM	2	1
Indiana	40	26	53.9%	36	24	4	2	12	4	24	20	2	1	0	0	2	1	0	NM	0	0	0	NM	2	1
Michigan	19	6	203.8%	11	1	8	5	11	1	0	0	5	3	0	0	5	3	0	NM	0	0	0	NM	3	2
Ohio	26	17	49.3%	13	7	13	10	NM	1	11	5	NM	8	NM	0	9	8	1	1	0	0	1	0	3	2
Wisconsin	9	4	127.4%	3	0	5	3	0	0	3	0	2	1	0	0	2	1	1	NM	0	0	1	NM	2	2
West North Central	125	32	291.0%	89	6	36	26	NM	1	86	5	19	14	0	0	18	14	1	1	0	0	1	1	16	12
Iowa	NM	6	NM	NM	0	9	6	NM	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	3	2
Kansas	NM	1	NM	NM	0	2	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Minnesota	84	5	NM	79	1	6	4	NM	0	78	1	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Missouri	25	19	29.1%	6	4	19	16	0	1	6	3	10	9	0	0	10	8	0	0	0	0	0	0	9	7
Nebraska	NM	1	NM	NM	1	1	0	0	0	NM	1	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0
North Dakota	0	0	13.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,076	575	87.3%	913	463	163	112	131	41	768	409	64	53	14	13	49	40	22	17	0	0	22	17	91	55
Delaware	14	11	30.7%	6	5	8	6	NM	1	5	4	NM	2	NM	0	3	2	0	0	0	0	0	0	5	4
District of Columbia	5	3	45.1%	0	0	5	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	2	2
Florida	93	29	221.5%	69	12	24	17	51	7	17	5	NM	7	NM	0	8	7	1	0	0	0	1	0	16	10
Georgia	NM	113	NM	201	97	NM	NM	23	7	178	89	NM	NM	NM	0	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	95	68	40.2%	27	20	68	48	NM	1	25	18	NM	16	NM	1	18	16	3	3	0	0	3	3	47	29
North Carolina	582	342	70.3%	565	328	17	14	41	25	512	291	23	21	13	12	11	10	1	0	0	0	1	0	6	4
South Carolina	26	4	529.8%	13	0	13	4	0	0	13	0	3	1	0	0	3	1	1	NM	0	0	1	NM	9	3
Virginia	38	4	845.8%	32	0	6	4	15	0	17	0	2	1	0	0	2	1	0	NM	0	0	0	NM	4	2
West Virginia	1	1	44.5%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
East South Central	61	21	191.8%	49	10	12	11	6	2	43	8	NM	8	NM	0	8	7	0	0	0	0	0	0	3	3
Alabama	NM	1	NM	20	0	NM	1	4	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Kentucky	4	4	10.6%	2	2	2	2	2	2	0	0	2	1	0	0	2	1	0	0	0	0	0	0	1	1
Mississippi	14	1	NM	13	0	1	1	0	0	13	0	1	0	0	0	1	0	NM	NM	0	0	NM	NM	0	0
Tennessee	22	15	42.4%	14	8	8	8	0	0	14	8	NM	6	NM	0	6	6	NM	0	0	0	NM	0	2	2
West South Central	285	135	110.7%	200	81	84	54	NM	1	199	80	21	13	0	0	21	13	0	0	0	0	0	0	63	41
Arkansas	4	3	17.8%	3	3	1	1	NM	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Louisiana	18	16	7.3%	0	0	18	16	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	17	16
Oklahoma	1	1	15.7%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	262	114	129.0%	197	78	65	37	NM	0	196	78	20	12	0	0	20	12	0	0	0	0	0	0	45	24
Mountain	1,448	1,103	31.3%	1,164	858	284	245	86	73	1,067	775	84	86	11	10	73	76	15	17	0	0	15	17	196	152
Arizona	535	391	36.8%	377	254	157	137	58	41	317	211	NM	42	NM	2	40	40	11	14	0	0	11	14	106	83
Colorado	136	120	13.7%	89	78	47	42	NM	0	87	76	NM	19	NM	2	19	17	0	0	0	0	0	0	28	25
Idaho	52	10	438.4%	50	9	2	1	0	0	50	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	5	1	358.4%	4	0	2	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	383	311	22.9%	354	277	29	35	3	5	344	266	8	14	7	6	1	9	2	2	0	0	2	2	26	24
New Mexico	124	95	30.5%	107	82	18	14	24	27	83	55	6	5	0	0	6	5	0	0	0	0	0	0	11	8
Utah	212	174	21.8%	184	158	28	16	0	0	184	158	6	4	0	0	6	4	1	1	0	0	1	1	22	11
Wyoming	0	0	41.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	3,045	2,448	24.4%	2,015	1,652	1,030	796	56	48	1,942	1,591	250	179	13	12	237	167	173	134	4	1	170	133	623	496
California	2,992	2,417	23.8%	1,994	1,647	998	769	56	47	1,921	1,587	240	170	13	12	227	158	172	133	4	1	168	132	603	480
Oregon	40	21	86.2%	21	5	19	17	NM	1	20	4	8	8	0	0	8	8	2	1	0	0	2	1	9	7
Washington	13	10	28.8%	0	0	13	10	0	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	11	9
Pacific Noncontiguous	104	76	36.0%	19	9	85	67	3	4	15	5	32	25	0	0	32	25	0	0	0	0	0	0	53	42
Alaska	0	0	51.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	104	76	35.9%	19	9	85	67	3	4	15	5	32	25	0	0	32	25	0	0	0	0	0	0	53	42
U.S. Total	7,034	5,007	40.5%	4,795	3,272	2,239	1,735	328	185	4,402	3,036	772	605	59	48	713	556	241	192	6	2	235	190	1,291	989

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	2,759	1,973	39.8%	944	542	1,816	1,432	62	15	876	522	1,013	790	5	4	1,008	786	80	66	0	0	80	66	728	580
Connecticut	375	275	36.2%	45	18	329	257	3	2	43	16	124	104	0	0	124	104	17	12	0	0	17	12	189	140
Maine	41	24	71.0%	8	0	33	24	0	0	8	0	12	8	0	0	12	8	0	0	0	0	0	0	21	15
Massachusetts	2,021	1,491	35.6%	773	467	1,249	1,024	16	12	751	451	803	635	5	4	798	630	58	52	0	0	58	52	393	341
New Hampshire	71	40	75.1%	0	0	71	40	0	0	0	0	21	11	0	0	21	11	4	1	0	0	4	1	45	28
Rhode Island	57	35	63.8%	15	11	42	24	0	0	15	11	21	13	0	0	21	13	0	0	0	0	0	0	22	11
Vermont	194	108	80.0%	103	45	92	63	43	2	59	43	33	20	0	0	33	20	2	0	0	0	2	0	57	43
Middle Atlantic	3,784	2,887	31.0%	1,174	829	2,609	2,058	76	66	936	629	1,329	1,134	145	123	1,183	1,011	159	139	16	11	143	127	1,283	920
New Jersey	2,285	1,778	28.5%	932	663	1,353	1,115	76	66	714	476	852	774	134	116	719	658	90	72	8	4	82	68	552	389
New York	1,133	818	38.5%	169	106	964	712	0	0	164	104	356	260	5	2	351	257	11	11	0	0	11	11	601	444
Pennsylvania	366	292	25.5%	73	60	293	232	0	0	58	49	120	100	7	5	113	96	57	56	8	7	49	49	130	87
East North Central	809	475	70.4%	515	267	294	208	169	37	342	226	184	133	NM	2	182	132	18	11	1	2	16	9	95	67
Illinois	91	68	33.5%	45	38	46	30	2	2	43	36	29	20	0	0	29	20	0	0	0	0	0	0	16	10
Indiana	310	185	67.7%	285	171	25	14	98	23	187	148	12	6	0	0	12	6	1	1	0	0	1	1	13	7
Michigan	132	53	149.7%	61	6	70	46	61	6	0	0	44	26	0	0	44	26	1	1	0	0	1	1	26	20
Ohio	211	139	51.7%	103	50	108	89	9	7	91	40	84	71	NM	2	81	69	7	6	1	2	5	4	22	16
Wisconsin	66	30	118.2%	21	2	44	28	0	0	21	2	16	11	0	0	16	11	9	4	0	0	9	4	19	13
West North Central	930	256	263.6%	630	35	300	221	12	2	617	31	156	121	1	1	155	119	8	5	0	0	8	5	138	97
Iowa	77	48	60.0%	6	0	71	48	6	0	0	0	44	29	0	0	44	29	3	2	0	0	3	2	24	17
Kansas	16	8	93.3%	3	2	13	7	0	0	3	2	4	2	0	0	4	2	0	0	0	0	0	0	9	5
Minnesota	609	36	NM	562	6	48	30	NM	0	557	6	20	14	0	0	20	14	4	2	0	0	4	2	24	14
Missouri	207	158	31.1%	44	24	163	134	2	2	41	21	86	75	1	1	85	73	1	1	0	0	1	1	77	60
Nebraska	19	5	295.5%	14	3	4	2	0	0	14	3	1	1	0	0	1	1	0	0	0	0	0	0	3	1
North Dakota	0	0	13.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	3	1	263.5%	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	8,710	4,507	93.3%	7,278	3,525	1,431	982	1,121	311	6,042	3,104	575	471	115	111	460	361	189	162	0	0	189	162	782	459
Delaware	121	88	37.6%	47	35	74	53	6	5	40	29	24	20	NM	1	22	19	4	3	0	0	4	3	47	31
District of Columbia	40	24	71.5%	0	0	40	24	0	0	0	0	23	11	0	0	23	11	0	0	0	0	0	0	18	13
Florida	796	275	189.5%	575	120	221	155	475	66	97	51	76	67	3	3	73	65	7	4	0	0	7	4	141	86
Georgia	1,903	666	185.8%	1,728	511	175	154	219	58	1,506	451	26	24	NM	2	24	22	139	122	0	0	139	122	12	10
Maryland	818	571	43.2%	220	166	598	405	8	7	207	154	174	142	5	6	168	136	27	28	0	0	27	28	403	241
North Carolina	4,541	2,817	61.2%	4,381	2,687	160	130	298	173	3,980	2,415	205	187	103	100	103	87	6	3	0	0	6	3	52	39
South Carolina	170	28	516.1%	65	3	106	24	0	0	65	3	27	7	0	0	27	7	7	1	0	0	7	1	72	16
Virginia	314	34	835.9%	263	2	51	32	114	2	149	0	19	12	0	0	19	12	0	0	0	0	0	0	31	19
West Virginia	6	5	38.2%	0	0	6	5	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	5	3
East South Central	435	166	162.8%	331	69	104	96	34	8	292	59	78	71	5	2	73	69	1	1	0	0	1	1	31	27
Alabama	163	7	NM	156	0	6	6	20	0	137	0	4	4	0	0	4	4	0	0	0	0	0	0	2	2
Kentucky	35	24	42.0%	14	8	21	16	14	8	0	0	13	11	0	0	13	11	0	0	0	0	0	0	8	6
Mississippi	53	5	981.7%	45	0	8	5	0	0	45	0	5	3	0	0	5	3	0	0	0	0	0	0	3	1
Tennessee	184	130	42.3%	115	61	69	69	0	0	110	58	56	53	5	2	51	50	0	0	0	0	0	0	18	18
West South Central	2,378	999	138.1%	1,657	545	720	454	10	5	1,646	538	183	118	2	1	182	117	0	0	0	0	0	0	539	337
Arkansas	32	24	31.1%	24	19	8	6	NM	1	22	18	3	2	0	0	3	2	0	0	0	0	0	0	5	3
Louisiana	163	148	10.0%	0	0	163	148	0	0	0	0	7	5	0	0	7	5	0	0	0	0	0	0	156	143
Oklahoma	9	7	17.8%	4	4	5	3	4	4	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	2
Texas	2,174	819	165.5%	1,630	522	545	297	NM	0	1,625	521	173	110	2	1	171	108	0	0	0	0	0	0	374	189
Mountain	12,177	8,326	46.2%	9,712	6,168	2,465	2,159	715	601	8,910	5,487	747	766	85	78	662	688	139	160	2	2	137	158	1,667	1,312
Arizona	4,593	3,698	24.2%	3,212	2,444	1,381	1,254	481	398	2,713	2,027	380	391	18	19	362	373	108	133	0	0	108	133	910	749
Colorado	1,156	717	61.2%	741	354	415	363	NM	0	725	343	180	163	15	11	165	152	2	2	0	0	2	2	248	209
Idaho	411	22	NM	398	14	13	8	0	0	398	14	3	3	0	0	3	3	0	0	0	0	0	0	9	5
Montana	25	9	183.4%	13	0	12	9	0	0	13	0	3	3	0	0	3	3	0	0	0	0	0	0	9	6
Nevada	3,133	2,460	27.4%	2,866	2,166	267	294	33	41	2,778	2,075	74	124	53	48	21	76	21	20	2	2	19	18	227	200
New Mexico	1,045	607	72.2%	891	488	154	118	198	163	693	326	58	49	0	0	58	49	1	1	0	0	1	1	95	69
Utah	1,810	811	123.3%	1,589	701	221	109	0	0	1,589	701	48	33	0	0	48	33	6	5	0	0	6	5	166	72
Wyoming	4	3	34.2%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Pacific Contiguous	25,305	19,403	30.4%	16,708	12,765	8,597	6,638	429	374	16,153	12,288	2,004	1,483	104	96	1,900	1,387	1,421	1,096	21	7	1,400	1,089	5,297	4,161
California	24,877	19,168	29.8%	16,531	12,736	8,346	6,432	424	369	15,982	12,265	1,920	1,411	104	96	1,816	1,315	1,409	1,085	21	7	1,387	1,078	5,142	4,038
Oregon	328	157	108.5%	176	28	152	129	5	5	171	24	67	60	0	0	67	60	13	11	0	0	13	11	72	58
Washington	100	77	29.4%	0	1	100	77	0	1	0	0	16	11	0	0	16	11	0	0	0	0	0	0	83	65
Pacific Noncontiguous	898	657	36.7%	150	68	748	589	34	34	116	34	276	216	0	0	276	216	2	2	0	0	2	2	470	372
Alaska	2	1	51.5%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Hawaii	896	656	36.7%	150	68	747	588	34	34	116	34	276	215	0	0	276	215	2	2	0	0	2	2	469	371
U.S. Total	58,185	39,648	46.8%	39,099	24,812	19,086	14,836	2,663	1,455	35,931	22,918	6,545	5,303	465	418	6,080	4,885	2,017	1,641	41	22	1,976	1,619	11,030	8,332

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, September 2017 and 2016 (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	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	7	5	26.1%	7	5	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	7	5	26.1%	7	5	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	105	94	12.0%	0	0	105	94	0	0	0	0
Arizona	82	51	58.7%	0	0	82	51	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	24	43	-44.1%	0	0	24	43	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	237	264	-10.1%	0	0	237	264	0	0	0	0
California	237	264	-10.1%	0	0	237	264	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	349	363	-3.9%	7	5	343	358	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through September 2017 and 2016 (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	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	13	66	-79.6%	13	66	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	13	66	-79.6%	13	66	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	731	761	-4.1%	0	0	731	761	0	0	0	0
Arizona	597	536	11.4%	0	0	597	536	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	133	225	-40.9%	0	0	133	225	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	1,957	2,033	-3.7%	0	0	1,957	2,033	0	0	0	0
California	1,957	2,033	-3.7%	0	0	1,957	2,033	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	2,701	2,860	-5.6%	13	66	2,688	2,794	0	0	0	0

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,046,795	764,765	276,581	361	5,089
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
Year 2015					
January	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
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	63,391	46,761	16,354	12	265
February	47,879	35,522	12,112	10	235
March	48,699	35,716	12,738	9	235
April	44,210	31,495	12,507	5	202
May	50,710	37,277	13,209	6	219
June	58,886	43,798	14,855	7	226
July	69,807	52,067	17,495	8	237
August	65,877	49,106	16,528	8	235
Sept	54,700	39,430	15,035	8	227
Year to Date					
2015	586,768	427,178	156,368	126	3,095
2016	509,911	374,726	132,803	81	2,300
2017	504,158	371,172	130,833	73	2,081
Rolling 12 Months Ending in September					
2016	662,737	487,055	172,361	118	3,204
2017	671,619	492,638	176,077	102	2,801

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	22,810	0	3,795	1,566	17,449
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
Year 2015					
January	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
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	1,503	290	137	54	1,020
February	1,227	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	1,223	264	104	45	811
August	1,244	264	110	40	830
Sept	1,152	216	94	39	803
Year to Date					
2015	12,704	757	1,540	489	9,918
2016	12,556	2,222	996	417	8,921
2017	11,351	2,104	1,001	380	7,866
Rolling 12 Months Ending in September					
2016	16,484	2,496	1,437	563	11,988
2017	15,381	2,861	1,340	536	10,645

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,069,606	764,765	280,377	1,927	22,537
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
Year 2015					
January	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
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	64,894	47,052	16,491	66	1,285
February	49,106	35,730	12,236	54	1,087
March	50,055	35,941	12,884	58	1,172
April	45,426	31,707	12,611	40	1,068
May	51,931	37,483	13,310	40	1,098
June	60,094	44,017	14,937	46	1,094
July	71,029	52,330	17,598	53	1,047
August	67,121	49,370	16,638	49	1,065
Sept	55,852	39,646	15,129	47	1,030
Year to Date					
2015	599,471	427,935	157,908	615	13,013
2016	522,467	376,948	133,799	498	11,221
2017	515,509	373,276	131,833	453	9,947
Rolling 12 Months Ending in September					
2016	679,221	489,550	173,798	681	15,192
2017	687,000	495,499	177,417	638	13,446

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 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, 2007-September 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	82,433	56,910	22,793	250	2,480
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
Year 2015					
January	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
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	1,978	1,459	453	20	45
February	1,570	1,157	362	13	38
March	1,673	1,342	278	16	37
April	1,519	1,188	285	11	36
May	1,751	1,304	394	16	37
June	1,739	1,290	397	14	38
July	1,853	1,296	505	17	35
August	1,724	1,276	392	20	37
Sept	1,724	1,254	417	15	39
Year to Date					
2015	24,084	14,822	8,521	227	513
2016	17,110	12,322	4,300	78	410
2017	15,531	11,564	3,483	142	342
Rolling 12 Months Ending in September					
2016	21,952	16,062	5,252	100	538
2017	20,826	15,380	4,807	171	468

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 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, 2007-September 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	13,462	0	1,303	441	11,718
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
Year 2015					
January	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
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	29	81
March	138	4	10	30	94
April	137	3	11	16	108
May	160	3	14	20	123
June	148	5	15	15	113
July	125	3	14	17	90
August	138	3	12	19	103
Sept	120	4	14	15	87
Year to Date					
2015	2,504	59	883	267	1,295
2016	1,759	52	179	176	1,352
2017	1,309	46	148	200	915
Rolling 12 Months Ending in September					
2016	2,397	55	451	190	1,700
2017	1,827	62	214	269	1,282

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 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, 2007-September 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	95,895	56,910	24,097	691	14,198
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
Year 2015					
January	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
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	2,185	1,471	492	59	162
February	1,705	1,164	381	41	119
March	1,811	1,346	288	46	131
April	1,657	1,190	296	26	144
May	1,911	1,307	408	35	160
June	1,886	1,295	412	29	150
July	1,978	1,299	519	34	125
August	1,862	1,279	404	39	140
Sept	1,844	1,258	431	30	125
Year to Date					
2015	26,587	14,881	9,404	495	1,808
2016	18,868	12,374	4,479	254	1,762
2017	16,839	11,610	3,631	341	1,257
Rolling 12 Months Ending in September					
2016	24,348	16,117	5,704	291	2,237
2017	22,653	15,442	5,021	440	1,751

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	6,036	2,808	2,715	2	512
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
Year 2015					
January	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
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	33	0	13
March	272	214	39	0	18
April	153	110	29	0	13
May	320	264	38	0	18
June	341	282	40	0	19
July	333	271	39	0	23
August	283	226	39	0	19
Sept	261	209	36	0	16
Year to Date					
2015	3,208	2,483	524	1	200
2016	3,361	2,756	430	1	174
2017	2,582	2,095	333	2	152
Rolling 12 Months Ending in September					
2016	4,197	3,392	575	2	227
2017	3,474	2,766	495	2	211

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,262	0	162	11	1,090
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
Year 2015					
January	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
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	52
March	84	1	10	2	72
April	71	0	10	1	60
May	76	1	10	1	65
June	92	1	9	1	81
July	79	1	10	0	68
August	85	2	9	2	71
Sept	74	1	9	2	62
Year to Date					
2015	869	5	81	11	771
2016	812	4	82	7	718
2017	698	7	87	11	593
Rolling 12 Months Ending in September					
2016	1,087	8	110	12	958
2017	985	9	118	12	845

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,299	2,808	2,877	12	1,602
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
Year 2015					
January	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
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	429	301	50	2	75
February	326	218	42	1	65
March	356	215	50	2	90
April	224	110	39	1	73
May	397	265	48	1	83
June	433	283	49	1	100
July	412	272	49	0	91
August	368	228	48	2	90
Sept	335	211	45	2	78
Year to Date					
2015	4,077	2,489	605	13	970
2016	4,173	2,760	512	8	892
2017	3,280	2,102	420	13	745
Rolling 12 Months Ending in September					
2016	5,284	3,400	686	14	1,185
2017	4,459	2,775	613	15	1,056

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 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, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
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
Year 2015					
January	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
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	664,173	330,006	283,390	3,856	46,921
February	571,073	281,778	244,837	3,448	41,011
March	738,794	366,258	325,245	3,831	43,459
April	642,696	327,657	269,357	3,161	42,522
May	725,983	376,050	303,709	3,446	42,778
June	873,003	438,895	386,270	3,774	44,064
July	1,101,510	557,516	493,179	4,173	46,642
August	1,082,389	541,590	492,095	4,169	44,535
Sept	883,227	443,720	394,688	3,898	40,921
Year to Date					
2015	7,617,142	3,604,557	3,496,210	52,931	463,444
2016	8,044,100	3,973,451	3,632,646	36,138	401,865
2017	7,282,849	3,663,470	3,192,771	33,756	392,853
Rolling 12 Months Ending in September					
2016	10,443,533	5,114,149	4,713,119	53,299	562,966
2017	9,408,859	4,708,913	4,131,500	43,921	524,525

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	872,579	0	339,796	35,987	496,796
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
Year 2015					
January	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
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	101,598	3,789	30,607	7,624	59,578
February	91,951	3,216	26,550	6,512	55,672
March	98,597	3,353	29,331	6,529	59,384
April	90,082	3,046	26,033	5,443	55,560
May	90,628	2,954	26,119	5,558	55,997
June	93,512	3,423	27,809	6,090	56,191
July	99,963	4,078	29,271	6,544	60,071
August	97,633	3,905	29,164	6,394	58,171
Sept	93,655	3,643	26,806	5,997	57,210
Year to Date					
2015	697,301	5,916	214,127	34,633	442,625
2016	870,524	29,024	273,521	62,287	505,693
2017	857,619	31,407	251,689	56,689	517,834
Rolling 12 Months Ending in September					
2016	1,108,322	31,168	342,766	73,941	660,447
2017	1,138,960	40,479	335,072	75,345	688,063

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
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
Year 2015					
January	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
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	765,771	333,795	313,997	11,480	106,499
February	663,024	284,994	271,387	9,960	96,683
March	837,391	369,612	354,576	10,360	102,843
April	732,778	330,703	295,390	8,603	98,082
May	816,611	379,005	329,828	9,004	98,775
June	966,516	442,318	414,079	9,864	100,255
July	1,201,473	561,593	522,450	10,716	106,713
August	1,180,022	545,494	521,259	10,562	102,707
Sept	976,882	447,362	421,494	9,895	98,131
Year to Date					
2015	8,314,443	3,610,473	3,710,337	87,565	906,068
2016	8,914,624	4,002,475	3,906,167	98,425	907,557
2017	8,140,468	3,694,877	3,444,460	90,445	910,687
Rolling 12 Months Ending in September					
2016	11,551,855	5,145,317	5,055,885	127,240	1,223,413
2017	10,547,819	4,749,392	4,466,572	119,266	1,212,588

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	166,774	17,442	144,104	4,598	630
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
Year 2015					
January	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
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	23,584	2,207	19,369	1,643	365
February	21,206	2,062	17,335	1,459	350
March	23,155	2,249	18,845	1,669	392
April	21,385	2,091	17,433	1,515	347
May	21,918	2,234	17,938	1,460	286
June	21,971	1,949	18,174	1,533	316
July	22,779	1,989	18,962	1,569	259
August	22,967	2,092	18,999	1,583	294
Sept	21,801	2,001	17,978	1,544	278
Year to Date					
2015	208,972	18,888	167,559	19,126	3,398
2016	204,623	18,376	167,983	15,319	2,945
2017	200,767	18,874	165,032	13,975	2,886
Rolling 12 Months Ending in September					
2016	278,181	24,746	227,805	21,443	4,188
2017	269,701	24,778	222,042	19,100	3,780

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,988	0	386	1,102	501
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
Year 2015					
January	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
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	445	0	278	94	73
February	432	0	269	92	70
March	476	1	306	92	77
April	408	0	221	107	80
May	291	0	133	85	73
June	370	1	185	89	96
July	358	1	204	85	69
August	401	1	208	98	94
Sept	354	1	175	98	80
Year to Date					
2015	1,116	2	455	390	270
2016	3,098	2	1,725	770	601
2017	3,536	5	1,979	840	712
Rolling 12 Months Ending in September					
2016	3,503	3	1,913	895	693
2017	4,601	6	2,593	1,104	898

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.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-September 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	168,762	17,442	144,490	5,699	1,131
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
Year 2015					
January	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
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	24,029	2,207	19,647	1,738	438
February	21,637	2,062	17,604	1,551	420
March	23,631	2,250	19,152	1,761	469
April	21,793	2,091	17,654	1,621	427
May	22,210	2,235	18,071	1,546	359
June	22,342	1,950	18,359	1,622	411
July	23,137	1,990	19,166	1,653	328
August	23,369	2,093	19,207	1,681	388
Sept	22,155	2,001	18,153	1,643	358
Year to Date					
2015	210,088	18,890	168,014	19,516	3,668
2016	207,721	18,379	169,707	16,089	3,545
2017	204,303	18,879	167,011	14,815	3,598
Rolling 12 Months Ending in September					
2016	281,685	24,748	229,718	22,338	4,881
2017	274,302	24,783	224,636	20,204	4,679

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 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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	19,576	553	17,116	1,785	122
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
Year 2015					
January	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
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
Year to Date					
2015	12,388	344	10,255	1,784	5
2016	12,761	349	10,479	1,924	9
2017	12,141	327	9,976	1,832	6
Rolling 12 Months Ending in September					
2016	17,004	457	14,021	2,515	11
2017	16,373	442	13,450	2,474	8

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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	2,219	0	768	1,136	315
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
Year 2015					
January	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
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
Year to Date					
2015	1,477	0	482	840	155
2016	1,688	0	681	846	160
2017	1,529	0	628	742	158
Rolling 12 Months Ending in September					
2016	2,197	0	855	1,133	209
2017	2,073	0	833	1,030	211

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, 2007-September 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	21,796	553	17,885	2,921	437
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
Year 2015					
January	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
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
Year to Date					
2015	13,865	344	10,736	2,624	160
2016	14,449	349	11,160	2,771	169
2017	13,669	327	10,604	2,574	164
Rolling 12 Months Ending in September					
2016	19,201	457	14,876	3,648	220
2017	18,446	442	14,282	3,504	218

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

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2007-September 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	353,025	31,568	132,953	284	188,220
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
Year 2015					
January	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
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	30,150	3,583	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	29,567	3,091	13,202	15	13,258
Year to Date					
2015	307,957	33,416	130,926	407	143,208
2016	271,242	31,814	112,966	382	126,079
2017	283,516	32,551	123,431	343	127,191
Rolling 12 Months Ending in September					
2016	369,935	42,317	153,427	479	173,712
2017	372,257	41,774	159,980	434	170,070

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, 2007-September 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	982,486	0	21,435	1,756	959,296
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
Year 2015					
January	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
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	78,631	888	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	77,354	979	1,940	233	74,202
Year to Date					
2015	710,276	6,953	14,482	2,805	686,036
2016	712,693	8,096	17,398	3,431	683,767
2017	730,328	9,170	18,813	3,124	699,221
Rolling 12 Months Ending in September					
2016	946,379	10,494	22,116	4,341	909,428
2017	987,476	12,025	24,320	4,213	946,919

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, September 2017 and September 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	5	72	-92.0%	1	3	4	69	0	0	NM	0
Connecticut	3	16	-81.0%	0	0	3	16	0	0	0	0
Maine	1	1	-24.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	52	-100.0%	0	0	0	52	0	0	0	0
New Hampshire	1	3	-55.0%	1	3	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	1,588	2,411	-34.0%	0	0	1,577	2,394	0	0	11	16
New Jersey	42	46	-7.3%	0	0	42	46	0	0	0	0
New York	24	58	-59.0%	0	0	18	50	0	0	6	8
Pennsylvania	1,522	2,307	-34.0%	0	0	1,517	2,298	0	0	5	9
East North Central	11,220	12,912	-13.0%	6,597	7,603	4,564	5,249	2	2	57	58
Illinois	2,912	3,382	-14.0%	181	154	2,687	3,185	1	0	43	42
Indiana	2,580	3,018	-15.0%	2,470	2,910	109	106	1	1	0	0
Michigan	1,771	1,933	-8.4%	1,760	1,911	9	19	0	0	1	3
Ohio	2,316	2,746	-16.0%	557	806	1,759	1,939	0	0	0	0
Wisconsin	1,641	1,834	-10.0%	1,629	1,821	0	0	0	0	12	13
West North Central	9,604	9,680	-0.8%	9,506	9,577	0	0	2	3	95	99
Iowa	1,203	1,268	-5.1%	1,164	1,224	0	0	2	2	37	43
Kansas	1,164	1,313	-11.0%	1,164	1,313	0	0	0	0	0	0
Minnesota	1,097	1,186	-7.5%	1,079	1,169	0	0	0	0	19	17
Missouri	3,003	2,914	3.1%	3,003	2,912	0	0	0	2	0	0
Nebraska	1,120	1,172	-4.4%	1,083	1,136	0	0	0	0	37	36
North Dakota	1,906	1,738	9.7%	1,903	1,735	0	0	0	0	3	3
South Dakota	110	89	24.0%	110	89	0	0	0	0	0	0
South Atlantic	7,138	9,518	-25.0%	6,268	8,255	855	1,243	1	1	15	20
Delaware	18	11	62.0%	0	0	18	11	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,302	1,815	-28.0%	1,297	1,775	2	37	0	0	2	3
Georgia	1,521	1,867	-19.0%	1,518	1,865	0	0	0	0	2	2
Maryland	402	632	-36.0%	0	0	401	630	0	0	1	1
North Carolina	987	1,579	-37.0%	981	1,569	NM	6	1	1	2	3
South Carolina	571	665	-14.0%	570	664	0	0	0	0	0	1
Virginia	194	681	-71.0%	171	639	17	33	0	0	7	9
West Virginia	2,144	2,269	-5.5%	1,730	1,743	414	525	0	0	0	0
East South Central	4,483	6,451	-31.0%	4,425	6,123	46	312	0	0	13	16
Alabama	1,112	1,744	-36.0%	1,111	1,743	0	0	0	0	1	1
Kentucky	1,947	2,753	-29.0%	1,947	2,753	0	0	0	0	0	0
Mississippi	202	439	-54.0%	157	127	46	312	0	0	0	0
Tennessee	1,222	1,514	-19.0%	1,210	1,500	0	0	0	0	11	15
West South Central	11,884	12,569	-5.5%	5,475	6,072	6,396	6,480	0	0	13	18
Arkansas	1,387	1,707	-19.0%	1,160	1,468	226	239	0	0	0	1
Louisiana	748	696	7.6%	385	477	364	219	0	0	0	0
Oklahoma	1,254	1,264	-0.8%	1,130	1,119	111	128	0	0	12	17
Texas	8,495	8,902	-4.6%	2,801	3,008	5,695	5,894	0	0	0	0
Mountain	7,912	7,892	0.3%	6,936	6,803	959	1,067	0	0	18	22
Arizona	1,560	1,596	-2.3%	1,560	1,596	0	0	0	0	0	0
Colorado	1,340	1,342	-0.2%	1,340	1,342	0	0	0	0	0	0
Idaho	NM	0	NM	0	0	0	0	0	0	NM	0
Montana	849	953	-11.0%	16	11	833	942	0	0	0	0
Nevada	123	130	-5.3%	79	80	44	50	0	0	0	0
New Mexico	745	724	3.0%	745	724	0	0	0	0	0	0
Utah	1,117	1,070	4.4%	1,070	1,026	38	29	0	0	10	14
Wyoming	2,177	2,076	4.9%	2,125	2,024	44	45	0	0	8	7
Pacific Contiguous	761	735	3.5%	201	210	555	520	0	0	5	5
California	5	5	5.9%	0	0	0	0	0	0	5	5
Oregon	201	210	-4.4%	201	210	0	0	0	0	0	0
Washington	555	521	6.6%	0	0	555	520	0	0	0	0
Pacific Noncontiguous	103	95	8.9%	NM	18	80	73	3	3	0	0
Alaska	35	29	23.0%	NM	18	12	7	3	3	0	0
Hawaii	68	66	2.7%	0	0	68	66	0	0	0	0
U.S. Total	54,700	62,335	-12.0%	39,430	44,665	15,035	17,407	8	8	227	254

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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 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through September 2017 and September 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	720	906	-20.0%	78	122	641	782	0	0	NM	2
Connecticut	73	73	0.0%	0	0	73	73	0	0	0	0
Maine	11	12	-6.4%	0	0	9	9	0	0	NM	2
Massachusetts	559	699	-20.0%	0	0	559	699	0	0	0	0
New Hampshire	78	122	-37.0%	78	122	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	17,883	22,355	-20.0%	0	0	17,763	22,188	0	0	120	168
New Jersey	385	437	-12.0%	0	0	385	437	0	0	0	0
New York	248	684	-64.0%	0	0	184	602	0	0	64	82
Pennsylvania	17,250	21,234	-19.0%	0	0	17,194	21,148	0	0	56	86
East North Central	108,750	109,392	-0.6%	66,569	65,860	41,632	42,992	13	19	536	521
Illinois	26,006	27,625	-5.9%	1,696	1,536	23,904	25,740	8	6	398	343
Indiana	26,392	27,332	-3.4%	25,461	25,916	926	1,405	5	9	0	2
Michigan	18,796	17,706	6.2%	18,624	17,518	159	162	0	4	12	22
Ohio	22,224	22,218	0.0%	5,580	6,511	16,643	15,685	0	0	2	22
Wisconsin	15,332	14,511	5.7%	15,208	14,379	0	0	0	0	124	132
West North Central	87,974	85,928	2.4%	87,091	85,063	0	0	22	25	860	839
Iowa	11,417	10,607	7.6%	11,035	10,189	0	0	17	17	365	400
Kansas	9,625	11,050	-13.0%	9,625	11,050	0	0	0	0	0	0
Minnesota	9,873	9,806	0.7%	9,676	9,684	0	0	1	1	195	121
Missouri	30,131	27,688	8.8%	30,126	27,681	0	0	4	7	0	0
Nebraska	9,872	9,882	-0.1%	9,597	9,587	0	0	0	0	275	295
North Dakota	16,079	15,869	1.3%	16,054	15,844	0	0	0	0	25	24
South Dakota	977	1,027	-4.9%	977	1,027	0	0	0	0	0	0
South Atlantic	71,575	80,726	-11.0%	64,175	70,874	7,240	9,604	10	10	150	238
Delaware	132	220	-40.0%	0	0	132	220	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	13,184	13,343	-1.2%	13,128	13,018	36	299	0	0	21	26
Georgia	13,213	15,245	-13.0%	13,190	15,210	0	0	0	0	24	35
Maryland	2,768	4,695	-41.0%	0	0	2,754	4,681	0	0	14	14
North Carolina	10,813	11,790	-8.3%	10,751	11,690	29	61	8	9	25	30
South Carolina	6,029	6,904	-13.0%	6,025	6,884	0	0	0	0	3	20
Virginia	4,211	6,032	-30.0%	3,986	5,747	160	190	2	1	64	93
West Virginia	21,225	22,496	-5.7%	17,095	18,324	4,130	4,152	0	0	0	20
East South Central	47,634	52,874	-9.9%	45,643	50,349	1,870	2,365	0	0	121	160
Alabama	12,497	13,028	-4.1%	12,486	13,013	0	0	0	0	10	15
Kentucky	21,201	24,314	-13.0%	21,201	24,314	0	0	0	0	0	0
Mississippi	2,950	3,513	-16.0%	1,080	1,148	1,870	2,365	0	0	0	0
Tennessee	10,986	12,020	-8.6%	10,875	11,875	0	0	0	0	111	145
West South Central	97,262	87,851	11.0%	45,720	42,924	51,411	44,765	0	0	131	162
Arkansas	11,620	10,102	15.0%	10,333	8,281	1,282	1,815	0	0	6	7
Louisiana	6,711	6,733	-0.3%	4,016	4,661	2,695	2,072	0	0	0	0
Oklahoma	8,592	8,583	0.1%	7,700	7,543	766	885	0	0	125	155
Texas	70,339	62,432	13.0%	23,671	22,439	46,668	39,994	0	0	0	0
Mountain	68,571	66,259	3.5%	60,839	58,528	7,620	7,577	0	0	112	155
Arizona	12,647	12,204	3.6%	12,647	12,204	0	0	0	0	0	0
Colorado	12,585	12,205	3.1%	12,583	12,198	0	6	0	0	2	1
Idaho	4	4	1.7%	0	0	0	0	0	0	4	4
Montana	6,692	6,691	0.0%	202	185	6,488	6,504	0	0	1	2
Nevada	962	1,031	-6.7%	535	640	427	391	0	0	0	0
New Mexico	8,173	7,267	12.0%	8,173	7,267	0	0	0	0	0	0
Utah	8,968	8,697	3.1%	8,622	8,323	309	291	0	0	37	82
Wyoming	18,540	18,160	2.1%	18,077	17,710	396	385	0	0	68	65
Pacific Contiguous	2,931	2,706	8.3%	895	814	1,988	1,839	0	0	48	53
California	43	47	-8.2%	0	0	0	0	0	0	43	47
Oregon	895	814	9.9%	895	814	0	0	0	0	0	0
Washington	1,993	1,845	8.0%	0	0	1,988	1,839	0	0	5	6
Pacific Noncontiguous	857	914	-6.2%	162	193	668	692	27	27	0	2
Alaska	294	337	-13.0%	162	193	105	118	27	27	0	0
Hawaii	563	577	-2.3%	0	0	563	574	0	0	0	2
U.S. Total	504,158	509,911	-1.1%	371,172	374,726	130,833	132,803	73	81	2,081	2,300

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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, September 2017 and September 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	61	98	-38.0%	7	6	51	90	3	2	NM	1
Connecticut	12	10	30.0%	1	1	11	9	NM	0	0	0
Maine	20	3	547.0%	0	0	19	2	1	1	NM	0
Massachusetts	23	80	-72.0%	NM	0	19	79	2	1	0	0
New Hampshire	3	3	-5.1%	3	3	NM	0	0	1	0	0
Rhode Island	NM	2	NM	0	2	NM	0	0	0	0	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	105	89	17.0%	36	30	64	54	NM	2	3	3
New Jersey	4	2	84.0%	0	0	NM	2	0	0	0	0
New York	60	53	13.0%	35	29	22	20	NM	0	2	2
Pennsylvania	41	34	19.0%	0	0	39	32	1	1	NM	1
East North Central	91	65	40.0%	63	42	27	22	1	0	1	1
Illinois	8	6	28.0%	NM	1	6	5	NM	0	0	0
Indiana	15	12	21.0%	14	12	0	0	0	0	0	1
Michigan	28	16	77.0%	27	15	0	0	0	0	0	0
Ohio	33	24	41.0%	12	7	21	16	0	0	0	0
Wisconsin	8	8	3.1%	7	7	0	0	0	0	NM	0
West North Central	46	38	23.0%	42	37	4	0	0	0	0	0
Iowa	10	10	-1.8%	10	10	NM	0	0	0	0	0
Kansas	12	4	184.0%	12	4	0	0	0	0	0	0
Minnesota	8	2	322.0%	4	2	4	0	0	0	0	0
Missouri	11	14	-21.0%	11	14	NM	0	0	0	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	2	3	-35.0%	2	3	0	0	0	0	0	0
South Dakota	NM	2	NM	NM	2	0	0	NM	0	0	0
South Atlantic	235	181	30.0%	165	105	57	69	8	1	4	6
Delaware	NM	2	NM	0	1	NM	1	0	0	0	0
District of Columbia	0	0	-100.0%	0	0	0	0	0	0	0	0
Florida	68	40	72.0%	65	37	1	1	0	0	NM	2
Georgia	18	7	150.0%	14	4	NM	2	0	0	2	1
Maryland	37	19	99.0%	NM	0	37	18	0	0	0	0
North Carolina	26	23	17.0%	24	21	NM	1	0	0	NM	0
South Carolina	15	10	53.0%	15	7	0	0	0	0	0	2
Virginia	55	60	-9.2%	36	14	10	45	8	0	NM	0
West Virginia	11	21	-47.0%	11	21	0	0	0	0	0	0
East South Central	36	40	-9.8%	35	39	NM	0	0	0	NM	1
Alabama	NM	3	NM	3	3	NM	0	0	0	NM	1
Kentucky	15	14	8.5%	15	14	0	0	0	0	0	0
Mississippi	NM	3	NM	NM	3	0	0	0	0	0	1
Tennessee	16	20	-17.0%	16	19	0	0	0	0	0	0
West South Central	16	24	-33.0%	11	16	5	7	0	0	0	1
Arkansas	3	3	5.8%	3	1	0	2	0	0	0	0
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	1	7	-87.0%	1	7	0	0	0	0	0	0
Texas	10	12	-14.0%	6	6	4	6	0	0	0	0
Mountain	27	32	-15.0%	24	30	3	1	0	0	0	1
Arizona	5	7	-24.0%	5	7	0	0	0	0	0	0
Colorado	NM	1	NM	NM	1	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	2	1	300.0%	NM	0	2	1	0	0	0	0
Nevada	2	2	29.0%	2	1	0	1	0	0	0	0
New Mexico	6	9	-26.0%	6	9	0	0	0	0	0	0
Utah	5	5	-14.0%	5	5	0	0	0	0	0	0
Wyoming	5	7	-35.0%	5	6	0	0	0	0	0	1
Pacific Contiguous	19	20	-4.5%	13	7	1	5	0	0	6	8
California	13	18	-26.0%	8	6	0	4	0	0	5	8
Oregon	4	1	715.0%	4	1	0	0	0	0	0	0
Washington	1	1	-8.5%	NM	0	NM	1	0	0	1	0
Pacific Noncontiguous	1,087	1,033	5.2%	858	818	206	193	1	1	23	21
Alaska	125	101	24.0%	118	96	0	0	NM	0	7	5
Hawaii	962	932	3.2%	740	722	206	193	1	1	16	16
U.S. Total	1,724	1,620	6.4%	1,254	1,128	417	441	15	7	39	44

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

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through September 2017 and September 2016 (Thousand Barrels)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	535	758	-29.0%	69	94	430	627	31	31	6	6
Connecticut	144	169	-15.0%	9	9	134	157	NM	2	0	1
Maine	94	200	-53.0%	0	0	84	191	5	5	5	5
Massachusetts	227	304	-25.0%	13	24	199	268	14	11	1	0
New Hampshire	44	55	-21.0%	34	42	NM	1	9	12	0	0
Rhode Island	18	23	-23.0%	5	13	NM	9	2	1	0	0
Vermont	8	6	30.0%	8	6	0	0	0	0	0	0
Middle Atlantic	1,078	1,563	-31.0%	372	562	642	943	20	18	44	40
New Jersey	57	96	-41.0%	1	2	55	94	0	1	NM	0
New York	647	1,002	-35.0%	370	559	238	404	11	11	28	28
Pennsylvania	374	465	-20.0%	0	1	348	446	9	6	17	13
East North Central	725	823	-12.0%	472	519	237	287	5	4	10	12
Illinois	74	107	-31.0%	12	14	60	92	NM	1	0	0
Indiana	149	160	-6.7%	141	151	0	0	0	0	7	8
Michigan	169	200	-16.0%	164	198	0	0	3	2	1	1
Ohio	281	295	-4.7%	103	101	176	192	1	0	1	2
Wisconsin	52	61	-14.0%	51	56	1	4	0	0	1	1
West North Central	416	382	8.9%	403	370	NM	9	1	2	1	2
Iowa	117	121	-3.9%	115	120	2	1	0	0	0	0
Kansas	79	41	93.0%	79	41	0	0	0	0	0	0
Minnesota	57	44	29.0%	46	35	NM	8	1	1	1	1
Missouri	80	115	-30.0%	80	115	NM	0	0	0	0	0
Nebraska	12	13	-6.9%	12	13	0	0	0	0	0	0
North Dakota	55	41	35.0%	55	40	0	0	0	0	0	1
South Dakota	15	6	160.0%	15	6	0	0	NM	0	0	0
South Atlantic	2,328	3,352	-31.0%	1,804	2,507	403	765	73	11	47	69
Delaware	48	106	-55.0%	0	14	47	91	0	0	0	0
District of Columbia	0	4	-100.0%	0	0	0	0	0	4	0	0
Florida	752	1,122	-33.0%	729	1,090	9	13	0	0	14	19
Georgia	151	177	-15.0%	113	112	NM	41	3	3	14	22
Maryland	194	308	-37.0%	3	2	189	303	1	1	1	2
North Carolina	272	380	-28.0%	248	312	17	61	1	0	6	6
South Carolina	130	175	-26.0%	121	157	2	4	0	0	7	14
Virginia	623	923	-32.0%	434	671	117	243	68	2	4	6
West Virginia	157	157	-0.1%	155	149	2	9	0	0	0	0
East South Central	378	435	-13.0%	362	408	5	11	0	0	11	16
Alabama	51	65	-21.0%	37	41	5	11	0	0	9	13
Kentucky	140	158	-11.0%	140	158	0	0	0	0	0	0
Mississippi	19	26	-29.0%	17	25	0	0	0	0	1	1
Tennessee	168	186	-9.8%	167	185	0	0	0	0	1	1
West South Central	206	224	-7.9%	107	147	94	70	1	1	4	5
Arkansas	62	52	21.0%	23	37	38	13	0	0	1	2
Louisiana	NM	24	NM	NM	21	0	3	0	0	0	0
Oklahoma	18	27	-32.0%	17	26	0	0	0	0	1	1
Texas	113	120	-6.3%	55	63	56	54	1	1	1	2
Mountain	317	334	-5.2%	283	288	33	36	0	0	0	9
Arizona	77	75	2.5%	77	75	0	0	0	0	0	0
Colorado	15	13	14.0%	15	13	0	0	0	0	0	0
Idaho	0	0	-78.0%	0	0	0	0	0	0	0	0
Montana	26	31	-15.0%	NM	1	26	30	0	0	0	0
Nevada	17	20	-13.0%	12	16	6	4	0	0	0	0
New Mexico	66	81	-19.0%	66	81	0	0	0	0	0	0
Utah	52	40	29.0%	50	38	2	2	0	0	0	0
Wyoming	63	74	-14.0%	63	64	0	0	0	0	0	9
Pacific Contiguous	113	151	-25.0%	69	57	22	26	1	1	21	67
California	73	122	-40.0%	51	48	7	12	0	0	14	62
Oregon	14	5	159.0%	14	5	0	0	0	0	0	0
Washington	26	24	9.4%	4	4	15	14	0	0	7	6
Pacific Noncontiguous	9,435	9,087	3.8%	7,624	7,369	1,605	1,524	10	11	197	183
Alaska	1,217	935	30.0%	1,158	889	0	0	4	2	55	44
Hawaii	8,218	8,152	0.8%	6,466	6,480	1,605	1,524	6	9	141	139
U.S. Total	15,531	17,110	-9.2%	11,564	12,322	3,483	4,300	142	78	342	410

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, September 2017 and September 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	2	NM	0	0	0	0	0	0	NM	2
New Jersey	1	1	14.0%	0	0	0	0	0	0	1	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	2	NM	0	0	0	0	0	0	NM	2
East North Central	64	67	-4.8%	35	27	22	36	0	0	7	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	37	26	41.0%	30	22	0	0	0	0	7	5
Ohio	22	36	-39.0%	0	0	22	36	0	0	0	0
Wisconsin	5	5	-5.5%	5	5	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	46	79	-42.0%	44	77	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	44	77	-44.0%	44	77	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	35	-100.0%	0	35	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	35	-100.0%	0	35	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	136	178	-24.0%	131	172	0	0	0	0	5	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	132	174	-24.0%	131	172	0	0	0	0	1	2
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	-13.0%	0	0	0	0	0	0	4	4
Mountain	14	13	4.5%	0	0	14	13	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	14	13	4.5%	0	0	14	13	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	1	-100.0%	0	0	0	0	0	0	0	1
California	0	1	-100.0%	0	0	0	0	0	0	0	1
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	261	376	-30.0%	209	311	36	49	0	0	16	16

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through September 2017 and September 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	14	16	-15.0%	0	0	0	0	0	0	14	16
New Jersey	5	4	22.0%	0	0	0	0	0	0	5	4
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	9	12	-28.0%	0	0	0	0	0	0	9	12
East North Central	631	777	-19.0%	365	408	214	314	0	0	52	54
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	159	-100.0%	0	159	0	0	0	0	0	0
Michigan	390	271	44.0%	338	223	0	1	0	0	52	47
Ohio	214	314	-32.0%	0	0	214	313	0	0	0	1
Wisconsin	27	32	-16.0%	27	26	0	0	0	0	0	6
West North Central	5	4	26.0%	0	0	0	0	2	1	3	3
Iowa	5	4	26.0%	0	0	0	0	2	1	3	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	271	675	-60.0%	251	655	0	0	0	0	20	20
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	251	655	-62.0%	251	655	0	0	0	0	0	0
Georgia	20	20	-0.1%	0	0	0	0	0	0	20	20
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	166	345	-52.0%	166	345	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	166	345	-52.0%	166	345	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	1,376	1,417	-2.9%	1,312	1,347	0	0	0	0	64	69
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,341	1,378	-2.7%	1,312	1,347	0	0	0	0	29	30
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	35	39	-10.0%	0	0	0	0	0	0	35	39
Mountain	119	115	3.6%	0	0	119	115	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	119	115	3.6%	0	0	119	115	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	11	-100.0%	0	0	0	0	0	0	0	11
California	0	11	-100.0%	0	0	0	0	0	0	0	11
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	2,582	3,361	-23.0%	2,095	2,756	333	430	2	1	152	174

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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, September 2017 and September 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	31,369	34,884	-10.0%	NM	292	29,896	33,671	426	462	495	459
Connecticut	8,751	10,381	-16.0%	298	33	8,050	9,954	181	181	222	213
Maine	NM	1,963	NM	0	0	NM	1,828	16	11	155	125
Massachusetts	13,259	14,107	-6.0%	NM	223	12,737	13,554	202	232	102	98
New Hampshire	3,343	3,943	-15.0%	34	33	3,290	3,876	3	11	16	24
Rhode Island	4,027	4,486	-10.0%	0	0	4,003	4,459	24	27	0	0
Vermont	2	3	-34.0%	1	3	0	0	1	0	0	0
Middle Atlantic	104,328	119,578	-13.0%	7,961	9,592	94,872	108,370	540	577	955	1,039
New Jersey	22,984	28,846	-20.0%	NM	234	22,532	28,356	77	85	164	170
New York	36,110	43,323	-17.0%	7,742	9,349	27,797	33,360	404	432	166	182
Pennsylvania	45,234	47,408	-4.6%	9	10	44,542	46,653	59	59	624	687
East North Central	72,665	66,770	8.8%	32,974	27,351	37,375	37,515	643	670	1,673	1,233
Illinois	13,460	13,104	2.7%	NM	1,615	10,809	10,917	165	158	430	413
Indiana	13,020	11,469	14.0%	10,398	9,028	1,931	2,095	80	93	612	253
Michigan	17,345	16,456	5.4%	6,914	5,917	9,719	9,866	246	260	466	413
Ohio	18,316	18,059	1.4%	4,125	4,194	13,992	13,703	131	120	67	42
Wisconsin	10,524	7,682	37.0%	9,481	6,597	924	934	21	39	98	112
West North Central	18,546	13,539	37.0%	16,226	11,445	1,946	1,845	137	105	236	144
Iowa	3,406	1,470	132.0%	3,188	1,379	NM	0	43	39	176	51
Kansas	2,062	2,780	-26.0%	2,058	2,743	0	0	0	0	4	36
Minnesota	5,874	3,223	82.0%	4,934	2,535	868	627	36	32	36	29
Missouri	4,995	4,478	12.0%	3,849	3,216	NM	1,218	58	34	10	11
Nebraska	588	258	128.0%	587	257	0	0	1	1	0	0
North Dakota	915	787	16.0%	905	769	0	0	0	0	10	17
South Dakota	704	546	29.0%	704	546	0	0	0	0	0	0
South Atlantic	228,100	220,649	3.4%	180,021	175,491	45,510	42,604	591	610	1,979	1,944
Delaware	4,276	5,749	-26.0%	43	68	3,806	5,248	0	0	427	432
District of Columbia	69	55	27.0%	0	0	0	0	69	55	0	0
Florida	112,613	109,465	2.9%	103,782	100,883	8,220	7,875	9	16	601	690
Georgia	33,945	31,861	6.5%	25,322	24,636	8,365	7,010	0	0	258	214
Maryland	6,525	5,925	10.0%	0	0	5,984	5,364	500	528	41	33
North Carolina	24,781	24,225	2.3%	21,218	19,950	3,505	4,219	5	6	53	51
South Carolina	12,242	13,674	-10.0%	10,632	11,293	1,549	2,361	0	1	61	19
Virginia	31,359	28,444	10.0%	18,697	18,556	12,298	9,497	6	5	358	387
West Virginia	2,288	1,252	83.0%	327	105	1,783	1,029	0	0	179	118
East South Central	78,786	90,399	-13.0%	52,687	59,353	25,056	30,043	59	89	983	913
Alabama	34,977	39,397	-11.0%	12,256	11,795	22,236	27,119	0	0	486	483
Kentucky	6,838	5,492	25.0%	5,958	4,796	813	612	0	0	67	84
Mississippi	29,852	36,404	-18.0%	27,678	33,904	1,991	2,311	0	0	183	190
Tennessee	7,119	9,105	-22.0%	6,796	8,857	17	1	59	89	247	157
West South Central	199,565	225,444	-11.0%	70,253	81,638	101,248	110,842	311	410	27,754	32,554
Arkansas	10,495	8,718	20.0%	4,942	4,553	5,447	4,057	0	31	106	76
Louisiana	36,458	40,863	-11.0%	22,415	25,635	2,878	2,151	NM	63	11,149	13,014
Oklahoma	21,780	26,097	-17.0%	12,516	17,291	9,077	8,711	0	0	187	95
Texas	130,832	149,766	-13.0%	30,379	34,158	83,846	95,923	295	315	16,312	19,369
Mountain	65,160	67,898	-4.0%	48,450	46,588	15,450	20,161	198	212	1,063	937
Arizona	24,842	28,655	-13.0%	15,066	14,404	9,721	14,179	55	72	0	0
Colorado	9,017	6,593	37.0%	7,187	5,568	1,801	1,002	0	0	29	23
Idaho	2,054	2,721	-25.0%	1,204	1,426	792	1,212	13	20	45	63
Montana	533	503	5.8%	411	423	121	79	0	0	1	2
Nevada	17,562	17,028	3.1%	15,986	15,503	1,310	1,304	22	22	244	198
New Mexico	6,651	7,051	-5.7%	5,084	4,708	1,519	2,290	48	52	0	0
Utah	4,058	5,024	-19.0%	3,397	4,494	187	96	60	46	415	389
Wyoming	444	324	37.0%	116	62	0	0	0	0	328	262
Pacific Contiguous	82,103	90,712	-9.5%	32,016	37,673	43,335	46,108	994	1,088	5,757	5,842
California	65,860	67,597	-2.6%	23,628	25,077	35,580	35,687	977	1,052	5,675	5,781
Oregon	9,127	13,187	-31.0%	3,851	6,827	5,223	6,308	17	26	35	27
Washington	7,116	9,927	-28.0%	4,537	5,770	2,532	4,112	0	11	47	34
Pacific Noncontiguous	2,605	2,168	20.0%	2,580	2,150	0	0	0	0	25	18
Alaska	2,605	2,168	20.0%	2,580	2,150	0	0	0	0	25	18
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	883,227	932,041	-5.2%	443,720	451,574	394,688	431,159	3,898	4,223	40,921	45,086

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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 September 2017 and September 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	281,465	310,652	-9.4%	3,430	2,994	270,150	299,446	3,510	4,023	4,376	4,189
Connecticut	83,801	97,076	-14.0%	552	308	79,789	93,096	1,479	1,679	1,981	1,992
Maine	16,498	19,890	-17.0%	0	0	15,101	18,585	115	108	1,283	1,196
Massachusetts	127,326	128,834	-1.2%	NM	2,226	122,125	123,794	1,699	1,974	964	841
New Hampshire	21,208	26,433	-20.0%	329	451	20,699	25,751	31	71	149	160
Rhode Island	32,619	38,407	-15.0%	0	0	32,435	38,220	183	186	0	0
Vermont	13	12	6.5%	10	9	0	0	3	3	0	0
Middle Atlantic	857,554	997,811	-14.0%	73,779	90,889	770,742	893,386	4,689	5,056	8,345	8,480
New Jersey	212,183	249,952	-15.0%	NM	2,034	208,271	245,742	727	744	1,413	1,431
New York	309,786	363,297	-15.0%	71,959	88,777	232,800	269,134	3,452	3,843	1,575	1,542
Pennsylvania	335,586	384,562	-13.0%	48	78	329,671	378,510	510	468	5,356	5,506
East North Central	611,279	677,367	-9.8%	268,168	308,861	320,090	351,067	5,621	5,840	17,401	11,599
Illinois	123,655	120,423	2.7%	17,111	11,687	101,377	103,496	1,478	1,401	3,689	3,839
Indiana	107,295	114,733	-6.5%	84,960	92,177	13,716	19,738	754	764	7,865	2,055
Michigan	146,894	179,761	-18.0%	54,807	72,379	85,846	100,823	2,124	2,355	4,118	4,203
Ohio	160,597	165,069	-2.7%	46,939	44,829	112,038	119,105	1,008	819	613	315
Wisconsin	72,837	97,382	-25.0%	64,352	87,789	7,113	7,905	257	500	1,117	1,187
West North Central	137,808	148,831	-7.4%	119,316	124,191	15,541	21,174	1,111	1,301	1,841	2,165
Iowa	21,064	18,763	12.0%	19,685	17,832	NM	0	336	367	1,043	564
Kansas	17,793	16,839	5.7%	17,639	16,610	0	0	0	0	154	230
Minnesota	42,537	56,126	-24.0%	35,345	44,865	6,335	9,672	398	503	459	1,086
Missouri	40,020	39,323	1.8%	30,324	27,279	9,205	11,502	370	422	121	120
Nebraska	4,653	4,498	3.4%	4,645	4,481	0	0	8	10	0	8
North Dakota	6,789	7,229	-6.1%	6,725	7,071	0	0	0	0	64	158
South Dakota	4,953	6,053	-18.0%	4,953	6,053	0	0	0	0	0	0
South Atlantic	1,876,124	1,910,246	-1.8%	1,515,105	1,524,510	337,686	364,610	4,832	5,095	18,500	16,030
Delaware	42,358	46,641	-9.2%	138	562	38,569	42,344	0	0	3,651	3,734
District of Columbia	542	472	15.0%	0	0	0	0	542	472	0	0
Florida	920,235	934,595	-1.5%	852,771	845,648	61,673	82,941	102	135	5,689	5,870
Georgia	290,276	304,642	-4.7%	219,604	231,224	67,685	71,343	0	0	2,986	2,075
Maryland	43,661	48,476	-9.9%	0	0	39,240	43,793	4,094	4,387	328	296
North Carolina	214,171	229,829	-6.8%	184,902	198,588	28,734	30,729	57	55	480	458
South Carolina	100,331	99,966	0.4%	88,042	80,823	11,685	18,912	2	6	602	225
Virginia	254,418	237,131	7.3%	168,297	166,384	82,796	67,791	36	40	3,288	2,916
West Virginia	10,131	8,494	19.0%	1,351	1,281	7,304	6,757	0	0	1,476	455
East South Central	683,555	729,069	-6.2%	466,905	479,259	206,863	240,843	663	708	9,124	8,258
Alabama	287,196	312,703	-8.2%	98,893	93,067	183,540	214,926	0	0	4,764	4,710
Kentucky	65,831	52,837	25.0%	62,152	47,026	2,934	5,009	0	0	745	802
Mississippi	266,590	292,152	-8.7%	244,726	269,704	20,275	20,898	21	0	1,567	1,549
Tennessee	63,938	71,376	-10.0%	61,134	69,462	114	9	642	708	2,047	1,197
West South Central	1,722,345	1,987,801	-13.0%	578,554	722,895	868,119	971,340	3,023	3,647	272,651	289,919
Arkansas	100,115	105,509	-5.1%	39,598	44,403	59,498	59,733	0	339	1,019	1,035
Louisiana	312,566	382,243	-18.0%	181,018	228,286	23,687	36,709	451	581	107,411	116,667
Oklahoma	185,137	221,156	-16.0%	118,397	155,382	65,316	64,760	0	0	1,424	1,014
Texas	1,124,527	1,278,893	-12.0%	239,541	294,824	719,617	810,138	2,571	2,727	162,798	171,203
Mountain	517,117	594,495	-13.0%	397,064	443,276	108,906	139,929	1,634	1,819	9,513	9,470
Arizona	173,450	213,489	-19.0%	115,439	126,656	57,536	86,312	475	521	0	0
Colorado	74,037	75,011	-1.3%	60,372	62,232	13,414	12,518	0	0	251	261
Idaho	15,038	20,052	-25.0%	8,668	12,126	5,809	7,293	127	142	433	491
Montana	3,905	4,327	-9.7%	3,159	3,618	735	693	0	0	11	16
Nevada	150,209	161,940	-7.2%	137,023	148,403	11,115	11,457	183	210	1,888	1,870
New Mexico	58,984	63,470	-7.1%	39,806	42,663	18,746	20,332	419	463	14	12
Utah	37,539	52,201	-28.0%	31,641	46,375	1,537	1,311	430	484	3,930	4,031
Wyoming	3,955	4,005	-1.3%	956	1,202	13	12	0	0	2,985	2,791
Pacific Contiguous	576,155	666,444	-14.0%	221,932	255,399	294,675	350,850	8,652	8,644	50,895	51,552
California	470,546	525,919	-11.0%	167,681	181,574	244,205	285,080	8,483	8,424	50,178	50,841
Oregon	55,518	78,596	-29.0%	23,633	36,544	31,412	41,529	127	154	347	369
Washington	50,091	61,929	-19.0%	30,619	37,281	19,059	24,240	43	66	371	341
Pacific Noncontiguous	19,446	21,385	-9.1%	19,217	21,177	0	0	21	4	208	204
Alaska	19,446	21,385	-9.1%	19,217	21,177	0	0	21	4	208	204
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,282,849	8,044,100	-9.5%	3,663,470	3,973,451	3,192,771	3,632,646	33,756	36,138	392,853	401,865

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

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, September 2017 and September 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	924	975	-5.3%	0	0	898	959	25	16	0	0
Connecticut	NM	40	NM	0	0	NM	40	0	0	0	0
Maine	NM	63	NM	0	0	NM	63	0	0	0	0
Massachusetts	346	365	-5.4%	0	0	346	365	0	0	0	0
New Hampshire	91	118	-23.0%	0	0	66	102	25	16	0	0
Rhode Island	367	353	3.9%	0	0	367	353	0	0	0	0
Vermont	NM	37	NM	0	0	NM	37	0	0	0	0
Middle Atlantic	4,277	4,180	2.3%	0	0	4,073	4,017	NM	65	117	99
New Jersey	656	681	-3.7%	0	0	630	655	NM	26	0	0
New York	1,269	1,344	-5.6%	0	0	1,269	1,344	0	0	0	0
Pennsylvania	2,353	2,156	9.1%	0	0	2,173	2,018	NM	39	117	99
East North Central	5,171	4,519	14.0%	639	513	4,479	3,977	39	11	NM	18
Illinois	967	727	33.0%	33	24	934	704	0	0	0	0
Indiana	700	561	25.0%	595	479	106	81	0	0	NM	1
Michigan	1,712	1,576	8.6%	0	0	1,712	1,576	0	0	0	0
Ohio	850	786	8.1%	0	0	850	786	0	0	0	0
Wisconsin	942	868	8.5%	NM	11	878	829	39	11	15	17
West North Central	972	1,017	-4.4%	294	294	678	722	0	0	0	0
Iowa	224	239	-6.4%	0	0	224	239	0	0	0	0
Kansas	114	119	-4.9%	0	0	114	119	0	0	0	0
Minnesota	315	339	-7.0%	NM	73	246	266	0	0	0	0
Missouri	167	176	-4.8%	NM	78	NM	98	0	0	0	0
Nebraska	152	144	5.5%	152	144	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	3,612	3,510	2.9%	342	347	3,037	2,855	NM	147	146	161
Delaware	109	104	4.6%	0	0	NM	93	0	0	NM	11
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	532	604	-12.0%	92	133	440	469	0	1	0	1
Georgia	284	406	-30.0%	0	0	266	380	0	0	18	26
Maryland	207	221	-6.2%	0	0	157	156	NM	65	0	0
North Carolina	885	692	28.0%	0	0	865	631	NM	62	0	0
South Carolina	391	361	8.3%	242	210	NM	28	0	0	NM	123
Virginia	1,205	1,122	7.4%	8	4	1,179	1,098	NM	20	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	437	564	-22.0%	172	225	266	338	0	0	0	0
Alabama	NM	113	NM	0	0	NM	113	0	0	0	0
Kentucky	179	256	-30.0%	172	225	7	31	0	0	0	0
Mississippi	NM	29	NM	0	0	NM	29	0	0	0	0
Tennessee	152	165	-8.0%	0	0	152	165	0	0	0	0
West South Central	1,236	1,202	2.8%	0	0	1,199	1,159	37	43	0	0
Arkansas	128	134	-4.1%	0	0	128	134	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	21	NM	0	0	NM	21	0	0	0	0
Texas	1,077	1,047	2.9%	0	0	1,040	1,004	37	43	0	0
Mountain	519	524	-1.0%	NM	20	466	457	34	47	0	0
Arizona	NM	69	NM	0	0	NM	69	0	0	0	0
Colorado	NM	106	NM	0	0	NM	106	0	0	0	0
Idaho	71	80	-12.0%	NM	20	NM	46	19	15	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	128	120	7.1%	0	0	128	120	0	0	0	0
New Mexico	NM	2	NM	0	0	NM	2	0	0	0	0
Utah	157	146	7.4%	0	0	142	114	15	32	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,583	5,197	-12.0%	537	610	2,882	3,306	1,164	1,281	0	0
California	3,807	4,379	-13.0%	174	266	2,501	2,877	1,133	1,236	0	0
Oregon	455	522	-13.0%	117	144	306	333	NM	45	0	0
Washington	321	295	8.9%	246	200	NM	96	0	0	0	0
Pacific Noncontiguous	70	69	1.4%	0	0	0	0	70	69	0	0
Alaska	70	69	1.4%	0	0	0	0	70	69	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,801	21,757	0.2%	2,001	2,010	17,978	17,792	1,544	1,678	278	278

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through September 2017 and September 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	8,205	8,554	-4.1%	0	0	8,030	8,407	175	146	0	0
Connecticut	329	361	-8.7%	0	0	329	361	0	0	0	0
Maine	511	548	-6.7%	0	0	511	548	0	0	0	0
Massachusetts	3,214	3,101	3.6%	0	0	3,214	3,101	0	0	0	0
New Hampshire	773	1,046	-26.0%	0	0	597	900	175	146	0	0
Rhode Island	3,099	3,174	-2.4%	0	0	3,099	3,174	0	0	0	0
Vermont	278	323	-14.0%	0	0	278	323	0	0	0	0
Middle Atlantic	40,071	40,489	-1.0%	0	0	38,192	38,817	719	634	1,159	1,038
New Jersey	5,780	6,071	-4.8%	0	0	5,551	5,844	229	227	0	0
New York	12,010	11,867	1.2%	0	0	12,010	11,867	0	0	0	0
Pennsylvania	22,281	22,551	-1.2%	0	0	20,632	21,106	490	407	1,159	1,038
East North Central	48,043	46,918	2.4%	5,939	5,217	41,655	41,407	272	112	176	183
Illinois	9,323	9,632	-3.2%	316	314	9,007	9,318	0	0	0	0
Indiana	6,402	5,618	14.0%	5,524	4,795	873	815	0	0	NM	9
Michigan	15,653	15,031	4.1%	0	0	15,653	15,031	0	0	0	0
Ohio	8,041	7,875	2.1%	0	0	8,041	7,875	0	0	0	0
Wisconsin	8,624	8,762	-1.6%	NM	108	8,080	8,368	272	112	171	174
West North Central	8,092	8,394	-3.6%	2,614	2,598	5,478	5,796	0	0	0	0
Iowa	1,258	1,904	-34.0%	0	0	1,258	1,904	0	0	0	0
Kansas	1,056	942	12.0%	0	0	1,056	942	0	0	0	0
Minnesota	2,928	2,723	7.5%	640	567	2,287	2,156	0	0	0	0
Missouri	1,551	1,424	8.9%	674	630	877	794	0	0	0	0
Nebraska	1,300	1,400	-7.2%	1,300	1,400	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	34,027	34,718	-2.0%	3,486	3,387	28,096	28,114	894	1,494	1,551	1,724
Delaware	1,010	1,035	-2.4%	0	0	898	925	0	0	112	111
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,321	5,872	-9.4%	1,184	1,263	4,137	4,594	0	6	0	9
Georgia	2,871	3,616	-21.0%	0	0	2,646	3,229	0	0	226	386
Maryland	2,027	1,999	1.4%	0	0	1,461	1,414	566	585	0	0
North Carolina	8,057	8,001	0.7%	0	0	7,899	7,288	158	713	0	0
South Carolina	3,762	3,580	5.1%	2,247	2,083	302	280	0	0	1,214	1,217
Virginia	10,979	10,616	3.4%	56	42	10,753	10,385	170	190	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,128	4,047	2.0%	1,601	1,603	2,527	2,444	0	0	0	0
Alabama	835	805	3.7%	0	0	835	805	0	0	0	0
Kentucky	1,722	1,825	-5.6%	1,601	1,603	120	222	0	0	0	0
Mississippi	158	138	15.0%	0	0	158	138	0	0	0	0
Tennessee	1,414	1,279	10.0%	0	0	1,414	1,279	0	0	0	0
West South Central	11,516	11,174	3.1%	0	0	11,147	10,781	369	393	0	0
Arkansas	1,195	1,105	8.1%	0	0	1,195	1,105	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	284	271	4.9%	0	0	284	271	0	0	0	0
Texas	10,037	9,798	2.4%	0	0	9,668	9,405	369	393	0	0
Mountain	4,819	4,849	-0.6%	167	184	4,319	4,232	333	434	0	0
Arizona	675	640	5.5%	0	0	675	640	0	0	0	0
Colorado	813	982	-17.0%	0	0	813	982	0	0	0	0
Idaho	628	744	-16.0%	167	184	316	422	146	137	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,189	1,108	7.3%	0	0	1,189	1,108	0	0	0	0
New Mexico	NM	22	NM	0	0	NM	22	0	0	0	0
Utah	1,489	1,354	9.9%	0	0	1,301	1,058	188	296	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	41,304	44,919	-8.0%	5,066	5,388	25,588	27,985	10,650	11,547	0	0
California	33,946	37,598	-9.7%	1,450	2,194	22,183	24,239	10,313	11,165	0	0
Oregon	4,135	4,447	-7.0%	1,093	1,229	2,705	2,836	337	382	0	0
Washington	3,223	2,874	12.0%	2,523	1,965	700	909	0	0	0	0
Pacific Noncontiguous	561	560	0.3%	0	0	0	0	561	560	0	0
Alaska	561	560	0.3%	0	0	0	0	561	560	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	200,767	204,623	-1.9%	18,874	18,376	165,032	167,983	13,975	15,319	2,886	2,945

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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, September 2017 and September 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	289	318	-9.1%	0	0	273	301	16	17	0	0
Connecticut	93	108	-14.0%	0	0	93	108	0	0	0	0
Maine	25	26	-3.5%	0	0	9	9	16	17	0	0
Massachusetts	160	173	-7.5%	0	0	160	173	0	0	0	0
New Hampshire	11	10	6.4%	0	0	11	10	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	443	436	1.5%	0	0	354	343	90	94	0	0
New Jersey	119	120	-0.7%	0	0	92	90	27	29	0	0
New York	164	169	-3.0%	0	0	123	122	41	47	0	0
Pennsylvania	160	147	8.6%	0	0	139	130	21	17	0	0
East North Central	18	19	-7.4%	3	3	0	0	15	16	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-17.0%	0	0	0	0	1	1	0	0
Michigan	14	15	-4.5%	0	0	0	0	14	15	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-17.0%	3	3	0	0	0	0	0	0
West North Central	52	56	-7.8%	39	40	13	15	NM	1	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	52	56	-7.8%	39	40	13	15	NM	1	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	399	461	-13.0%	0	0	355	419	43	42	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	295	319	-7.7%	0	0	295	319	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	60	51	17.0%	0	0	60	51	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	43	90	-52.0%	0	0	0	48	43	42	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	-28.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-28.0%	0	0	0	0	0	0	1	1
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	62	65	-3.7%	0	0	62	65	0	0	0	0
California	39	41	-6.0%	0	0	39	41	0	0	0	0
Oregon	9	9	1.3%	0	0	9	9	0	0	0	0
Washington	14	14	-0.5%	0	0	14	14	0	0	0	0
Pacific Noncontiguous	35	41	-13.0%	0	0	0	0	35	41	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	35	41	-13.0%	0	0	0	0	35	41	0	0
U.S. Total	1,299	1,397	-7.1%	41	43	1,057	1,142	200	210	1	1

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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 September 2017 and September 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	2,726	2,811	-3.0%	0	0	2,573	2,671	153	140	0	0
Connecticut	935	1,002	-6.6%	0	0	935	1,002	0	0	0	0
Maine	239	225	6.1%	0	0	86	85	153	140	0	0
Massachusetts	1,458	1,494	-2.4%	0	0	1,458	1,494	0	0	0	0
New Hampshire	94	90	3.8%	0	0	94	90	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	4,047	4,041	0.1%	0	0	3,229	3,176	819	866	0	0
New Jersey	1,073	1,070	0.3%	0	0	812	809	262	261	0	0
New York	1,490	1,516	-1.7%	0	0	1,123	1,099	367	418	0	0
Pennsylvania	1,484	1,455	2.0%	0	0	1,294	1,268	190	187	0	0
East North Central	181	188	-4.0%	27	29	0	0	153	159	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	13	13	0.1%	0	0	0	0	13	13	0	0
Michigan	140	146	-4.1%	0	0	0	0	140	146	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	27	29	-5.4%	27	29	0	0	0	0	0	0
West North Central	474	486	-2.5%	300	320	174	158	0	8	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	474	486	-2.5%	300	320	174	158	0	8	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	3,829	4,360	-12.0%	0	0	3,438	3,938	392	422	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	2,904	3,022	-3.9%	0	0	2,904	3,022	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	467	483	-3.3%	0	0	467	483	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	458	855	-46.0%	0	0	66	433	392	422	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	9	-38.0%	0	0	0	0	0	0	6	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	6	9	-38.0%	0	0	0	0	0	0	6	9
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	2	-80.0%	0	0	0	2	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	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	2	-80.0%	0	0	0	2	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	563	535	5.2%	0	0	563	535	0	0	0	0
California	362	326	11.0%	0	0	362	326	0	0	0	0
Oregon	81	85	-4.3%	0	0	81	85	0	0	0	0
Washington	119	124	-3.7%	0	0	119	124	0	0	0	0
Pacific Noncontiguous	315	329	-4.2%	0	0	0	0	315	329	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	315	329	-4.2%	0	0	0	0	315	329	0	0
U.S. Total	12,141	12,761	-4.9%	327	349	9,976	10,479	1,832	1,924	6	9

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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, September 2017 and September 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	4,448	4,827	-7.9%	406	658	3,615	3,797	1	1	426	371
Connecticut	NM	460	NM	0	0	NM	460	0	0	0	0
Maine	1,909	1,755	8.8%	0	0	1,483	1,384	0	0	426	371
Massachusetts	NM	186	NM	0	0	NM	186	0	0	0	0
New Hampshire	1,597	1,946	-18.0%	157	341	1,439	1,604	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	417	480	-13.0%	249	317	NM	163	0	1	0	0
Middle Atlantic	1,055	1,050	0.6%	0	0	510	520	0	0	546	530
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	594	597	-0.5%	0	0	510	519	0	0	84	77
Pennsylvania	462	453	2.0%	0	0	0	0	0	0	462	453
East North Central	2,062	1,712	20.0%	434	151	1,038	912	0	0	590	649
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,289	1,230	4.8%	0	0	1,026	900	0	0	263	330
Ohio	92	96	-4.3%	0	0	12	12	0	0	80	84
Wisconsin	681	386	76.0%	434	151	0	0	0	0	247	234
West North Central	929	1,033	-10.0%	NM	191	481	519	14	37	273	287
Iowa	6	1	950.0%	0	0	0	0	6	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	923	997	-7.4%	NM	191	481	519	9	1	273	287
Missouri	0	36	-100.0%	0	0	0	0	0	36	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,310	10,790	-4.4%	1,698	2,063	3,534	3,327	0	13	5,078	5,388
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	1,694	1,540	10.0%	0	0	1,021	885	0	0	672	655
Georgia	2,827	2,747	2.9%	0	0	961	650	0	0	1,866	2,097
Maryland	56	70	-21.0%	0	0	0	0	0	13	56	57
North Carolina	1,390	1,370	1.4%	0	0	784	826	0	0	606	544
South Carolina	1,545	1,619	-4.6%	159	131	506	572	0	0	879	915
Virginia	2,799	3,444	-19.0%	1,538	1,931	NM	393	0	0	999	1,119
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,780	2,898	-4.1%	0	0	192	226	0	0	2,588	2,672
Alabama	1,762	1,890	-6.8%	0	0	192	226	0	0	1,569	1,665
Kentucky	133	123	7.9%	0	0	0	0	0	0	133	123
Mississippi	512	521	-1.7%	0	0	0	0	0	0	512	521
Tennessee	373	363	2.7%	0	0	0	0	0	0	373	363
West South Central	2,364	2,265	4.4%	0	0	72	0	0	0	2,292	2,265
Arkansas	544	502	8.3%	0	0	0	0	0	0	544	502
Louisiana	1,245	1,261	-1.3%	0	0	0	0	0	0	1,245	1,261
Oklahoma	151	76	100.0%	0	0	0	0	0	0	151	76
Texas	424	426	-0.5%	0	0	72	0	0	0	352	426
Mountain	469	523	-10.0%	0	0	401	430	0	0	68	92
Arizona	NM	301	NM	0	0	NM	301	0	0	0	0
Colorado	114	104	9.0%	0	0	114	104	0	0	0	0
Idaho	72	102	-29.0%	0	0	27	26	0	0	45	76
Montana	23	16	44.0%	0	0	0	0	0	0	23	16
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	5,150	5,404	-4.7%	NM	426	3,359	3,416	0	0	1,398	1,563
California	3,439	3,443	-0.1%	0	0	3,101	3,044	0	0	338	399
Oregon	583	685	-15.0%	0	0	NM	371	0	0	326	314
Washington	1,128	1,277	-12.0%	NM	426	0	0	0	0	735	850
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	29,567	30,502	-3.1%	3,091	3,489	13,202	13,145	15	51	13,258	13,817

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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 September 2017 and September 2016 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	46,421	45,380	2.3%	6,269	6,908	36,008	34,560	44	16	4,099	3,895
Connecticut	3,550	3,496	1.5%	0	0	3,550	3,496	0	0	0	0
Maine	18,943	18,623	1.7%	0	0	14,808	14,719	36	8	4,099	3,895
Massachusetts	1,760	1,705	3.2%	0	0	1,760	1,705	0	0	0	0
New Hampshire	17,617	16,657	5.8%	3,395	3,543	14,223	13,114	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	4,551	4,898	-7.1%	2,875	3,365	1,668	1,525	8	8	0	0
Middle Atlantic	10,219	9,510	7.5%	0	0	5,131	4,622	0	0	5,089	4,888
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,925	5,417	9.4%	0	0	5,129	4,607	0	0	796	811
Pennsylvania	4,294	4,093	4.9%	0	0	1	15	0	0	4,293	4,078
East North Central	19,481	18,198	7.1%	3,849	3,395	9,866	8,922	0	0	5,766	5,880
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	12,405	11,539	7.5%	0	0	9,753	8,804	0	0	2,652	2,735
Ohio	956	976	-2.1%	0	0	113	119	0	0	843	858
Wisconsin	6,120	5,682	7.7%	3,849	3,395	0	0	0	0	2,271	2,287
West North Central	8,394	7,062	19.0%	1,649	1,521	4,290	3,273	272	269	2,183	2,000
Iowa	10	5	119.0%	0	0	0	0	10	5	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	8,148	6,829	19.0%	1,649	1,521	4,290	3,273	26	36	2,183	2,000
Missouri	236	229	3.1%	0	0	0	0	236	229	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	94,407	88,507	6.7%	16,875	16,109	29,133	24,403	27	96	48,371	47,898
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	15,009	11,963	25.0%	0	0	8,214	5,198	0	0	6,796	6,765
Georgia	24,414	23,250	5.0%	0	0	6,524	5,375	0	0	17,890	17,875
Maryland	508	527	-3.7%	0	0	0	0	27	96	480	431
North Carolina	12,006	11,171	7.5%	0	0	6,884	6,432	0	0	5,122	4,739
South Carolina	14,419	14,008	2.9%	1,366	1,297	5,106	4,949	0	0	7,946	7,762
Virginia	28,051	27,588	1.7%	15,509	14,812	2,404	2,450	0	0	10,137	10,326
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	27,712	27,463	0.9%	0	0	1,846	1,826	0	0	25,866	25,637
Alabama	17,969	17,654	1.8%	0	0	1,846	1,826	0	0	16,124	15,829
Kentucky	1,233	1,254	-1.7%	0	0	0	0	0	0	1,233	1,254
Mississippi	5,228	5,410	-3.4%	0	0	0	0	0	0	5,228	5,410
Tennessee	3,282	3,144	4.4%	0	0	0	0	0	0	3,282	3,144
West South Central	22,315	23,045	-3.2%	0	337	977	1,449	0	0	21,339	21,259
Arkansas	5,091	4,820	5.6%	0	0	0	0	0	0	5,091	4,820
Louisiana	11,765	11,868	-0.9%	0	0	0	0	0	0	11,765	11,868
Oklahoma	1,122	1,214	-7.5%	0	0	0	0	0	0	1,122	1,214
Texas	4,338	5,143	-16.0%	0	337	977	1,449	0	0	3,361	3,357
Mountain	5,190	5,048	2.8%	0	0	3,911	3,666	0	0	1,279	1,382
Arizona	2,669	2,548	4.8%	0	0	2,669	2,548	0	0	0	0
Colorado	1,014	873	16.0%	0	0	1,014	873	0	0	0	0
Idaho	1,321	1,452	-9.0%	0	0	227	245	0	0	1,094	1,208
Montana	185	174	6.1%	0	0	0	0	0	0	185	174
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	49,377	47,030	5.0%	3,908	3,544	32,270	30,246	0	0	13,198	13,240
California	33,052	31,567	4.7%	0	0	29,792	28,087	0	0	3,261	3,480
Oregon	5,551	5,141	8.0%	0	0	2,478	2,159	0	0	3,073	2,982
Washington	10,773	10,322	4.4%	3,908	3,544	0	0	0	0	6,865	6,778
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	283,516	271,242	4.5%	32,551	31,814	123,431	112,966	343	382	127,191	126,079

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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, 2007 - September 2017

	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									
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
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	31,702	845	130,885	20,920	603	31,124	10,781	241
Year 2015, End of Month Stocks									
January	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
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	35,481	780	128,256	20,846	589	30,652	14,635	191
Sept	156,567	35,555	768	127,532	20,925	566	29,035	14,630	201
October	160,932	35,754	813	131,510	21,022	606	29,422	14,732	207
November	170,277	31,920	833	138,091	21,192	606	32,185	10,727	227
December	162,009	31,702	845	130,885	20,920	603	31,124	10,781	241
Year 2017, End of Month Stocks									
January	156,175	31,468	794	125,187	20,714	542	30,988	10,754	252
February	160,447	31,094	821	128,010	20,442	551	32,438	10,652	270
March	161,691	31,622	855	128,575	21,144	566	33,116	10,478	289
April	163,726	31,325	933	130,310	21,030	630	33,416	10,295	304
May	162,396	30,891	881	129,229	20,604	570	33,167	10,286	312
June	157,717	30,545	867	126,381	20,543	542	31,336	10,002	325
July	145,518	30,466	875	117,574	20,548	552	27,944	9,917	323
August	141,672	30,068	918	114,013	20,225	576	27,659	9,843	341
Sept	139,531	29,643	987	113,336	20,051	632	26,195	9,592	356

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

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, September 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	September 2017	September 2016	Percentage Change	September 2017	September 2016	Percentage Change	September 2017	September 2016	Percentage Change
New England	W	1,789	W	3,859	4,535	-14.9%	0	0	--
Connecticut	W	W	W	1,412	1,589	-11.1%	0	0	--
Maine	0	0	--	392	490	-20.0%	0	0	--
Massachusetts	W	W	W	1,529	1,876	-18.5%	0	0	--
New Hampshire	W	W	W	337	374	-10.0%	0	0	--
Rhode Island	W	W	W	149	154	-3.3%	0	0	--
Vermont	0	0	--	39	52	-24.3%	0	0	--
Middle Atlantic	4,456	4,547	-2.0%	5,398	9,447	-42.9%	0	W	W
New Jersey	131	779	-83.2%	623	687	-9.3%	0	0	--
New York	W	W	W	3,544	7,410	-52.2%	0	0	--
Pennsylvania	W	W	W	1,231	1,350	-8.8%	0	W	W
East North Central	29,775	34,677	-14.1%	1,062	1,128	-5.8%	410	208	97.3%
Illinois	6,693	6,566	1.9%	72	85	-14.7%	0	0	--
Indiana	8,369	10,023	-16.5%	110	109	1.6%	W	0	W
Michigan	5,112	5,697	-10.3%	312	334	-6.7%	W	W	W
Ohio	5,190	8,202	-36.7%	377	373	1.1%	W	W	W
Wisconsin	4,410	4,189	5.3%	191	228	-16.2%	W	W	W
West North Central	26,378	29,719	-11.2%	860	1,061	-18.9%	0	0	--
Iowa	6,141	7,718	-20.4%	107	159	-32.4%	0	0	--
Kansas	3,729	4,264	-12.6%	111	139	-20.7%	0	0	--
Minnesota	3,453	3,751	-7.9%	115	147	-22.0%	0	0	--
Missouri	7,956	8,816	-9.7%	343	397	-13.6%	0	0	--
Nebraska	3,163	3,281	-3.6%	106	120	-11.6%	0	0	--
North Dakota	W	W	W	33	41	-20.9%	0	0	--
South Dakota	W	W	W	46	58	-20.3%	0	0	--
South Atlantic	23,979	25,328	-5.3%	12,120	11,903	1.8%	W	W	W
Delaware	W	W	W	385	546	-29.5%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,385	4,771	-8.1%	5,501	4,914	11.9%	105	W	W
Georgia	4,849	4,156	16.7%	801	820	-2.3%	0	0	--
Maryland	1,444	757	90.7%	761	900	-15.4%	0	0	--
North Carolina	4,103	4,647	-11.7%	1,205	1,253	-3.9%	0	0	--
South Carolina	4,080	5,313	-23.2%	688	720	-4.5%	0	0	--
Virginia	1,123	992	13.2%	2,635	2,610	1.0%	0	0	--
West Virginia	W	W	W	144	141	2.2%	W	W	W
East South Central	13,882	14,575	-4.8%	1,857	1,886	-1.5%	W	W	W
Alabama	3,078	3,835	-19.7%	322	339	-4.9%	0	0	--
Kentucky	7,170	6,946	3.2%	232	241	-3.9%	W	W	W
Mississippi	1,028	968	6.2%	555	575	-3.6%	0	0	--
Tennessee	2,605	2,826	-7.8%	749	730	2.5%	0	0	--
West South Central	18,978	23,434	-19.0%	1,701	1,817	-6.4%	W	W	W
Arkansas	2,220	3,977	-44.2%	183	174	4.7%	0	0	--
Louisiana	2,158	2,245	-3.9%	379	425	-10.8%	W	W	W
Oklahoma	3,655	5,128	-28.7%	97	91	7.3%	0	0	--
Texas	10,945	12,085	-9.4%	1,041	1,127	-7.6%	0	0	--
Mountain	19,719	20,990	-6.1%	391	407	-3.9%	W	W	W
Arizona	3,151	3,923	-19.7%	134	131	2.7%	0	0	--
Colorado	3,997	5,096	-21.6%	138	130	5.8%	0	0	--
Idaho	0	0	--	0	0	-18.3%	0	0	--
Montana	W	W	W	20	20	-1.4%	W	W	W
Nevada	W	W	W	5	15	-64.9%	0	0	--
New Mexico	W	W	W	26	40	-36.2%	0	0	--
Utah	5,266	5,149	2.3%	31	37	-15.8%	0	0	--
Wyoming	4,857	3,995	21.6%	37	34	10.1%	0	0	--
Pacific Contiguous	W	W	W	329	504	-34.8%	0	0	--
California	0	0	--	162	163	-0.5%	0	0	--
Oregon	W	W	W	66	78	-15.7%	0	0	--
Washington	W	W	W	100	262	-61.8%	0	0	--
Pacific Noncontiguous	W	W	W	2,066	2,867	-27.9%	0	0	--
Alaska	0	W	W	114	414	-72.5%	0	0	--
Hawaii	W	W	W	1,952	2,453	-20.4%	0	0	--
U.S. Total	139,531	156,567	-10.9%	29,643	35,555	-16.6%	987	768	28.6%

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, September 2017 and 2016

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**September 2017**	**September 2016**	**Percentage Change**	**September 2017**	**September 2016**	**September 2017**	**September 2016**
Coal (Thousand Tons)							
New England	W	1,789	W	W	W	W	W
Middle Atlantic	4,456	4,547	-2.0%	W	0	W	4,547
East North Central	29,775	34,677	-14.1%	19,724	22,291	10,050	12,386
West North Central	26,378	29,719	-11.2%	26,378	W	0	W
South Atlantic	23,979	25,328	-5.3%	21,517	23,734	2,461	1,595
East South Central	13,882	14,575	-4.8%	13,882	14,575	0	0
West South Central	18,978	23,434	-19.0%	12,217	15,745	6,761	7,689
Mountain	19,719	20,990	-6.1%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**139,531**	**156,567**	**-10.9%**	**113,336**	**127,532**	**26,195**	**29,035**
Petroleum Liquids (Thousand Barrels)							
New England	3,859	4,535	-14.9%	621	694	3,237	3,840
Middle Atlantic	5,398	9,447	-42.9%	2,223	2,107	3,175	7,340
East North Central	1,062	1,128	-5.8%	747	811	315	317
West North Central	860	1,061	-18.9%	837	1,037	23	24
South Atlantic	12,120	11,903	1.8%	9,915	9,493	2,204	2,411
East South Central	1,857	1,886	-1.5%	1,785	1,813	73	73
West South Central	1,701	1,817	-6.4%	1,309	1,360	392	457
Mountain	391	407	-3.9%	357	373	35	34
Pacific Contiguous	329	504	-34.8%	223	406	106	97
Pacific Noncontiguous	2,066	2,867	-27.9%	2,035	2,830	32	37
U.S. Total	**29,643**	**35,555**	**-16.6%**	**20,051**	**20,925**	**9,592**	**14,630**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	W	W	0	0	0	W
East North Central	410	208	97.3%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	105	W	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	**987**	**768**	**28.6%**	**W**	**W**	**W**	**W**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2007 - September 2017

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2007	63,964	82,692	4,565	151,221
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
Year 2015, End of Month Stocks				
January	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
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	88,269	4,424	160,447
March	67,740	89,299	4,651	161,691
April	68,132	90,589	5,005	163,726
May	68,338	88,854	5,204	162,396
June	66,473	86,543	4,701	157,717
July	60,367	80,871	4,281	145,518
August	59,133	77,489	5,050	141,672
Sept	58,387	77,199	3,945	139,531

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 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), 2007 - September 2017

	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												
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
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	9.40	56.95	0.49	68.1
Year 2015												
January	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
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	10.19	61.94	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	1,099,136	57,463	2.09	40.05	1.26	88.6	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	62.3
May	939,123	48,842	2.13	40.90	1.32	94.1	6,485	1,082	W	W	0.48	56.6
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	1,080,359	56,632	2.09	39.84	1.22	79.7	6,488	1,086	W	W	0.48	54.9
August	1,172,537	61,134	2.08	39.85	1.30	91.1	6,866	1,136	W	W	0.47	61.0
Sept	1,005,155	52,845	2.03	38.55	1.24	94.6	6,394	1,061	W	W	0.49	57.6
Year to Date												
2015	11,505,663	596,077	2.25	43.36	1.30	99.4	110,396	18,221	12.35	74.90	0.49	68.5
2016	9,182,079	476,216	2.13	41.00	1.36	91.2	75,768	12,495	9.08	55.10	0.48	66.2
2017	9,187,045	478,853	2.09	40.03	1.29	92.9	67,082	11,172	11.42	68.60	0.49	66.4
Rolling 12 Months Ending in September												
2016	12,762,624	663,069	2.13	41.07	1.33	97.6	113,019	18,594	9.04	55.01	0.48	76.4
2017	12,521,238	653,407	2.08	39.94	1.29	95.1	93,124	15,484	W	W	0.49	68.4

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

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

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

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2007 - September 2017 (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												
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
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
Year 2015												
January	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
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	605,952	585,551	4.13	4.28	76.5	2.82
February	7,593	271	2.00	56.03	5.85	83.0	532,101	514,990	3.58	3.70	77.7	2.60
March	8,628	309	2.06	57.51	5.29	86.8	616,880	597,210	3.36	3.47	71.3	2.62
April	5,835	208	2.00	55.96	5.34	93.1	576,203	557,620	3.38	3.49	76.1	2.62
May	6,776	242	2.05	57.46	5.57	61.1	646,016	625,858	3.49	3.60	76.6	W
June	8,657	308	W	W	5.55	71.1	762,488	737,995	3.30	3.41	76.4	W
July	8,498	302	W	W	5.50	73.2	928,732	897,833	3.22	3.33	74.7	W
August	7,972	284	W	W	5.47	77.2	900,125	870,465	3.16	3.27	73.8	W
Sept	7,915	284	W	W	5.43	84.5	759,247	733,551	3.20	3.31	75.1	W
Year to Date												
2015	104,434	3,686	1.90	53.80	5.18	90.4	7,738,236	7,487,423	3.39	3.50	90.1	2.72
2016	88,788	3,162	1.50	42.25	5.34	75.8	8,375,124	8,100,438	2.74	2.83	90.9	2.43
2017	68,933	2,458	W	W	5.52	75.0	6,327,743	6,121,073	3.39	3.51	75.2	W
Rolling 12 Months Ending in September												
2016	123,023	4,373	1.55	43.56	5.38	82.8	10,810,390	10,455,596	2.74	2.83	90.5	2.42
2017	97,086	3,463	W	W	5.54	77.7	8,571,725	8,291,815	3.38	3.50	78.6	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 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - September 2017

	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												
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
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
Year 2015												
January	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
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	791,083	41,154	2.14	41.21	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	688,996	35,438	2.16	42.03	1.20	94.5	4,612	764	11.38	68.72	0.45	58.4
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	811,773	42,046	2.12	40.90	1.12	80.4	4,654	774	10.91	65.61	0.45	59.6
August	882,432	45,611	2.11	40.88	1.19	92.4	5,107	838	11.08	67.53	0.46	65.5
Sept	736,582	38,557	2.08	39.78	1.10	97.3	4,752	779	11.75	71.65	0.48	62.0
Year to Date												
2015	8,458,964	435,381	2.27	44.11	1.18	101.7	68,171	11,181	12.10	73.79	0.46	75.1
2016	6,827,277	350,476	2.17	42.33	1.22	93.0	55,744	9,104	8.87	54.31	0.45	73.6
2017	6,773,612	350,369	2.13	41.10	1.18	93.9	50,894	8,426	11.30	68.27	0.48	72.6
Rolling 12 Months Ending in September												
2016	9,456,944	486,802	2.18	42.36	1.20	99.4	77,614	12,669	8.87	54.36	0.45	78.6
2017	9,203,213	476,099	2.13	41.11	1.18	96.1	68,444	11,307	10.99	66.53	0.47	73.2

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NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - September 2017 (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												
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
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
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
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	278,520	4.35	4.50	83.4	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	85.1	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,757	288,239	3.56	3.67	78.0	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,424	272,351	3.52	3.63	82.4	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,910	314,005	3.71	3.82	82.9	2.69
June	8,386	298	2.14	60.07	5.55	105.5	368,351	356,696	3.57	3.69	80.6	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,470	431,599	3.48	3.60	76.9	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,280	418,121	3.46	3.57	76.7	2.58
Sept	7,658	274	2.12	59.07	5.42	130.2	362,510	350,495	3.58	3.70	78.4	2.61
Year to Date												
2015	87,789	3,084	1.85	52.56	5.15	123.9	3,585,594	3,470,109	3.67	3.79	96.1	2.73
2016	76,730	2,723	1.37	38.53	5.31	98.7	4,016,639	3,884,578	3.01	3.11	97.1	2.51
2017	67,855	2,420	2.08	58.41	5.52	115.1	3,051,601	2,952,659	3.64	3.77	79.9	2.64
Rolling 12 Months Ending in September												
2016	104,870	3,709	1.41	39.92	5.36	109.1	5,148,793	4,979,509	3.02	3.12	96.8	2.50
2017	90,831	3,235	2.07	58.14	5.54	116.6	4,110,299	3,975,620	3.66	3.78	83.7	2.63

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

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- See Glossary for definitions.
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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - September 2017

	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												
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
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	9.97	58.79	0.48	75.1
Year 2015												
January	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
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	11.16	66.40	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	92.7
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	71.8
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
Year to Date												
2015	2,844,104	151,375	2.14	40.21	1.67	95.9	40,502	6,759	12.74	76.42	0.48	71.9
2016	2,192,870	118,190	1.94	35.98	1.79	88.3	18,236	3,102	9.63	56.69	0.47	69.3
2017	2,275,045	121,907	1.94	36.23	1.64	92.5	14,949	2,548	11.87	69.65	0.45	70.2
Rolling 12 Months Ending in September												
2016	3,080,274	165,798	1.95	36.21	1.74	95.4	32,982	5,532	W	W	0.45	97.0
2017	3,129,533	168,365	1.93	35.88	1.62	94.9	22,689	3,856	W	W	0.46	76.8

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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, 2007 - September 2017 (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												
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
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
Year 2015												
January	1,427	52	W	W	5.10	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
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	81.1	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	72.0	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.19	3.30	79.1	W
May	0	0	--	--	--	0.0	269,235	260,637	3.19	3.29	79.0	W
June	0	0	--	--	--	0.0	339,166	328,064	2.92	3.02	79.2	W
July	0	0	--	--	--	0.0	423,924	409,779	2.86	2.96	78.4	W
August	0	0	--	--	--	0.0	412,138	398,444	2.76	2.85	76.4	W
Sept	0	0	--	--	--	0.0	342,641	330,729	2.68	2.78	78.5	W
Year to Date												
2015	9,871	352	2.43	68.28	5.15	58.1	3,574,632	3,458,417	3.12	3.22	93.2	W
2016	9,229	335	2.50	68.93	5.41	65.3	3,801,874	3,676,383	2.42	2.50	94.1	W
2017	0	0	--	--	--	0.0	2,779,355	2,687,457	3.07	3.18	78.0	2.52
Rolling 12 Months Ending in September												
2016	13,908	506	W	W	5.44	73.9	4,910,533	4,748,161	2.41	2.49	93.9	W
2017	4,344	158	W	W	5.51	25.8	3,769,210	3,645,592	3.05	3.15	81.6	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.
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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - September 2017

	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												
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
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
Year 2015												
January	309	14	W	W	2.65	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	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
Year to Date												
2015	1,939	87	2.90	64.92	2.44	14.1	0	0	--	--	--	0.0
2016	678	30	W	W	2.99	6.0	0	0	--	--	--	0.0
2017	411	18	W	W	2.99	4.0	0	0	--	--	--	0.0
Rolling 12 Months Ending in September												
2016	1,178	52	W	W	2.98	7.6	0	0	--	--	--	0.0
2017	1,021	45	W	W	3.04	7.0	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 EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - September 2017 (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												
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
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
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	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
Year to Date												
2015	0	0	--	--	--	0.0	4,670	4,592	W	W	5.2	W
2016	0	0	--	--	--	0.0	6,227	6,053	W	W	6.2	W
2017	0	0	--	--	--	0.0	5,753	5,568	W	W	6.2	W
Rolling 12 Months Ending in September												
2016	0	0	--	--	--	0.0	8,057	7,832	W	W	6.2	W
2017	0	0	--	--	--	0.0	7,531	7,281	W	W	6.1	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, 2007 - September 2017

	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												
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
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
Year 2015												
January	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
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	54.3	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	15.7
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
Year to Date												
2015	200,655	9,234	2.74	59.52	1.33	71.0	1,724	281	13.98	85.62	1.42	15.6
2016	161,254	7,520	W	W	1.30	67.0	1,789	290	10.25	63.32	1.29	16.4
2017	137,976	6,560	W	W	1.21	66.0	1,239	199	11.07	69.08	1.28	15.8
Rolling 12 Months Ending in September												
2016	224,228	10,417	W	W	1.33	68.6	2,424	393	W	W	1.32	17.6
2017	187,471	8,898	W	W	1.23	66.2	1,991	321	W	W	1.26	18.4

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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, 2007 - September 2017 (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												
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
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
Year 2015												
January	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	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	51.4	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	57,702	55,842	W	W	52.3	W
August	296	11	W	W	5.85	11.9	54,898	53,122	W	W	51.7	W
Sept	257	9	W	W	5.85	12.0	53,389	51,642	W	W	52.6	W
Year to Date												
2015	6,774	250	W	W	5.55	25.8	573,340	554,306	W	W	61.2	W
2016	2,830	104	W	W	5.85	11.7	550,383	533,425	W	W	58.8	W
2017	1,078	39	W	W	5.82	5.2	491,034	475,388	W	W	52.2	W
Rolling 12 Months Ending in September												
2016	4,245	158	W	W	5.65	13.3	743,008	720,094	W	W	58.9	W
2017	1,912	70	W	W	5.80	6.6	684,685	663,322	W	W	54.7	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 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, September 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	5	94	-95.0%	0	39	5	53	0	0	0	2
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	7	-34.0%	0	0	5	5	0	0	0	2
Massachusetts	0	48	-100.0%	0	0	0	48	0	0	0	0
New Hampshire	0	39	-100.0%	0	39	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	1,600	2,158	-26.0%	31	0	1,568	2,104	0	0	0	54
New Jersey	57	49	17.0%	0	0	57	49	0	0	0	0
New York	0	63	-100.0%	0	0	0	38	0	0	0	25
Pennsylvania	1,542	2,046	-25.0%	31	0	1,511	2,018	0	0	0	28
East North Central	11,748	12,562	-6.5%	7,171	7,782	4,423	4,593	0	0	154	187
Illinois	3,204	3,378	-5.1%	499	358	2,566	2,874	0	0	139	146
Indiana	2,248	2,484	-9.5%	2,112	2,323	135	161	0	0	0	0
Michigan	2,466	2,566	-3.9%	2,418	2,531	47	34	0	0	1	0
Ohio	2,172	2,231	-2.7%	497	706	1,675	1,523	0	0	0	2
Wisconsin	1,659	1,903	-13.0%	1,645	1,863	0	0	0	0	14	39
West North Central	10,024	10,203	-1.8%	9,756	9,960	0	0	3	7	264	235
Iowa	1,249	1,706	-27.0%	1,107	1,539	0	0	0	0	142	167
Kansas	1,219	1,361	-10.0%	1,219	1,361	0	0	0	0	0	0
Minnesota	1,052	1,176	-11.0%	993	1,169	0	0	0	0	59	6
Missouri	3,351	2,984	12.0%	3,348	2,977	0	0	3	7	0	0
Nebraska	1,026	1,120	-8.4%	963	1,058	0	0	0	0	63	62
North Dakota	2,028	1,756	16.0%	2,028	1,756	0	0	0	0	0	0
South Dakota	99	99	-0.1%	99	99	0	0	0	0	0	0
South Atlantic	6,797	8,743	-22.0%	5,947	7,397	779	1,261	0	0	71	85
Delaware	0	15	-100.0%	0	0	0	15	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,008	1,525	-34.0%	997	1,474	0	51	0	0	11	0
Georgia	1,536	1,675	-8.3%	1,526	1,665	0	0	0	0	10	10
Maryland	297	599	-50.0%	0	0	283	582	0	0	14	17
North Carolina	1,164	1,361	-14.0%	1,131	1,312	12	8	0	0	21	40
South Carolina	472	545	-13.0%	472	545	0	0	0	0	0	0
Virginia	297	702	-58.0%	249	624	34	60	0	0	15	18
West Virginia	2,023	2,321	-13.0%	1,573	1,777	450	544	0	0	0	0
East South Central	4,024	6,277	-36.0%	3,901	5,876	46	311	0	0	78	89
Alabama	1,283	1,405	-8.7%	1,283	1,405	0	0	0	0	0	0
Kentucky	2,127	3,225	-34.0%	2,127	3,225	0	0	0	0	0	0
Mississippi	200	509	-61.0%	155	198	46	311	0	0	0	0
Tennessee	415	1,138	-64.0%	337	1,049	0	0	0	0	78	89
West South Central	10,738	11,315	-5.1%	5,226	5,232	5,477	6,042	0	0	35	41
Arkansas	1,359	1,079	26.0%	1,138	893	216	181	0	0	5	5
Louisiana	537	613	-12.0%	307	450	230	163	0	0	0	0
Oklahoma	1,517	1,018	49.0%	1,390	880	96	102	0	0	30	36
Texas	7,325	8,605	-15.0%	2,391	3,009	4,934	5,596	0	0	0	0
Mountain	7,260	8,413	-14.0%	6,358	7,363	882	1,023	0	0	20	27
Arizona	1,586	1,825	-13.0%	1,586	1,825	0	0	0	0	0	0
Colorado	1,282	1,423	-9.9%	1,282	1,423	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	771	926	-17.0%	16	26	755	900	0	0	0	0
Nevada	45	127	-64.0%	0	83	45	44	0	0	0	0
New Mexico	728	782	-7.0%	728	782	0	0	0	0	0	0
Utah	919	1,162	-21.0%	861	1,102	38	34	0	0	20	27
Wyoming	1,930	2,166	-11.0%	1,886	2,121	44	45	0	0	0	0
Pacific Contiguous	635	601	5.6%	150	159	430	409	0	0	55	33
California	55	33	67.0%	0	0	0	0	0	0	55	33
Oregon	150	159	-5.5%	150	159	0	0	0	0	0	0
Washington	430	409	5.0%	0	0	430	409	0	0	0	0
Pacific Noncontiguous	16	77	-79.0%	16	15	0	62	0	0	0	0
Alaska	16	15	11.0%	16	15	0	0	0	0	0	0
Hawaii	0	62	-100.0%	0	0	0	62	0	0	0	0
U.S. Total	52,845	60,441	-13.0%	38,557	43,822	13,609	15,859	3	7	677	753

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.
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Notes:
See Glossary for definitions. Values for 2016 are final. Values for 2017 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) September 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	177	980	-82.0%	45	140	133	828	0	0	0	12
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	46	61	-25.0%	0	0	46	49	0	0	0	12
Massachusetts	87	694	-88.0%	0	0	87	694	0	0	0	0
New Hampshire	45	140	-68.0%	45	140	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	15,395	18,243	-16.0%	94	0	15,067	17,779	0	0	235	465
New Jersey	481	472	1.9%	0	0	481	472	0	0	0	0
New York	244	393	-38.0%	0	0	97	181	0	0	147	212
Pennsylvania	14,671	17,379	-16.0%	94	0	14,490	17,126	0	0	88	253
East North Central	103,150	102,294	0.8%	62,829	60,928	38,858	39,410	0	0	1,464	1,956
Illinois	30,255	28,668	5.5%	5,922	5,327	22,944	21,857	0	0	1,389	1,484
Indiana	21,374	21,667	-1.4%	20,276	20,270	1,098	1,396	0	0	0	0
Michigan	17,340	16,201	7.0%	17,142	16,014	190	177	0	0	8	10
Ohio	19,609	22,179	-12.0%	4,984	6,047	14,625	15,980	0	0	0	152
Wisconsin	14,572	13,580	7.3%	14,505	13,270	0	0	0	0	67	310
West North Central	85,358	87,364	-2.3%	82,859	85,104	0	0	18	30	2,481	2,231
Iowa	11,060	13,467	-18.0%	9,457	11,857	0	0	0	0	1,603	1,610
Kansas	8,703	10,392	-16.0%	8,703	10,392	0	0	0	0	0	0
Minnesota	9,305	8,677	7.2%	8,995	8,631	0	0	0	0	310	46
Missouri	27,848	26,550	4.9%	27,830	26,520	0	0	18	30	0	0
Nebraska	9,982	10,358	-3.6%	9,414	9,783	0	0	0	0	568	575
North Dakota	17,446	16,910	3.2%	17,446	16,910	0	0	0	0	0	0
South Dakota	1,015	1,011	0.4%	1,015	1,011	0	0	0	0	0	0
South Atlantic	67,338	71,203	-5.4%	59,268	61,613	7,309	8,694	0	0	760	896
Delaware	200	199	0.3%	0	0	200	199	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11,700	11,258	3.9%	11,549	10,981	26	277	0	0	126	0
Georgia	13,072	12,671	3.2%	12,994	12,568	0	0	0	0	78	103
Maryland	2,826	3,607	-22.0%	0	0	2,681	3,436	0	0	145	171
North Carolina	10,522	8,705	21.0%	10,248	8,396	46	53	0	0	228	256
South Carolina	5,044	6,457	-22.0%	5,025	6,382	0	0	0	0	19	74
Virginia	4,416	6,089	-27.0%	3,947	5,409	304	456	0	0	165	224
West Virginia	19,557	22,218	-12.0%	15,504	17,876	4,053	4,273	0	0	0	69
East South Central	46,681	49,462	-5.6%	44,086	46,146	1,868	2,362	0	0	727	953
Alabama	12,055	12,174	-1.0%	12,055	12,174	0	0	0	0	0	0
Kentucky	24,950	27,197	-8.3%	24,950	27,197	0	0	0	0	0	0
Mississippi	3,001	3,136	-4.3%	1,133	774	1,868	2,362	0	0	0	0
Tennessee	6,675	6,956	-4.0%	5,949	6,002	0	0	0	0	727	953
West South Central	90,529	76,415	18.0%	41,487	36,873	48,702	39,219	0	0	341	323
Arkansas	9,931	8,998	10.0%	8,925	7,438	953	1,514	0	0	53	45
Louisiana	6,192	4,824	28.0%	3,733	3,714	2,459	1,110	0	0	0	0
Oklahoma	7,916	7,788	1.6%	6,848	6,718	780	792	0	0	288	278
Texas	66,491	54,805	21.0%	21,981	19,002	44,510	35,803	0	0	0	0
Mountain	66,393	66,288	0.2%	59,140	58,735	7,162	7,340	0	0	91	214
Arizona	12,254	11,165	9.8%	12,254	11,165	0	0	0	0	0	0
Colorado	12,043	11,634	3.5%	12,043	11,634	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	6,218	6,474	-4.0%	201	183	6,017	6,291	0	0	0	0
Nevada	622	705	-12.0%	182	336	440	369	0	0	0	0
New Mexico	8,304	7,630	8.8%	8,304	7,630	0	0	0	0	0	0
Utah	9,080	10,043	-9.6%	8,680	9,537	309	293	0	0	91	214
Wyoming	17,872	18,637	-4.1%	17,476	18,250	396	387	0	0	0	0
Pacific Contiguous	3,225	3,212	0.4%	439	784	2,325	1,957	0	0	461	471
California	461	471	-2.1%	0	0	0	0	0	0	461	471
Oregon	439	784	-44.0%	439	784	0	0	0	0	0	0
Washington	2,325	1,957	19.0%	0	0	2,325	1,957	0	0	0	0
Pacific Noncontiguous	606	754	-20.0%	122	153	484	601	0	0	0	0
Alaska	122	153	-20.0%	122	153	0	0	0	0	0	0
Hawaii	484	601	-20.0%	0	0	484	601	0	0	0	0
U.S. Total	478,853	476,216	0.6%	350,369	350,476	121,907	118,190	18	30	6,560	7,520

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Notes:
See Glossary for definitions. Values for 2016 are final. Values for 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, September 2017 and 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	3	39	-93.0%	0	1	3	38	0	0	0	0
Connecticut	0	1	-100.0%	0	0	0	1	0	0	0	0
Maine	2	1	213.0%	0	0	2	1	0	0	0	0
Massachusetts	0	37	-99.0%	0	0	0	37	0	0	0	0
New Hampshire	0	1	-100.0%	0	1	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	39	85	-55.0%	0	4	33	72	0	0	6	9
New Jersey	0	3	-89.0%	0	0	0	3	0	0	0	0
New York	1	54	-98.0%	0	4	1	46	0	0	0	5
Pennsylvania	37	28	34.0%	0	0	31	23	0	0	6	5
East North Central	68	88	-22.0%	53	36	12	49	0	0	3	3
Illinois	6	6	11.0%	0	0	6	6	0	0	0	0
Indiana	22	9	146.0%	22	9	0	0	0	0	0	0
Michigan	23	13	73.0%	21	12	0	0	0	0	1	1
Ohio	16	53	-71.0%	8	12	6	39	0	0	2	2
Wisconsin	2	6	-75.0%	2	3	0	4	0	0	0	0
West North Central	26	35	-24.0%	26	35	0	0	0	0	0	0
Iowa	6	10	-37.0%	6	10	0	0	0	0	0	0
Kansas	9	2	268.0%	9	2	0	0	0	0	0	0
Minnesota	4	12	-71.0%	4	12	0	0	0	0	0	0
Missouri	5	9	-49.0%	5	9	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	1	267.0%	3	1	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	92	153	-40.0%	66	72	11	68	0	0	15	14
Delaware	0	2	-100.0%	0	0	0	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	16	6	171.0%	11	6	0	0	0	0	5	0
Georgia	14	11	30.0%	8	7	0	0	0	0	6	4
Maryland	8	31	-75.0%	0	0	8	31	0	0	0	0
North Carolina	16	22	-28.0%	13	19	0	0	0	0	3	2
South Carolina	7	14	-52.0%	5	7	0	0	0	0	1	7
Virginia	11	51	-78.0%	7	16	3	34	0	0	0	1
West Virginia	21	17	27.0%	21	17	0	0	0	0	0	0
East South Central	11	30	-62.0%	11	30	0	0	0	0	0	0
Alabama	1	3	-47.0%	1	3	0	0	0	0	0	0
Kentucky	3	14	-78.0%	3	14	0	0	0	0	0	0
Mississippi	1	1	-26.0%	1	1	0	0	0	0	0	0
Tennessee	6	12	-50.0%	6	12	0	0	0	0	0	0
West South Central	15	16	-8.7%	13	8	2	8	0	0	0	0
Arkansas	5	2	110.0%	4	0	1	2	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	2	-67.0%	1	2	0	0	0	0	0	0
Texas	9	12	-24.0%	9	7	1	6	0	0	0	0
Mountain	33	20	70.0%	30	17	3	3	0	0	0	0
Arizona	8	1	552.0%	8	1	0	0	0	0	0	0
Colorado	0	1	-100.0%	0	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	2	38.0%	0	0	3	2	0	0	0	0
Nevada	3	2	16.0%	2	2	0	1	0	0	0	0
New Mexico	6	3	95.0%	6	3	0	0	0	0	0	0
Utah	5	2	169.0%	5	2	0	0	0	0	0	0
Wyoming	9	8	14.0%	9	8	0	0	0	0	0	0
Pacific Contiguous	2	2	-11.0%	0	0	2	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	2	-11.0%	0	0	2	2	0	0	0	0
Pacific Noncontiguous	773	875	-12.0%	580	694	193	180	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	773	875	-12.0%	580	694	193	180	0	0	0	0
U.S. Total	1,061	1,342	-21.0%	779	896	258	420	0	0	24	27

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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) September 2017 and 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	199	273	-27.0%	9	73	190	197	0	0	0	3
Connecticut	22	28	-22.0%	0	0	22	28	0	0	0	0
Maine	89	19	368.0%	0	0	89	16	0	0	0	3
Massachusetts	79	210	-63.0%	0	65	79	145	0	0	0	0
New Hampshire	9	8	18.0%	9	8	0	0	0	0	0	0
Rhode Island	0	8	-100.0%	0	0	0	8	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	569	652	-13.0%	172	53	331	532	0	0	66	66
New Jersey	4	12	-70.0%	0	0	4	12	0	0	0	0
New York	278	302	-7.8%	172	53	88	237	0	0	18	12
Pennsylvania	287	338	-15.0%	0	0	239	283	0	0	48	54
East North Central	568	735	-23.0%	347	394	202	316	0	0	20	24
Illinois	63	93	-31.0%	3	3	61	90	0	0	0	0
Indiana	148	143	3.3%	148	143	0	0	0	0	0	0
Michigan	104	140	-26.0%	95	134	0	0	0	0	9	6
Ohio	224	316	-29.0%	72	76	142	223	0	0	11	17
Wisconsin	29	43	-33.0%	29	39	0	4	0	0	0	0
West North Central	282	259	8.9%	282	259	0	0	0	0	0	0
Iowa	72	68	5.9%	72	68	0	0	0	0	0	0
Kansas	66	29	129.0%	66	29	0	0	0	0	0	0
Minnesota	25	29	-16.0%	25	29	0	0	0	0	0	0
Missouri	56	84	-33.0%	56	84	0	0	0	0	0	0
Nebraska	1	3	-68.0%	1	3	0	0	0	0	0	0
North Dakota	58	45	30.0%	58	45	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	2,317	3,013	-23.0%	1,987	2,308	222	516	0	0	108	190
Delaware	13	51	-74.0%	0	0	13	51	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,344	817	65.0%	1,317	812	0	5	0	0	27	0
Georgia	139	210	-34.0%	108	138	3	31	0	0	29	41
Maryland	143	200	-29.0%	0	0	143	200	0	0	0	0
North Carolina	200	274	-27.0%	174	179	1	66	0	0	25	29
South Carolina	93	221	-58.0%	77	121	0	0	0	0	16	101
Virginia	240	1,078	-78.0%	166	897	62	163	0	0	12	19
West Virginia	145	162	-10.0%	145	162	0	0	0	0	0	0
East South Central	271	350	-23.0%	262	334	4	10	0	0	5	6
Alabama	35	55	-36.0%	31	45	4	10	0	0	0	0
Kentucky	120	142	-16.0%	120	142	0	0	0	0	0	0
Mississippi	12	21	-42.0%	12	21	0	0	0	0	0	0
Tennessee	104	131	-21.0%	99	125	0	0	0	0	5	6
West South Central	168	208	-19.0%	78	148	90	60	0	0	0	0
Arkansas	64	50	29.0%	22	35	42	15	0	0	0	0
Louisiana	0	50	-100.0%	0	48	0	2	0	0	0	0
Oklahoma	5	5	-16.0%	5	5	0	0	0	0	0	0
Texas	100	102	-2.8%	51	59	49	43	0	0	0	0
Mountain	261	263	-0.9%	237	237	24	26	0	0	0	0
Arizona	56	68	-18.0%	56	68	0	0	0	0	0	0
Colorado	3	11	-70.0%	3	11	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	16	19	-17.0%	0	0	16	19	0	0	0	0
Nevada	16	20	-19.0%	11	16	5	4	0	0	0	0
New Mexico	53	65	-19.0%	53	65	0	0	0	0	0	0
Utah	50	21	135.0%	48	18	3	3	0	0	0	0
Wyoming	67	59	13.0%	67	59	0	0	0	0	0	0
Pacific Contiguous	28	15	84.0%	14	3	14	12	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	14	3	287.0%	14	3	0	0	0	0	0	0
Washington	14	12	23.0%	0	0	14	12	0	0	0	0
Pacific Noncontiguous	6,508	6,726	-3.2%	5,038	5,293	1,470	1,433	0	0	0	0
Alaska	1	4	-76.0%	1	4	0	0	0	0	0	0
Hawaii	6,507	6,722	-3.2%	5,037	5,290	1,470	1,433	0	0	0	0
U.S. Total	11,172	12,495	-11.0%	8,426	9,104	2,548	3,102	0	0	199	290

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

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

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, September 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
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	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
East North Central	60	72	-18.0%	60	19	0	53	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	16	235.0%	54	16	0	0	0	0	0	0
Ohio	0	53	-100.0%	0	0	0	53	0	0	0	0
Wisconsin	6	3	96.0%	6	3	0	0	0	0	0	0
West North Central	9	0	--	0	0	0	0	0	0	9	0
Iowa	9	0	--	0	0	0	0	0	0	9	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	38	167	-78.0%	38	159	0	0	0	0	0	8
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	38	159	-76.0%	38	159	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	177	142	25.0%	177	142	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	177	142	25.0%	177	142	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	284	381	-26.0%	274	320	0	53	0	0	9	8

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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) September 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 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	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
East North Central	407	789	-48.0%	407	436	0	334	0	0	0	18
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	162	-100.0%	0	162	0	0	0	0	0	0
Michigan	374	243	54.0%	374	243	0	0	0	0	0	0
Ohio	0	334	-100.0%	0	0	0	334	0	0	0	0
Wisconsin	34	50	-33.0%	34	32	0	0	0	0	0	18
West North Central	39	0	--	0	0	0	0	0	0	39	0
Iowa	39	0	--	0	0	0	0	0	0	39	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	484	1,208	-60.0%	484	1,123	0	0	0	0	0	86
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	484	1,123	-57.0%	484	1,123	0	0	0	0	0	0
Georgia	0	86	-100.0%	0	0	0	0	0	0	0	86
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	117	47	148.0%	117	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	117	47	148.0%	117	47	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	1,411	1,117	26.0%	1,411	1,117	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,411	1,117	26.0%	1,411	1,117	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,458	3,162	-22.0%	2,420	2,723	0	335	0	0	39	104

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

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

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, September 2017 and 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	22,018	32,869	-33.0%	35	131	21,984	32,739	0	0	0	0
Connecticut	7,126	9,435	-24.0%	0	0	7,126	9,435	0	0	0	0
Maine	35	1,833	-98.0%	0	0	35	1,833	0	0	0	0
Massachusetts	10,053	13,272	-24.0%	1	98	10,052	13,174	0	0	0	0
New Hampshire	3,326	3,911	-15.0%	34	33	3,292	3,878	0	0	0	0
Rhode Island	1,478	4,419	-67.0%	0	0	1,478	4,419	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	80,258	113,998	-30.0%	6,653	8,634	73,390	105,198	0	0	216	166
New Jersey	11,150	28,473	-61.0%	0	0	11,150	28,473	0	0	0	0
New York	28,168	40,345	-30.0%	6,653	8,634	21,462	31,653	0	0	53	58
Pennsylvania	40,941	45,180	-9.4%	0	0	40,778	45,072	0	0	163	108
East North Central	52,758	66,314	-20.0%	20,719	26,927	30,442	38,036	474	501	1,123	850
Illinois	5,138	12,140	-58.0%	44	1,535	5,085	10,601	0	0	9	4
Indiana	10,508	11,019	-4.6%	8,634	8,877	1,875	2,143	0	0	0	0
Michigan	14,973	17,696	-15.0%	3,361	5,994	10,621	10,858	474	501	517	343
Ohio	15,030	17,791	-16.0%	2,766	4,166	11,893	13,430	0	0	371	196
Wisconsin	7,109	7,667	-7.3%	5,914	6,354	969	1,004	0	0	226	308
West North Central	5,312	14,306	-63.0%	4,532	12,185	47	2,025	211	90	523	6
Iowa	2,784	2,845	-2.1%	2,268	2,842	0	0	0	0	516	3
Kansas	1,215	2,307	-47.0%	1,215	2,307	0	0	0	0	0	0
Minnesota	93	3,331	-97.0%	39	2,426	47	898	0	3	7	4
Missouri	944	4,273	-78.0%	733	3,058	0	1,127	211	87	0	0
Nebraska	160	207	-23.0%	160	206	0	0	0	0	0	0
North Dakota	117	909	-87.0%	117	909	0	0	0	0	0	0
South Dakota	0	435	-100.0%	0	435	0	0	0	0	0	0
South Atlantic	197,047	218,119	-9.7%	161,350	174,281	32,593	40,257	0	0	3,103	3,580
Delaware	2,007	6,060	-67.0%	0	0	2,007	4,835	0	0	0	1,225
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	99,984	106,071	-5.7%	97,361	99,706	2,433	6,364	0	0	190	0
Georgia	26,659	32,413	-18.0%	20,580	24,626	5,392	7,035	0	0	687	752
Maryland	5,120	5,272	-2.9%	0	0	4,864	5,095	0	0	256	177
North Carolina	22,018	24,099	-8.6%	19,000	19,869	2,762	4,219	0	0	256	12
South Carolina	10,450	13,489	-23.0%	8,666	11,218	1,651	2,155	0	0	133	115
Virginia	28,297	28,954	-2.3%	15,395	18,765	12,010	9,525	0	0	892	663
West Virginia	2,512	1,761	43.0%	350	96	1,474	1,029	0	0	688	636
East South Central	66,744	91,015	-27.0%	43,077	59,762	22,045	30,186	0	0	1,623	1,067
Alabama	30,373	38,845	-22.0%	11,134	11,588	19,240	27,257	0	0	0	0
Kentucky	3,692	5,398	-32.0%	2,879	4,785	813	612	0	0	0	0
Mississippi	25,430	36,827	-31.0%	23,438	34,510	1,992	2,317	0	0	0	0
Tennessee	7,249	9,946	-27.0%	5,626	8,879	0	0	0	0	1,623	1,067
West South Central	185,142	255,838	-28.0%	43,432	80,877	99,118	123,966	0	0	42,592	50,995
Arkansas	5,092	8,839	-42.0%	1	4,212	4,956	4,517	0	0	136	110
Louisiana	37,787	45,697	-17.0%	18,774	24,875	3,157	3,032	0	0	15,857	17,790
Oklahoma	18,135	25,408	-29.0%	8,951	16,825	8,988	8,509	0	0	196	75
Texas	124,128	175,893	-29.0%	15,707	34,964	82,018	107,908	0	0	26,403	33,020
Mountain	58,152	63,328	-8.2%	45,488	44,783	12,603	18,476	0	0	60	69
Arizona	24,408	28,331	-14.0%	14,699	14,157	9,709	14,174	0	0	0	0
Colorado	8,339	6,412	30.0%	6,996	5,499	1,343	913	0	0	0	0
Idaho	0	2,506	-100.0%	0	1,359	0	1,146	0	0	0	0
Montana	302	317	-4.8%	302	317	0	0	0	0	0	0
Nevada	15,902	15,458	2.9%	15,902	15,458	0	0	0	0	0	0
New Mexico	5,854	6,285	-6.9%	4,446	4,097	1,408	2,188	0	0	0	0
Utah	3,260	4,007	-19.0%	3,057	3,884	143	54	0	0	60	69
Wyoming	87	12	617.0%	87	12	0	0	0	0	0	0
Pacific Contiguous	66,011	78,748	-16.0%	25,102	33,474	38,508	42,674	0	0	2,401	2,600
California	56,271	56,417	-0.3%	20,536	21,225	33,334	32,592	0	0	2,401	2,600
Oregon	6,886	13,072	-47.0%	1,712	6,804	5,174	6,268	0	0	0	0
Washington	2,854	9,258	-69.0%	2,854	5,445	0	3,813	0	0	0	0
Pacific Noncontiguous	107	1,094	-90.0%	107	1,094	0	0	0	0	0	0
Alaska	107	1,094	-90.0%	107	1,094	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	733,551	935,630	-22.0%	350,495	442,147	330,729	433,556	685	591	51,642	59,335

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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) September 2017 and 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	205,134	298,050	-31.0%	876	1,838	204,258	296,212	0	0	0	0
Connecticut	72,212	90,494	-20.0%	0	0	72,212	90,494	0	0	0	0
Maine	59	18,849	-100.0%	0	0	59	18,849	0	0	0	0
Massachusetts	100,986	124,360	-19.0%	547	1,387	100,439	122,973	0	0	0	0
New Hampshire	21,058	26,232	-20.0%	329	451	20,729	25,781	0	0	0	0
Rhode Island	10,818	38,115	-72.0%	0	0	10,818	38,115	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	658,294	950,306	-31.0%	63,569	83,568	592,276	864,973	0	0	2,449	1,765
New Jersey	110,950	244,311	-55.0%	0	0	110,950	244,311	0	0	0	0
New York	247,611	339,101	-27.0%	63,569	83,568	183,185	254,897	0	0	856	637
Pennsylvania	299,733	366,894	-18.0%	0	0	298,141	365,766	0	0	1,592	1,129
East North Central	446,730	669,879	-33.0%	170,426	300,707	261,783	356,955	4,401	4,885	10,120	7,332
Illinois	49,449	109,506	-55.0%	192	10,933	49,218	98,545	0	0	39	28
Indiana	82,203	111,948	-27.0%	67,456	90,905	14,747	21,043	0	0	0	0
Michigan	133,013	188,647	-29.0%	28,851	69,345	95,407	110,239	4,401	4,885	4,354	4,178
Ohio	133,204	163,733	-19.0%	34,921	45,104	94,657	118,037	0	0	3,626	592
Wisconsin	48,862	96,046	-49.0%	39,007	84,421	7,754	9,090	0	0	2,101	2,534
West North Central	34,685	145,950	-76.0%	30,223	121,897	359	21,772	1,167	1,168	2,937	1,113
Iowa	14,506	23,954	-39.0%	11,680	23,937	0	0	0	0	2,826	17
Kansas	11,511	13,833	-17.0%	11,511	13,833	0	0	0	0	0	0
Minnesota	865	54,614	-98.0%	390	42,484	359	11,043	5	8	111	1,079
Missouri	4,935	37,654	-87.0%	3,774	25,766	0	10,729	1,162	1,160	0	0
Nebraska	1,795	3,217	-44.0%	1,795	3,199	0	0	0	0	0	18
North Dakota	1,073	7,938	-86.0%	1,073	7,938	0	0	0	0	0	0
South Dakota	0	4,740	-100.0%	0	4,740	0	0	0	0	0	0
South Atlantic	1,626,430	1,893,489	-14.0%	1,371,282	1,520,382	229,643	344,329	0	0	25,506	28,778
Delaware	23,399	49,642	-53.0%	0	0	23,399	39,216	0	0	0	10,426
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	818,893	909,437	-10.0%	805,046	838,860	12,234	70,577	0	0	1,613	0
Georgia	234,677	311,676	-25.0%	182,833	233,332	45,032	71,205	0	0	6,811	7,140
Maryland	30,439	43,227	-30.0%	0	0	28,722	41,575	0	0	1,718	1,652
North Carolina	192,895	228,763	-16.0%	168,451	197,900	23,169	30,729	0	0	1,275	135
South Carolina	84,650	98,848	-14.0%	72,173	80,633	11,684	16,782	0	0	792	1,432
Virginia	229,329	241,668	-5.1%	141,425	168,381	80,715	67,499	0	0	7,189	5,788
West Virginia	12,149	10,228	19.0%	1,353	1,277	4,687	6,746	0	0	6,109	2,205
East South Central	586,488	730,844	-20.0%	388,158	481,351	184,563	241,570	0	0	13,767	7,923
Alabama	251,246	304,276	-17.0%	90,059	88,667	161,187	215,609	0	0	0	0
Kentucky	38,359	52,738	-27.0%	35,325	47,729	3,034	5,009	0	0	0	0
Mississippi	230,857	296,068	-22.0%	210,515	275,115	20,342	20,953	0	0	0	0
Tennessee	66,025	77,763	-15.0%	52,259	69,840	0	0	0	0	13,767	7,923
West South Central	1,628,748	2,269,287	-28.0%	369,606	707,528	862,590	1,097,835	0	0	396,553	463,924
Arkansas	56,302	107,499	-48.0%	41	41,832	54,837	63,930	0	0	1,424	1,737
Louisiana	326,088	421,710	-23.0%	152,799	220,174	26,083	40,778	0	0	147,206	160,758
Oklahoma	159,000	219,598	-28.0%	92,255	154,110	65,228	64,855	0	0	1,518	633
Texas	1,087,358	1,520,480	-28.0%	124,511	291,413	716,442	928,271	0	0	246,405	300,796
Mountain	464,656	553,982	-16.0%	377,013	428,989	87,078	124,406	0	0	565	587
Arizona	171,851	211,978	-19.0%	114,355	125,752	57,496	86,226	0	0	0	0
Colorado	69,742	72,961	-4.4%	59,279	61,401	10,463	11,561	0	0	0	0
Idaho	0	17,404	-100.0%	0	10,724	0	6,680	0	0	0	0
Montana	2,399	2,720	-12.0%	2,399	2,707	0	13	0	0	0	0
Nevada	137,256	149,054	-7.9%	137,256	149,054	0	0	0	0	0	0
New Mexico	52,856	56,392	-6.3%	34,874	37,344	17,983	19,048	0	0	0	0
Utah	29,761	43,334	-31.0%	28,073	41,880	1,123	867	0	0	565	587
Wyoming	790	140	464.0%	777	128	13	12	0	0	0	0
Pacific Contiguous	468,903	578,629	-19.0%	180,502	228,296	264,909	328,332	0	0	23,493	22,002
California	410,610	445,329	-7.8%	153,734	158,267	233,383	265,061	0	0	23,493	22,002
Oregon	39,904	78,850	-49.0%	8,377	37,382	31,526	41,468	0	0	0	0
Washington	18,390	54,450	-66.0%	18,390	32,647	0	21,803	0	0	0	0
Pacific Noncontiguous	1,005	10,021	-90.0%	1,005	10,021	0	0	0	0	0	0
Alaska	1,005	10,021	-90.0%	1,005	10,021	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,121,073	8,100,438	-24.0%	2,952,659	3,884,578	2,687,457	3,676,383	5,568	6,053	475,388	533,425

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

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

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016
New England	W	W	W	--	4.09	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	4.09	--	--	4.09	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.91	1.91	0.0%	1.67	--	1.92	1.91
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.85	W	1.67	--	W	1.85
East North Central	1.99	2.12	-6.1%	2.07	2.23	1.88	1.92
Illinois	W	W	W	1.84	1.93	W	W
Indiana	W	W	W	2.11	2.26	W	W
Michigan	W	W	W	2.10	2.24	W	W
Ohio	1.90	2.05	-7.3%	1.71	1.86	1.96	2.14
Wisconsin	2.15	2.41	-11.0%	2.15	2.41	--	--
West North Central	1.73	1.73	0.0%	1.73	1.73	--	--
Iowa	1.57	1.58	-0.6%	1.57	1.58	--	--
Kansas	1.65	1.65	0.0%	1.65	1.65	--	--
Minnesota	2.07	2.07	0.0%	2.07	2.07	--	--
Missouri	1.85	1.86	-0.5%	1.85	1.86	--	--
Nebraska	1.36	1.37	-0.7%	1.36	1.37	--	--
North Dakota	1.61	1.64	-1.8%	1.61	1.64	--	--
South Dakota	2.24	2.27	-1.3%	2.24	2.27	--	--
South Atlantic	2.69	2.76	-2.5%	2.72	2.80	2.50	2.58
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.85	W	W	2.85	2.98	--	W
Georgia	2.80	2.77	1.1%	2.80	2.77	--	--
Maryland	2.55	2.93	-13.0%	--	--	2.55	2.93
North Carolina	W	W	W	2.95	3.14	W	W
South Carolina	3.34	3.09	8.1%	3.34	3.09	--	--
Virginia	W	2.90	W	2.94	2.88	W	3.15
West Virginia	W	2.24	W	2.19	2.30	W	2.03
East South Central	W	W	W	2.15	2.18	W	W
Alabama	2.20	2.18	0.9%	2.20	2.18	--	--
Kentucky	2.03	2.12	-4.2%	2.03	2.12	--	--
Mississippi	W	W	W	2.32	2.83	W	W
Tennessee	2.64	2.27	16.0%	2.64	2.27	--	--
West South Central	1.78	1.92	-7.3%	1.91	2.15	1.66	1.72
Arkansas	W	W	W	1.92	2.16	W	W
Louisiana	W	W	W	2.06	2.88	W	W
Oklahoma	W	W	W	1.75	1.89	W	W
Texas	1.74	1.84	-5.4%	1.99	2.11	1.61	1.69
Mountain	W	W	W	1.91	1.90	W	W
Arizona	2.22	2.14	3.7%	2.22	2.14	--	--
Colorado	1.65	1.94	-15.0%	1.65	1.94	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.77	1.54	W	W
Nevada	W	W	W	--	2.17	W	W
New Mexico	1.92	1.91	0.5%	1.92	1.91	--	--
Utah	1.96	1.92	2.1%	1.96	1.92	--	--
Wyoming	W	W	W	1.78	1.59	W	W
Pacific Contiguous	W	W	W	2.24	2.12	W	W
California	--	--	--	--	--	--	--
Oregon	2.24	2.12	5.7%	2.24	2.12	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	3.06	W	W	3.06	3.02	--	W
Alaska	3.06	3.02	1.3%	3.06	3.02	--	--
Hawaii	--	W	W	--	--	--	W
U.S. Total	2.02	2.11	-4.3%	2.08	2.18	1.84	1.91

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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) September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	W	3.06	W	4.34	4.05	W	2.87
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	4.05	7.2%	4.34	4.05	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.97	1.97	0.0%	1.66	--	1.97	1.97
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.91	1.91	0.0%	1.66	--	1.91	1.91
East North Central	2.02	2.10	-3.8%	2.11	2.18	1.89	1.96
Illinois	W	W	W	1.85	2.01	W	W
Indiana	W	W	W	2.16	2.25	W	W
Michigan	W	W	W	2.15	2.26	W	W
Ohio	1.93	2.06	-6.3%	1.73	1.90	1.99	2.13
Wisconsin	2.25	2.22	1.4%	2.25	2.22	--	--
West North Central	1.76	1.72	2.3%	1.76	1.72	--	--
Iowa	1.68	1.61	4.3%	1.68	1.61	--	--
Kansas	1.71	1.70	0.6%	1.71	1.70	--	--
Minnesota	2.09	2.07	1.0%	2.09	2.07	--	--
Missouri	1.86	1.86	0.0%	1.86	1.86	--	--
Nebraska	1.37	1.35	1.5%	1.37	1.35	--	--
North Dakota	1.62	1.56	3.8%	1.62	1.56	--	--
South Dakota	2.26	2.23	1.3%	2.26	2.23	--	--
South Atlantic	2.70	2.76	-2.2%	2.72	2.79	2.50	2.51
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.94	3.03	W	W
Georgia	2.77	2.83	-2.1%	2.77	2.83	--	--
Maryland	2.72	2.83	-3.9%	--	--	2.72	2.83
North Carolina	W	W	W	2.96	3.10	W	W
South Carolina	3.28	3.19	2.8%	3.28	3.19	--	--
Virginia	W	W	W	2.75	2.90	W	W
West Virginia	W	2.27	W	2.21	2.32	W	2.06
East South Central	W	W	W	2.09	2.21	W	W
Alabama	2.18	2.40	-9.2%	2.18	2.40	--	--
Kentucky	1.98	2.12	-6.6%	1.98	2.12	--	--
Mississippi	W	W	W	2.72	2.68	W	W
Tennessee	2.28	2.23	2.2%	2.28	2.23	--	--
West South Central	1.95	1.91	2.1%	2.07	2.16	1.85	1.65
Arkansas	W	W	W	2.07	2.21	W	W
Louisiana	W	W	W	2.33	2.80	W	W
Oklahoma	W	W	W	1.85	1.91	W	W
Texas	1.92	1.79	7.3%	2.10	2.10	1.83	1.61
Mountain	W	W	W	1.91	1.89	W	W
Arizona	2.24	2.14	4.7%	2.24	2.14	--	--
Colorado	1.78	1.90	-6.3%	1.78	1.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.75	1.80	W	W
Nevada	W	W	W	3.08	2.02	W	W
New Mexico	1.98	1.82	8.8%	1.98	1.82	--	--
Utah	1.96	1.95	0.5%	1.96	1.95	--	--
Wyoming	W	W	W	1.68	1.71	W	W
Pacific Contiguous	W	W	W	2.31	2.27	W	W
California	--	--	--	--	--	--	--
Oregon	2.31	2.27	1.8%	2.31	2.27	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.06	3.10	W	W
Alaska	3.06	3.10	-1.3%	3.06	3.10	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.08	2.12	-1.9%	2.13	2.17	1.94	1.94

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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, September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016
New England	W	W	W	--	9.98	W	W
Connecticut	--	11.71	--	--	--	--	11.71
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	9.98	--	--	9.98	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	14.54	W	W	--	10.90	14.54	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	10.90	W	W
Pennsylvania	W	10.68	W	--	--	W	10.68
East North Central	14.33	10.37	38.0%	14.16	11.45	15.03	9.59
Illinois	W	W	W	--	--	W	W
Indiana	14.09	11.09	27.0%	14.09	11.09	--	--
Michigan	13.77	11.61	19.0%	13.77	11.61	--	--
Ohio	W	9.92	W	15.19	11.55	W	9.43
Wisconsin	15.12	W	W	15.12	11.52	--	W
West North Central	14.08	11.62	21.0%	14.08	11.62	--	--
Iowa	14.00	11.37	23.0%	14.00	11.37	--	--
Kansas	14.00	11.87	18.0%	14.00	11.87	--	--
Minnesota	13.85	11.63	19.0%	13.85	11.63	--	--
Missouri	14.15	11.78	20.0%	14.15	11.78	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	14.67	12.17	21.0%	14.67	12.17	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	14.35	11.37	26.0%	14.44	11.05	13.77	11.71
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	15.38	11.51	34.0%	15.38	11.51	--	--
Georgia	14.02	10.67	31.0%	14.02	10.67	--	--
Maryland	W	10.53	W	--	--	W	10.53
North Carolina	14.38	W	W	14.38	11.27	--	W
South Carolina	14.82	12.38	20.0%	14.82	12.38	--	--
Virginia	W	W	W	12.33	9.67	W	W
West Virginia	14.81	11.63	27.0%	14.81	11.63	--	--
East South Central	14.02	11.35	24.0%	14.02	11.35	--	--
Alabama	14.82	11.87	25.0%	14.82	11.87	--	--
Kentucky	14.34	11.50	25.0%	14.34	11.50	--	--
Mississippi	13.53	10.79	25.0%	13.53	10.79	--	--
Tennessee	13.72	11.11	23.0%	13.72	11.11	--	--
West South Central	W	12.67	W	12.86	10.92	W	14.53
Arkansas	W	W	W	13.70	--	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	14.73	12.12	22.0%	14.73	12.12	--	--
Texas	W	W	W	12.35	10.63	W	W
Mountain	W	12.21	W	15.09	11.98	W	13.50
Arizona	14.26	11.62	23.0%	14.26	11.62	--	--
Colorado	--	11.90	--	--	11.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	13.03	11.80	W	W
New Mexico	16.11	12.50	29.0%	16.11	12.50	--	--
Utah	16.31	W	W	16.31	13.44	--	W
Wyoming	15.09	11.64	30.0%	15.09	11.64	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.94	8.37	W	W
Alaska	--	--	--	--	--	--	--
Hawaii	W	W	W	10.94	8.37	W	W
U.S. Total	W	9.36	W	11.75	9.00	W	10.16

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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 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) September 2017 and 2016 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	11.99	8.56	40.0%	13.97	9.59	11.89	8.16
Connecticut	W	9.48	W	--	--	W	9.48
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	13.97	9.63	45.0%	13.97	9.63	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	10.91	W	9.22	10.17	W	10.98
New Jersey	W	9.71	W	--	--	W	9.71
New York	12.98	11.69	11.0%	9.22	10.17	20.50	12.01
Pennsylvania	W	10.11	W	--	--	W	10.11
East North Central	12.49	W	W	12.49	10.40	12.49	W
Illinois	12.87	10.56	22.0%	12.12	10.50	12.90	10.57
Indiana	12.33	10.21	21.0%	12.33	10.21	--	--
Michigan	12.21	10.24	19.0%	12.21	10.24	--	--
Ohio	12.67	W	W	13.38	10.49	12.31	W
Wisconsin	12.03	W	W	12.03	11.52	--	W
West North Central	12.34	10.09	22.0%	12.34	10.09	--	--
Iowa	12.54	10.37	21.0%	12.54	10.37	--	--
Kansas	12.34	10.14	22.0%	12.34	10.14	--	--
Minnesota	12.35	11.03	12.0%	12.35	11.03	--	--
Missouri	12.31	10.22	20.0%	12.31	10.22	--	--
Nebraska	11.92	10.74	11.0%	11.92	10.74	--	--
North Dakota	12.15	8.88	37.0%	12.15	8.88	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.21	9.83	24.0%	12.24	9.79	12.01	10.04
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.37	W	W	12.37	11.61	--	W
Georgia	W	9.02	W	11.68	9.31	W	7.68
Maryland	10.97	9.12	20.0%	--	--	10.97	9.12
North Carolina	W	9.37	W	12.22	9.92	W	7.89
South Carolina	12.73	10.80	18.0%	12.73	10.80	--	--
Virginia	W	W	W	10.94	7.90	W	W
West Virginia	12.73	10.93	16.0%	12.73	10.93	--	--
East South Central	W	W	W	12.01	9.97	W	W
Alabama	W	W	W	12.79	9.53	W	W
Kentucky	12.03	10.21	18.0%	12.03	10.21	--	--
Mississippi	11.78	8.95	32.0%	11.78	8.95	--	--
Tennessee	11.78	10.01	18.0%	11.78	10.01	--	--
West South Central	12.27	10.26	20.0%	12.06	9.95	12.46	11.04
Arkansas	W	W	W	12.08	9.56	W	W
Louisiana	--	W	W	--	9.54	--	W
Oklahoma	13.22	12.13	9.0%	13.22	12.13	--	--
Texas	W	W	W	11.95	10.32	W	W
Mountain	13.55	11.05	23.0%	13.55	10.94	13.50	12.05
Arizona	13.09	10.73	22.0%	13.09	10.73	--	--
Colorado	13.60	9.69	40.0%	13.60	9.69	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.34	11.79	W	W
New Mexico	13.27	10.69	24.0%	13.27	10.69	--	--
Utah	W	W	W	14.15	11.23	W	W
Wyoming	13.91	11.36	22.0%	13.91	11.36	--	--
Pacific Contiguous	W	W	W	12.71	11.19	W	W
California	--	--	--	--	--	--	--
Oregon	12.71	11.19	14.0%	12.71	11.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.75	8.12	W	W
Alaska	16.16	12.58	28.0%	16.16	12.58	--	--
Hawaii	W	W	W	10.75	8.11	W	W
U.S. Total	11.43	9.06	26.0%	11.30	8.87	11.87	9.63

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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, September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	W	W	--	--	--	W
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	W	W	--	--	--	W
East North Central	1.50	W	W	1.50	1.36	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.47	1.29	14.0%	1.47	1.29	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.72	4.1%	1.79	1.72	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.81	2.09	34.0%	2.81	2.09	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.81	2.09	34.0%	2.81	2.09	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.16	1.98	9.1%	2.16	1.98	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.16	1.98	9.1%	2.16	1.98	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.12	W	W	2.12	2.00	--	W

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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 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	W	W	--	--	--	W
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	W	W	--	--	--	W
East North Central	1.49	W	W	1.49	1.20	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.46	1.30	12.0%	1.46	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.71	4.7%	1.79	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.55	1.48	72.0%	2.55	1.48	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.55	1.48	72.0%	2.55	1.48	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.50	1.61	-6.8%	1.50	1.61	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.50	1.61	-6.8%	1.50	1.61	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.14	1.31	63.0%	2.14	1.31	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.14	1.31	63.0%	2.14	1.31	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.08	1.49	40.0%	2.08	1.37	--	2.50

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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, September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017	September 2016	Percentage Change	September 2017	September 2016	September 2017	September 2016
New England	W	W	W	3.36	3.87	W	W
Connecticut	2.60	2.84	-8.5%	--	--	2.60	2.84
Maine	W	W	W	--	--	W	W
Massachusetts	2.22	2.92	-24.0%	1.55	3.54	2.22	2.91
New Hampshire	W	W	W	3.42	4.86	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.92	1.75	9.7%	2.39	1.99	1.87	1.72
New Jersey	1.97	1.64	20.0%	--	--	1.97	1.64
New York	2.29	2.12	8.0%	2.39	1.99	2.25	2.16
Pennsylvania	1.65	1.45	14.0%	--	--	1.65	1.45
East North Central	3.01	3.01	0.0%	3.08	3.20	2.96	2.87
Illinois	W	3.21	W	3.24	3.40	W	3.18
Indiana	W	W	W	3.11	3.31	W	W
Michigan	3.17	3.20	-0.9%	3.47	3.44	3.08	3.07
Ohio	2.65	2.45	8.2%	2.33	2.50	2.73	2.43
Wisconsin	3.17	W	W	3.17	3.22	--	W
West North Central	W	W	W	3.08	3.26	W	W
Iowa	2.69	2.84	-5.3%	2.69	2.84	--	--
Kansas	3.53	3.38	4.4%	3.53	3.38	--	--
Minnesota	W	W	W	3.53	3.79	W	W
Missouri	3.05	W	W	3.05	3.24	--	W
Nebraska	3.86	3.45	12.0%	3.86	3.45	--	--
North Dakota	4.94	2.91	70.0%	4.94	2.91	--	--
South Dakota	--	3.19	--	--	3.19	--	--
South Atlantic	3.78	3.63	4.1%	3.97	3.75	2.52	2.79
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.30	4.00	W	W
Georgia	W	3.47	W	3.51	3.52	W	3.26
Maryland	2.88	2.38	21.0%	--	--	2.88	2.38
North Carolina	W	W	W	3.78	3.84	W	W
South Carolina	W	W	W	3.55	3.53	W	W
Virginia	2.53	W	W	3.04	2.80	1.63	W
West Virginia	W	1.86	W	3.04	2.67	W	1.78
East South Central	3.20	3.15	1.6%	3.17	3.12	3.28	3.24
Alabama	W	W	W	3.27	3.27	W	W
Kentucky	W	W	W	3.65	3.61	W	W
Mississippi	W	W	W	3.11	3.06	W	W
Tennessee	2.99	2.89	3.5%	2.99	2.89	--	--
West South Central	3.04	3.09	-1.6%	3.12	3.21	3.00	2.99
Arkansas	W	W	W	3.03	4.39	W	W
Louisiana	W	W	W	3.18	3.18	W	W
Oklahoma	W	W	W	3.12	3.14	W	W
Texas	3.02	3.03	-0.3%	3.06	3.13	3.00	2.99
Mountain	3.37	3.33	1.2%	3.37	3.38	3.29	2.89
Arizona	W	W	W	3.56	3.61	W	W
Colorado	W	W	W	3.59	3.54	W	W
Idaho	--	3.38	--	--	3.38	--	--
Montana	1.43	1.98	-28.0%	1.43	1.98	--	--
Nevada	3.22	3.25	-0.9%	3.22	3.25	--	--
New Mexico	3.26	3.27	-0.3%	3.26	3.27	--	--
Utah	W	W	W	3.12	3.08	W	W
Wyoming	W	W	W	3.00	10.70	W	W
Pacific Contiguous	3.49	3.14	11.0%	3.74	3.43	3.24	2.82
California	W	3.39	W	3.89	3.91	W	2.94
Oregon	W	W	W	2.50	2.39	W	W
Washington	3.64	W	W	3.64	3.21	--	W
Pacific Noncontiguous	8.09	6.48	25.0%	8.09	6.48	--	--
Alaska	8.09	6.48	25.0%	8.09	6.48	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.20	3.08	3.9%	3.58	3.43	2.68	2.61

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) September 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	September 2017 YTD	September 2016 YTD	Percentage Change	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	W	3.12	W	3.40	3.51	W	3.12
Connecticut	W	3.52	W	--	--	W	3.52
Maine	W	W	W	--	--	W	W
Massachusetts	3.30	2.94	12.0%	3.16	3.38	3.30	2.93
New Hampshire	W	W	W	3.79	3.91	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.87	2.10	37.0%	3.43	2.52	2.80	2.05
New Jersey	2.84	2.01	41.0%	--	--	2.84	2.01
New York	3.27	2.51	30.0%	3.43	2.52	3.21	2.51
Pennsylvania	2.54	1.76	44.0%	--	--	2.54	1.76
East North Central	3.09	2.53	22.0%	3.13	2.67	3.07	2.42
Illinois	3.11	2.72	14.0%	3.81	2.96	3.11	2.69
Indiana	W	W	W	3.08	2.79	W	W
Michigan	3.19	2.60	23.0%	3.40	2.79	3.13	2.48
Ohio	2.92	2.14	36.0%	2.80	2.20	2.96	2.12
Wisconsin	W	W	W	3.34	2.66	W	W
West North Central	W	2.78	W	3.24	2.79	W	2.73
Iowa	2.72	2.53	7.5%	2.72	2.53	--	--
Kansas	3.58	3.24	10.0%	3.58	3.24	--	--
Minnesota	W	W	W	3.45	2.92	W	W
Missouri	3.07	W	W	3.07	2.73	--	W
Nebraska	3.77	3.03	24.0%	3.77	3.03	--	--
North Dakota	4.96	2.46	102.0%	4.96	2.46	--	--
South Dakota	--	2.36	--	--	2.36	--	--
South Atlantic	3.87	3.31	17.0%	3.96	3.42	3.08	2.55
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.67	W	4.16	3.69	W	2.76
Georgia	W	2.84	W	3.61	2.90	W	2.63
Maryland	W	2.84	W	--	--	W	2.84
North Carolina	W	W	W	3.98	3.59	W	W
South Carolina	W	W	W	3.53	3.21	W	W
Virginia	3.27	W	W	3.54	2.73	2.48	W
West Virginia	W	W	W	3.01	2.37	W	W
East South Central	3.26	2.69	21.0%	3.25	2.70	3.29	2.68
Alabama	W	W	W	3.40	2.78	W	W
Kentucky	W	W	W	3.70	3.01	W	W
Mississippi	W	W	W	3.17	2.68	W	W
Tennessee	3.05	2.44	25.0%	3.05	2.44	--	--
West South Central	3.10	2.52	23.0%	3.22	2.62	3.04	2.43
Arkansas	W	W	W	3.22	2.95	W	W
Louisiana	W	2.54	W	3.28	2.58	W	2.31
Oklahoma	W	W	W	3.19	2.62	W	W
Texas	3.07	2.49	23.0%	3.15	2.60	3.05	2.45
Mountain	3.48	2.83	23.0%	3.48	2.84	3.37	2.73
Arizona	W	W	W	3.67	3.04	W	W
Colorado	W	W	W	3.44	2.97	W	W
Idaho	--	2.73	--	--	2.73	--	--
Montana	1.87	W	W	1.87	1.69	--	W
Nevada	3.42	2.76	24.0%	3.42	2.76	--	--
New Mexico	3.42	2.79	23.0%	3.42	2.79	--	--
Utah	W	W	W	3.33	2.49	W	W
Wyoming	W	W	W	3.38	8.20	W	W
Pacific Contiguous	3.60	2.82	28.0%	3.92	3.13	3.28	2.49
California	W	2.94	W	4.03	3.38	W	2.56
Oregon	W	W	W	2.69	2.21	W	W
Washington	3.79	W	W	3.79	3.20	--	W
Pacific Noncontiguous	8.09	6.51	24.0%	8.09	6.51	--	--
Alaska	8.09	6.51	24.0%	8.09	6.51	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.41	2.76	24.0%	3.64	3.01	3.07	2.42

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

Notes:
See Glossary for definitions. Values for 2016 are final. Values for 2017 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, September 2017

	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	5	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.67	7.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,369	3.17	9.3	0	--	--	0	--	--
New Jersey	57	1.78	7.7	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,311	3.24	9.4	0	--	--	0	--	--
East North Central	5,168	3.11	10.4	6,580	0.25	4.8	0	--	--
Illinois	788	3.70	21.7	2,416	0.23	4.8	0	--	--
Indiana	2,068	2.82	8.7	179	0.22	4.6	0	--	--
Michigan	110	2.10	7.5	2,356	0.28	4.6	0	--	--
Ohio	2,141	3.29	9.1	31	0.22	4.6	0	--	--
Wisconsin	61	2.58	8.5	1,598	0.25	4.9	0	--	--
West North Central	76	3.07	9.3	7,920	0.27	5.0	2,028	0.84	9.4
Iowa	25	3.50	8.2	1,224	0.25	4.7	0	--	--
Kansas	15	2.98	13.3	1,204	0.31	4.9	0	--	--
Minnesota	0	--	--	1,052	0.37	6.0	0	--	--
Missouri	36	2.81	8.5	3,315	0.24	4.8	0	--	--
Nebraska	0	--	--	1,026	0.27	5.1	0	--	--
North Dakota	0	--	--	0	--	--	2,028	0.84	9.4
South Dakota	0	--	--	99	0.38	5.2	0	--	--
South Atlantic	5,871	2.35	9.9	892	0.35	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,008	2.11	8.5	0	--	--	0	--	--
Georgia	644	2.56	7.7	892	0.35	4.9	0	--	--
Maryland	297	2.48	10.5	0	--	--	0	--	--
North Carolina	1,164	1.87	9.2	0	--	--	0	--	--
South Carolina	472	1.84	8.8	0	--	--	0	--	--
Virginia	297	1.25	10.7	0	--	--	0	--	--
West Virginia	1,989	2.96	11.7	0	--	--	0	--	--
East South Central	2,561	2.62	9.4	1,418	0.26	5.0	46	0.55	14.3
Alabama	480	1.78	11.6	803	0.26	5.0	0	--	--
Kentucky	1,744	3.03	9.1	383	0.26	4.8	0	--	--
Mississippi	39	2.92	8.4	116	0.31	5.0	46	0.55	14.3
Tennessee	298	1.51	8.2	117	0.23	4.9	0	--	--
West South Central	50	2.06	16.6	7,895	0.28	5.0	2,794	1.11	17.2
Arkansas	5	0.66	9.0	1,354	0.23	4.7	0	--	--
Louisiana	18	2.87	7.5	493	0.28	4.9	25	0.54	17.0
Oklahoma	26	1.73	25.4	1,490	0.23	4.8	0	--	--
Texas	0	--	--	4,557	0.30	5.2	2,768	1.11	17.2
Mountain	2,069	0.50	13.8	5,136	0.49	8.1	16	0.50	8.3
Arizona	627	0.29	10.5	959	0.51	8.7	0	--	--
Colorado	109	0.45	10.6	1,173	0.31	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	755	0.69	9.6	16	0.50	8.3
Nevada	0	--	--	45	0.31	5.6	0	--	--
New Mexico	493	0.75	21.3	235	0.81	20.4	0	--	--
Utah	841	0.54	12.6	40	1.02	8.2	0	--	--
Wyoming	0	--	--	1,930	0.48	7.3	0	--	--
Pacific Contiguous	55	0.47	10.8	576	0.41	7.7	0	--	--
California	55	0.47	10.8	0	--	--	0	--	--
Oregon	0	--	--	150	0.25	4.9	0	--	--
Washington	0	--	--	426	0.46	8.7	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	8	0.12	6.5
Alaska	0	--	--	0	--	--	8	0.12	6.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	17,223	2.48	10.4	30,416	0.31	5.5	4,892	0.99	13.8

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, September 2017

	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	31	4.10	10.4	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	31	4.10	10.4	0	--	--	0	--	--
East North Central	2,694	2.88	8.7	4,477	0.26	4.7	0	--	--
Illinois	154	3.19	10.9	344	0.21	4.6	0	--	--
Indiana	1,933	2.77	8.6	179	0.22	4.6	0	--	--
Michigan	62	2.67	8.0	2,356	0.28	4.6	0	--	--
Ohio	497	3.20	8.6	0	--	--	0	--	--
Wisconsin	47	3.12	8.1	1,598	0.25	4.9	0	--	--
West North Central	47	2.86	10.0	7,681	0.28	5.0	2,028	0.84	9.4
Iowa	0	--	--	1,107	0.25	4.8	0	--	--
Kansas	15	2.98	13.3	1,204	0.31	4.9	0	--	--
Minnesota	0	--	--	993	0.37	6.0	0	--	--
Missouri	32	2.80	8.5	3,315	0.24	4.8	0	--	--
Nebraska	0	--	--	963	0.27	5.2	0	--	--
North Dakota	0	--	--	0	--	--	2,028	0.84	9.4
South Dakota	0	--	--	99	0.38	5.2	0	--	--
South Atlantic	5,055	2.30	9.6	892	0.35	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	997	2.12	8.5	0	--	--	0	--	--
Georgia	634	2.58	7.7	892	0.35	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,131	1.90	9.3	0	--	--	0	--	--
South Carolina	472	1.84	8.8	0	--	--	0	--	--
Virginia	249	1.33	11.1	0	--	--	0	--	--
West Virginia	1,573	2.87	11.1	0	--	--	0	--	--
East South Central	2,483	2.68	9.5	1,418	0.26	5.0	0	--	--
Alabama	480	1.78	11.6	803	0.26	5.0	0	--	--
Kentucky	1,744	3.03	9.1	383	0.26	4.8	0	--	--
Mississippi	39	2.92	8.4	116	0.31	5.0	0	--	--
Tennessee	220	1.78	8.7	117	0.23	4.9	0	--	--
West South Central	18	2.87	7.5	4,489	0.25	4.9	718	1.63	21.6
Arkansas	0	--	--	1,138	0.23	4.7	0	--	--
Louisiana	18	2.87	7.5	264	0.26	4.9	25	0.54	17.0
Oklahoma	0	--	--	1,390	0.23	4.8	0	--	--
Texas	0	--	--	1,698	0.28	5.0	693	1.68	21.7
Mountain	2,050	0.50	13.8	4,292	0.46	7.8	16	0.50	8.3
Arizona	627	0.29	10.5	959	0.51	8.7	0	--	--
Colorado	109	0.45	10.6	1,173	0.31	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	16	0.50	8.3
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	493	0.75	21.3	235	0.81	20.4	0	--	--
Utah	822	0.54	12.7	40	1.02	8.2	0	--	--
Wyoming	0	--	--	1,886	0.48	7.3	0	--	--
Pacific Contiguous	0	--	--	150	0.25	4.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	150	0.25	4.9	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	8	0.12	6.5
Alaska	0	--	--	0	--	--	8	0.12	6.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,379	2.24	10.0	23,399	0.30	5.5	2,771	1.03	12.3

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 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, September 2017

	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	5	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.67	7.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,338	3.15	9.3	0	--	--	0	--	--
New Jersey	57	1.78	7.7	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,280	3.21	9.4	0	--	--	0	--	--
East North Central	2,368	3.38	12.4	2,055	0.22	4.7	0	--	--
Illinois	542	3.88	28.5	2,025	0.22	4.7	0	--	--
Indiana	135	3.54	9.4	0	--	--	0	--	--
Michigan	47	1.25	6.6	0	--	--	0	--	--
Ohio	1,644	3.31	9.2	31	0.22	4.6	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	745	2.85	12.1	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	283	2.51	10.0	0	--	--	0	--	--
North Carolina	12	0.78	6.7	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	34	0.90	9.5	0	--	--	0	--	--
West Virginia	416	3.33	14.1	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	46	0.55	14.3
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	46	0.55	14.3
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	26	1.73	25.4	3,375	0.31	5.2	2,075	0.95	15.9
Arkansas	0	--	--	216	0.24	4.7	0	--	--
Louisiana	0	--	--	230	0.31	4.9	0	--	--
Oklahoma	26	1.73	25.4	70	0.28	4.8	0	--	--
Texas	0	--	--	2,859	0.32	5.3	2,075	0.95	15.9
Mountain	0	--	--	844	0.65	9.2	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	755	0.69	9.6	0	--	--
Nevada	0	--	--	45	0.31	5.6	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.45	6.6	0	--	--
Pacific Contiguous	0	--	--	426	0.46	8.7	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	426	0.46	8.7	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	4,481	3.20	11.4	6,701	0.34	5.8	2,121	0.94	15.8

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, September 2017

	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	3	2.96	8.3	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	3	2.96	8.3	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	3	2.96	8.3	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 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, September 2017

	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	107	3.22	8.9	47	0.80	6.5	0	--	--
Illinois	93	3.67	8.7	47	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.71	7.9	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	14	0.50	10.0	0	--	--	0	--	--
West North Central	25	3.50	8.2	239	0.22	4.7	0	--	--
Iowa	25	3.50	8.2	117	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	59	0.22	5.2	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	63	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	71	1.00	10.2	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.71	7.8	0	--	--	0	--	--
Georgia	10	1.27	10.6	0	--	--	0	--	--
Maryland	14	1.74	21.7	0	--	--	0	--	--
North Carolina	21	0.80	7.0	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	15	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	78	0.84	7.1	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	78	0.84	7.1	0	--	--	0	--	--
West South Central	5	0.66	9.0	30	0.21	4.7	0	--	--
Arkansas	5	0.66	9.0	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	30	0.21	4.7	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	20	0.46	9.6	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	20	0.46	9.6	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	55	0.47	10.8	0	--	--	0	--	--
California	55	0.47	10.8	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	360	1.61	9.0	317	0.30	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 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers:

Total by End-Use Sector, 2007 - September 2017 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
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
Year 2015					
January	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
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	128,998	108,928	75,783	666	314,375
February	101,149	99,207	71,933	636	272,925
March	103,205	106,683	77,550	644	288,082
April	90,781	101,372	75,851	590	268,593
May	98,757	109,456	80,072	583	288,868
June	121,782	118,815	82,147	629	323,373
July	148,890	127,902	84,213	630	361,635
August	141,745	127,573	85,814	641	355,773
Sept	118,803	118,293	80,163	619	317,879
Year to Date					
2015	1,100,399	1,036,960	746,540	5,777	2,889,677
2016	1,095,025	1,038,997	738,080	5,640	2,877,742
2017	1,054,110	1,018,230	713,525	5,638	2,791,503
Rolling 12 Months Ending in September					
2016	1,398,722	1,362,788	978,048	7,499	3,747,057
2017	1,370,143	1,346,425	952,160	7,495	3,676,223

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 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, 2007 - September 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	148,295	128,903	65,712	792	343,703
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
Year 2015					
January	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
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	15,757	11,140	4,984	62	31,944
February	12,932	10,396	4,760	60	28,148
March	13,309	11,174	5,220	61	29,764
April	11,523	10,540	5,015	56	27,135
May	12,857	11,586	5,453	56	29,952
June	16,098	13,062	5,926	64	35,149
July	19,534	14,065	6,180	64	39,843
August	18,699	14,086	6,215	65	39,064
Sept	15,801	13,087	5,783	62	34,733
Year to Date					
2015	139,456	111,134	52,211	589	303,390
2016	137,712	108,683	50,110	546	297,051
2017	136,510	109,136	49,536	549	295,731
Rolling 12 Months Ending in September					
2016	175,879	142,330	66,065	728	385,003
2017	175,874	143,096	65,494	725	385,189

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 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, 2007 - September 2017 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	10.65	9.65	6.39	9.70	9.13
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
Year 2015					
January	12.10	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
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	12.22	10.23	6.58	9.38	10.16
February	12.78	10.48	6.62	9.47	10.31
March	12.90	10.47	6.73	9.47	10.33
April	12.69	10.40	6.61	9.44	10.10
May	13.02	10.59	6.81	9.58	10.37
June	13.22	10.99	7.21	10.14	10.87
July	13.12	11.00	7.34	10.13	11.02
August	13.19	11.04	7.24	10.07	10.98
Sept	13.30	11.06	7.21	10.01	10.93
Year to Date					
2015	12.67	10.72	6.99	10.19	10.50
2016	12.58	10.46	6.79	9.69	10.32
2017	12.95	10.72	6.94	9.74	10.59
Rolling 12 Months Ending in September					
2016	12.57	10.44	6.75	9.71	10.27
2017	12.84	10.63	6.88	9.67	10.48

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 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, September 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	3,641	4,315	4,483	4,739	1,456	1,546	43	47	9,623	10,647
Connecticut	933	1,200	1,057	1,172	273	305	15	18	2,279	2,696
Maine	371	391	360	373	246	246	0	0	977	1,011
Massachusetts	1,599	1,877	2,219	2,297	572	638	26	26	4,416	4,838
New Hampshire	326	409	373	415	185	181	0	0	884	1,005
Rhode Island	260	274	308	308	63	60	2	2	633	643
Vermont	152	164	166	173	116	116	0	0	434	454
Middle Atlantic	10,503	12,661	13,461	14,494	6,050	6,219	321	336	30,335	33,710
New Jersey	2,422	2,723	3,250	3,409	565	589	25	25	6,262	6,746
New York	4,201	5,109	6,595	7,204	1,530	1,499	238	238	12,564	14,050
Pennsylvania	3,880	4,829	3,616	3,881	3,955	4,131	58	73	11,509	12,914
East North Central	14,254	15,693	15,635	16,238	15,596	16,394	50	51	45,534	48,376
Illinois	3,796	3,945	4,329	4,503	3,582	3,702	45	47	11,752	12,197
Indiana	2,454	2,804	2,057	2,160	3,361	3,816	2	2	7,873	8,782
Michigan	2,534	2,828	3,329	3,371	2,597	2,507	1	0	8,461	8,706
Ohio	3,773	4,485	3,932	4,172	3,989	4,296	2	2	11,696	12,956
Wisconsin	1,697	1,631	1,988	2,032	2,066	2,073	0	0	5,752	5,736
West North Central	7,922	8,332	8,732	8,828	7,431	7,668	4	4	24,089	24,831
Iowa	982	1,081	978	997	1,944	1,853	0	0	3,905	3,931
Kansas	1,241	1,270	1,381	1,445	907	968	0	0	3,528	3,683
Minnesota	1,629	1,610	2,000	1,952	1,767	1,838	2	2	5,398	5,402
Missouri	2,734	3,019	2,664	2,762	984	1,159	2	2	6,384	6,941
Nebraska	731	740	821	797	952	983	0	0	2,505	2,520
North Dakota	286	287	482	482	632	622	0	0	1,401	1,390
South Dakota	318	325	405	392	244	246	0	0	968	963
South Atlantic	29,876	33,632	26,865	28,282	11,384	11,680	104	104	68,228	73,698
Delaware	404	468	379	353	200	188	0	0	982	1,009
District of Columbia	202	285	672	665	15	15	29	26	918	991
Florida	11,587	12,299	8,298	8,831	1,347	1,407	6	8	21,238	22,544
Georgia	4,905	5,689	4,095	4,448	2,585	2,690	14	15	11,599	12,842
Maryland	1,948	2,275	2,433	2,583	301	310	43	39	4,725	5,207
North Carolina	4,553	5,280	4,245	4,549	2,214	2,300	0	1	11,013	12,129
South Carolina	2,502	2,762	1,882	2,011	2,197	2,192	0	0	6,580	6,965
Virginia	3,119	3,735	4,255	4,183	1,380	1,496	12	16	8,765	9,429
West Virginia	655	839	607	661	1,145	1,082	0	0	2,408	2,581
East South Central	9,739	11,645	7,920	8,968	8,243	8,421	0	0	25,902	29,034
Alabama	2,669	3,173	1,999	2,266	2,711	2,664	0	0	7,378	8,103
Kentucky	1,926	2,342	1,610	1,840	2,335	2,358	0	0	5,871	6,540
Mississippi	1,719	1,930	1,303	1,446	1,378	1,342	0	0	4,400	4,717
Tennessee	3,425	4,200	3,009	3,417	1,819	2,057	0	0	8,253	9,674
West South Central	20,700	22,530	17,687	18,888	14,989	15,699	17	18	53,394	57,135
Arkansas	1,586	1,746	1,121	1,183	1,424	1,420	0	0	4,131	4,349
Louisiana	2,952	3,257	2,291	2,413	2,993	3,004	1	1	8,237	8,675
Oklahoma	1,985	2,114	1,789	1,893	1,472	1,536	0	0	5,246	5,543
Texas	14,178	15,413	12,486	13,399	9,101	9,739	16	16	35,780	38,568
Mountain	8,734	8,311	8,553	8,260	7,124	7,033	12	11	24,423	23,615
Arizona	3,470	3,216	2,744	2,656	1,182	1,217	1	1	7,396	7,089
Colorado	1,611	1,571	1,784	1,809	1,386	1,284	5	5	4,786	4,669
Idaho	561	503	506	498	767	766	0	0	1,834	1,767
Montana	339	331	419	391	391	376	0	0	1,149	1,098
Nevada	1,211	1,191	1,025	854	1,133	1,163	1	1	3,370	3,208
New Mexico	586	567	796	775	657	658	0	0	2,039	2,000
Utah	787	762	986	976	762	731	4	5	2,540	2,473
Wyoming	169	171	293	301	846	838	0	0	1,309	1,311
Pacific Contiguous	13,060	11,872	14,472	14,306	7,457	8,166	69	66	35,059	34,411
California	9,489	8,463	10,727	10,712	4,478	4,951	67	64	24,761	24,190
Oregon	1,330	1,228	1,348	1,231	965	1,066	2	2	3,646	3,527
Washington	2,241	2,180	2,397	2,364	2,014	2,149	1	1	6,653	6,693
Pacific Noncontiguous	374	NM	485	490	434	434	0	0	1,293	1,296
Alaska	144	NM	216	221	114	109	0	0	474	470
Hawaii	231	231	270	269	320	325	0	0	820	825
U.S. Total	118,803	129,363	118,293	123,493	80,163	83,259	619	637	317,879	336,752

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2016 are final. Values for 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.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through September 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	34,794	36,024	38,895	40,283	12,410	13,589	415	413	86,515	90,310
Connecticut	9,403	9,893	9,295	9,756	2,350	2,564	133	138	21,182	22,351
Maine	3,502	3,483	3,032	3,038	1,974	2,150	0	0	8,508	8,672
Massachusetts	14,737	15,268	19,041	19,754	5,018	5,694	260	255	39,057	40,972
New Hampshire	3,340	3,424	3,304	3,419	1,470	1,518	0	0	8,114	8,361
Rhode Island	2,306	2,402	2,733	2,790	557	581	21	20	5,617	5,794
Vermont	1,506	1,553	1,489	1,526	1,041	1,081	0	0	4,037	4,160
Middle Atlantic	98,138	104,266	117,276	120,999	53,748	54,427	2,888	2,899	272,050	282,590
New Jersey	21,662	23,105	28,658	29,526	5,290	5,490	231	231	55,841	58,352
New York	37,448	39,479	56,432	58,367	12,782	13,377	2,075	2,070	108,737	113,293
Pennsylvania	39,028	41,682	32,186	33,107	35,676	35,559	581	598	107,472	110,946
East North Central	135,390	145,497	137,631	141,336	138,379	148,037	430	439	411,829	435,309
Illinois	33,426	35,903	37,629	38,720	31,207	33,020	381	389	102,643	108,032
Indiana	23,488	25,572	17,957	18,474	30,579	35,456	15	16	72,039	79,517
Michigan	24,935	26,656	29,292	29,657	22,334	23,555	4	3	76,565	79,872
Ohio	37,466	40,800	34,917	36,369	36,059	37,860	30	31	108,472	115,061
Wisconsin	16,075	16,566	17,836	18,116	18,200	18,145	0	0	52,111	52,827
West North Central	77,005	79,162	76,794	77,817	65,598	67,342	35	34	219,433	224,354
Iowa	10,451	10,818	9,077	9,187	16,833	16,436	0	0	36,362	36,441
Kansas	10,158	10,674	11,726	12,126	8,226	8,606	0	0	30,110	31,406
Minnesota	16,214	16,508	17,401	17,792	15,592	15,878	18	18	49,225	50,195
Missouri	25,712	26,779	23,082	23,472	8,871	10,271	17	16	57,682	60,538
Nebraska	7,522	7,467	7,212	7,028	8,188	8,492	0	0	22,922	22,987
North Dakota	3,455	3,437	4,631	4,663	5,791	5,545	0	0	13,877	13,645
South Dakota	3,493	3,478	3,665	3,549	2,096	2,115	0	0	9,254	9,141
South Atlantic	265,332	282,490	234,871	239,465	103,541	105,959	973	1,007	604,718	628,922
Delaware	3,582	3,759	3,156	3,240	1,600	1,688	0	0	8,338	8,687
District of Columbia	1,862	1,995	6,061	6,416	132	151	250	252	8,306	8,815
Florida	92,158	96,005	71,705	72,568	12,382	12,685	68	72	176,313	181,330
Georgia	42,273	45,672	35,391	36,731	23,582	24,527	127	130	101,373	107,060
Maryland	19,784	21,400	21,870	22,630	2,818	2,879	395	407	44,867	47,317
North Carolina	42,459	45,799	36,493	37,343	20,227	20,706	3	5	99,181	103,853
South Carolina	22,426	24,147	16,530	17,297	20,215	20,190	0	0	59,171	61,634
Virginia	33,053	35,017	38,004	37,287	12,582	13,470	131	140	83,770	85,915
West Virginia	7,735	8,696	5,661	5,953	10,003	9,663	0	0	23,399	24,312
East South Central	86,559	93,090	67,471	71,612	74,949	75,591	0	0	228,980	240,293
Alabama	23,305	25,248	17,178	18,184	24,992	24,566	0	0	65,475	67,998
Kentucky	19,029	20,604	14,261	15,270	20,908	21,176	0	0	54,198	57,050
Mississippi	13,658	14,387	10,502	11,049	12,422	12,097	0	0	36,582	37,533
Tennessee	30,567	32,851	25,531	27,109	16,628	17,753	0	0	72,726	77,713
West South Central	163,751	169,619	144,811	149,322	135,728	137,984	145	143	444,436	457,068
Arkansas	13,200	13,872	9,040	9,238	12,627	12,247	0	0	34,867	35,357
Louisiana	22,682	23,762	18,517	18,791	25,866	27,179	10	9	67,074	69,742
Oklahoma	17,253	17,908	15,257	15,710	13,078	13,582	0	0	45,588	47,199
Texas	110,617	114,078	101,998	105,582	84,157	84,977	135	134	296,907	304,771
Mountain	77,448	75,683	73,909	72,424	62,176	63,544	106	102	213,638	211,754
Arizona	27,679	26,923	22,891	22,709	10,307	11,421	6	5	60,883	61,059
Colorado	14,434	14,466	15,439	15,706	11,713	11,295	50	48	41,635	41,515
Idaho	6,428	5,947	4,789	4,694	7,018	7,045	0	0	18,235	17,686
Montana	3,864	3,591	3,784	3,620	3,291	3,332	0	0	10,939	10,542
Nevada	10,528	10,321	8,658	7,418	9,559	10,422	7	6	28,752	28,167
New Mexico	5,173	5,160	6,788	6,699	5,645	5,692	0	0	17,606	17,552
Utah	7,309	7,251	8,772	8,784	6,962	6,883	43	41	23,086	22,960
Wyoming	2,032	2,024	2,789	2,794	7,680	7,454	0	0	12,502	12,272
Pacific Contiguous	112,219	105,818	122,214	121,377	63,239	67,796	647	602	298,318	295,593
California	70,412	67,713	87,283	87,839	36,167	38,808	624	580	194,486	194,941
Oregon	14,698	13,464	12,425	11,920	8,939	9,589	19	18	36,082	34,991
Washington	27,108	24,640	22,505	21,618	18,133	19,399	4	4	67,750	65,661
Pacific Noncontiguous	3,474	3,376	4,357	4,362	3,756	3,811	0	0	11,587	11,549
Alaska	1,511	NM	2,047	2,027	1,033	1,025	0	0	4,592	4,487
Hawaii	1,962	1,941	2,310	2,335	2,723	2,786	0	0	6,995	7,062
U.S. Total	1,054,110	1,095,025	1,018,230	1,038,997	713,525	738,080	5,638	5,640	2,791,503	2,877,742

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values for 2016 are final. Values for 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.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, September 2017 and 2016 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	722	820	705	733	181	191	4	4	1,612	1,748
Connecticut	199	228	174	183	37	39	2	2	411	452
Maine	59	64	42	45	21	22	0	0	123	131
Massachusetts	327	370	362	374	79	87	1	1	769	832
New Hampshire	64	75	56	60	23	22	0	0	143	157
Rhode Island	47	56	47	46	9	8	0	0	104	110
Vermont	27	29	24	26	12	12	0	0	64	67
Middle Atlantic	1,727	2,051	1,787	1,920	416	444	38	38	3,969	4,454
New Jersey	372	439	403	434	58	63	2	2	834	939
New York	791	938	1,065	1,136	95	93	32	30	1,982	2,197
Pennsylvania	565	674	320	350	264	289	4	6	1,153	1,319
East North Central	1,910	2,062	1,576	1,636	1,083	1,151	3	3	4,572	4,853
Illinois	483	494	380	411	214	245	3	3	1,079	1,153
Indiana	301	344	213	221	249	269	0	0	763	835
Michigan	392	444	362	364	190	178	0	0	943	986
Ohio	477	544	396	422	265	299	0	0	1,139	1,265
Wisconsin	257	236	225	218	165	159	0	0	647	613
West North Central	1,006	1,037	883	875	586	566	0	0	2,475	2,479
Iowa	134	134	102	97	149	133	0	0	385	364
Kansas	168	166	148	150	69	72	0	0	385	388
Minnesota	225	220	224	208	149	131	0	0	599	559
Missouri	312	351	244	260	71	86	0	0	627	697
Nebraska	92	91	78	74	73	74	0	0	243	239
North Dakota	35	34	47	47	56	51	0	0	137	132
South Dakota	41	41	40	39	19	19	0	0	100	99
South Atlantic	3,695	3,954	2,591	2,602	768	789	7	8	7,061	7,354
Delaware	54	61	36	34	15	15	0	0	105	110
District of Columbia	26	33	81	76	1	1	2	3	111	113
Florida	1,407	1,371	814	781	109	111	1	1	2,330	2,264
Georgia	611	682	416	437	159	171	1	1	1,187	1,291
Maryland	271	319	249	280	25	24	3	3	548	626
North Carolina	535	597	377	397	147	156	0	0	1,059	1,150
South Carolina	330	359	205	211	142	144	0	0	677	713
Virginia	383	435	355	325	95	95	1	1	834	856
West Virginia	78	97	58	61	74	71	0	0	210	229
East South Central	1,111	1,280	847	924	506	513	0	0	2,465	2,717
Alabama	348	388	236	250	179	169	0	0	762	807
Kentucky	211	250	161	178	131	140	0	0	503	568
Mississippi	191	195	134	134	86	82	0	0	411	411
Tennessee	361	447	317	361	111	123	0	0	788	931
West South Central	2,276	2,451	1,479	1,573	851	880	1	1	4,608	4,906
Arkansas	170	183	97	100	92	93	0	0	359	375
Louisiana	291	317	206	209	169	166	0	0	666	693
Oklahoma	217	238	150	161	80	83	0	0	446	482
Texas	1,598	1,713	1,027	1,103	511	538	1	1	3,137	3,355
Mountain	1,083	1,012	847	827	498	487	1	1	2,429	2,327
Arizona	453	409	292	291	79	83	0	0	824	782
Colorado	204	202	186	187	104	100	1	1	495	490
Idaho	56	51	40	38	54	52	0	0	151	141
Montana	40	38	43	40	20	19	0	0	103	98
Nevada	146	133	82	68	91	86	0	0	319	288
New Mexico	77	73	84	81	41	39	0	0	202	193
Utah	86	85	90	92	51	50	0	0	228	228
Wyoming	21	20	29	29	58	58	0	0	107	107
Pacific Contiguous	2,174	1,890	2,259	2,100	802	840	7	7	5,242	4,837
California	1,801	1,542	1,937	1,791	645	676	6	7	4,389	4,015
Oregon	146	135	118	110	61	66	0	0	325	311
Washington	227	214	205	199	96	98	0	0	528	511
Pacific Noncontiguous	98	NM	112	107	90	86	0	0	300	286
Alaska	31	NM	41	39	18	16	0	0	90	NM
Hawaii	67	64	71	68	72	70	0	0	210	202
U.S. Total	15,801	16,652	13,087	13,298	5,783	5,947	62	64	34,733	35,961

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 September 2017 and 2016 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	6,731	6,789	5,956	6,138	1,544	1,660	35	35	14,266	14,622
Connecticut	1,906	1,993	1,493	1,537	312	330	15	15	3,725	3,875
Maine	561	549	369	366	181	193	0	0	1,111	1,108
Massachusetts	2,946	2,905	2,978	3,103	684	761	16	15	6,625	6,785
New Hampshire	637	625	485	492	180	187	0	0	1,302	1,304
Rhode Island	416	448	414	419	81	79	4	4	914	949
Vermont	266	268	217	221	105	111	0	0	588	601
Middle Atlantic	15,788	16,347	14,947	15,217	3,719	3,844	328	319	34,783	35,726
New Jersey	3,426	3,660	3,601	3,676	546	569	21	20	7,593	7,925
New York	6,780	6,924	8,444	8,478	758	802	265	252	16,247	16,457
Pennsylvania	5,582	5,763	2,903	3,062	2,416	2,473	42	46	10,943	11,344
East North Central	17,916	18,950	13,904	14,022	9,728	10,223	29	30	41,576	43,226
Illinois	4,221	4,492	3,350	3,493	1,993	2,158	24	26	9,589	10,169
Indiana	2,810	2,974	1,848	1,825	2,257	2,427	2	2	6,917	7,226
Michigan	3,879	4,045	3,235	3,130	1,642	1,620	1	0	8,756	8,795
Ohio	4,640	5,099	3,482	3,611	2,409	2,646	2	2	10,533	11,359
Wisconsin	2,366	2,340	1,990	1,964	1,426	1,372	0	0	5,782	5,676
West North Central	9,428	9,444	7,650	7,519	4,888	4,873	3	3	21,970	21,839
Iowa	1,343	1,318	899	866	1,109	1,043	0	0	3,351	3,227
Kansas	1,353	1,400	1,239	1,279	621	648	0	0	3,213	3,327
Minnesota	2,150	2,096	1,869	1,759	1,224	1,174	2	2	5,244	5,030
Missouri	2,971	3,056	2,206	2,220	639	739	2	1	5,818	6,017
Nebraska	837	822	656	626	631	670	0	0	2,123	2,118
North Dakota	366	353	431	428	501	439	0	0	1,298	1,220
South Dakota	408	399	351	340	163	161	0	0	922	900
South Atlantic	31,867	32,790	22,221	22,164	6,734	6,866	77	80	60,899	61,901
Delaware	479	499	315	326	124	138	0	0	918	962
District of Columbia	238	244	702	750	11	13	23	24	973	1,031
Florida	10,869	10,543	6,854	6,451	979	972	6	6	18,708	17,973
Georgia	5,088	5,336	3,541	3,605	1,395	1,438	7	7	10,031	10,385
Maryland	2,792	3,034	2,355	2,474	234	227	30	32	5,412	5,767
North Carolina	4,743	5,069	3,134	3,235	1,251	1,320	0	0	9,128	9,624
South Carolina	2,883	3,065	1,742	1,782	1,238	1,239	0	0	5,863	6,085
Virginia	3,874	4,009	3,037	2,989	835	887	10	11	7,756	7,896
West Virginia	901	993	542	553	667	632	0	0	2,110	2,178
East South Central	9,762	10,030	7,142	7,244	4,505	4,354	0	0	21,410	21,628
Alabama	2,959	3,011	1,997	2,002	1,569	1,471	0	0	6,525	6,484
Kentucky	2,020	2,138	1,382	1,454	1,168	1,193	0	0	4,570	4,785
Mississippi	1,529	1,496	1,078	1,046	766	692	0	0	3,373	3,235
Tennessee	3,255	3,384	2,685	2,743	1,003	998	0	0	6,943	7,124
West South Central	17,683	17,973	12,143	12,291	7,503	7,304	12	11	37,341	37,579
Arkansas	1,357	1,381	766	763	757	746	0	0	2,880	2,891
Louisiana	2,169	2,212	1,653	1,605	1,402	1,356	1	1	5,225	5,174
Oklahoma	1,815	1,835	1,228	1,209	695	679	0	0	3,738	3,723
Texas	12,342	12,545	8,496	8,713	4,649	4,523	11	11	25,498	25,792
Mountain	9,271	8,863	7,192	6,924	4,111	4,102	11	10	20,584	19,898
Arizona	3,460	3,305	2,439	2,398	676	696	1	1	6,575	6,400
Colorado	1,760	1,747	1,541	1,502	859	826	5	5	4,166	4,080
Idaho	649	595	385	365	483	472	0	0	1,517	1,433
Montana	429	394	385	369	169	169	0	0	984	932
Nevada	1,247	1,171	683	595	609	641	1	1	2,540	2,408
New Mexico	673	618	707	654	345	333	0	0	1,725	1,606
Utah	819	807	779	778	438	447	4	4	2,041	2,036
Wyoming	233	226	272	263	532	516	0	0	1,037	1,005
Pacific Contiguous	17,164	15,706	16,969	16,239	6,017	6,162	56	58	40,205	38,166
California	12,998	11,934	13,964	13,365	4,623	4,724	53	56	31,638	30,079
Oregon	1,574	1,431	1,102	1,059	552	580	2	2	3,230	3,071
Washington	2,592	2,342	1,902	1,815	843	858	0	0	5,337	5,015
Pacific Noncontiguous	899	820	1,012	924	786	723	0	0	2,697	2,467
Alaska	325	NM	401	355	172	153	0	0	897	799
Hawaii	574	530	611	569	614	570	0	0	1,800	1,669
U.S. Total	136,510	137,712	109,136	108,683	49,536	50,110	549	546	295,731	297,051

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values for 2016 are final. Values for 2017 are preliminary estimates based on a cutoff model sample.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, September 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	19.84	19.02	15.73	15.47	12.44	12.34	8.26	8.11	16.75	16.42
Connecticut	21.28	18.98	16.41	15.63	13.48	12.81	11.99	11.06	18.02	16.77
Maine	15.98	16.26	11.73	12.02	8.67	9.05	--	--	12.57	12.94
Massachusetts	20.43	19.69	16.30	16.28	13.82	13.61	5.17	5.08	17.41	17.19
New Hampshire	19.67	18.28	14.93	14.41	12.31	12.33	--	--	16.13	15.61
Rhode Island	17.91	20.47	15.40	14.79	14.73	13.34	20.17	19.37	16.38	17.08
Vermont	17.90	17.58	14.72	14.73	10.20	10.57	--	--	14.62	14.69
Middle Atlantic	16.44	16.20	13.28	13.25	6.88	7.14	11.87	11.40	13.08	13.21
New Jersey	15.34	16.14	12.39	12.74	10.23	10.71	8.60	9.20	13.32	13.92
New York	18.83	18.36	16.14	15.76	6.19	6.18	13.35	12.78	15.78	15.63
Pennsylvania	14.55	13.96	8.85	9.03	6.67	6.99	7.19	7.63	10.01	10.21
East North Central	13.40	13.14	10.08	10.08	6.94	7.02	6.70	6.55	10.04	10.03
Illinois	12.71	12.53	8.77	9.12	5.98	6.63	6.44	6.32	9.19	9.46
Indiana	12.28	12.26	10.36	10.25	7.41	7.06	10.61	9.63	9.70	9.51
Michigan	15.45	15.71	10.87	10.80	7.31	7.11	11.67	11.84	11.15	11.33
Ohio	12.64	12.13	10.07	10.12	6.65	6.95	7.93	8.12	9.74	9.77
Wisconsin	15.14	14.47	11.31	10.72	7.98	7.69	14.12	14.12	11.25	10.69
West North Central	12.70	12.45	10.11	9.91	7.89	7.38	10.71	11.27	10.28	9.98
Iowa	13.61	12.43	10.46	9.71	7.66	7.16	--	--	9.86	9.26
Kansas	13.51	13.05	10.74	10.40	7.58	7.44	--	--	10.90	10.53
Minnesota	13.84	13.69	11.20	10.64	8.45	7.12	10.15	11.00	11.10	10.35
Missouri	11.39	11.62	9.14	9.41	7.24	7.43	11.31	11.57	9.81	10.04
Nebraska	12.58	12.33	9.47	9.30	7.71	7.50	--	--	9.71	9.49
North Dakota	12.17	11.78	9.69	9.79	8.80	8.28	--	--	9.79	9.52
South Dakota	12.79	12.54	9.85	10.02	7.83	7.76	--	--	10.31	10.29
South Atlantic	12.37	11.76	9.64	9.20	6.75	6.75	7.20	7.96	10.35	9.98
Delaware	13.45	13.05	9.55	9.60	7.31	8.21	--	--	10.70	10.94
District of Columbia	13.08	11.72	12.07	11.46	8.32	8.57	7.46	9.55	12.09	11.44
Florida	12.14	11.14	9.81	8.85	8.11	7.91	9.23	8.51	10.97	10.04
Georgia	12.45	11.99	10.15	9.82	6.16	6.36	6.20	5.82	10.23	10.05
Maryland	13.93	14.02	10.25	10.85	8.20	7.78	6.81	7.86	11.61	12.03
North Carolina	11.75	11.31	8.89	8.72	6.64	6.77	8.24	7.52	9.62	9.48
South Carolina	13.17	12.98	10.91	10.47	6.47	6.56	--	--	10.29	10.24
Virginia	12.28	11.64	8.33	7.77	6.91	6.38	8.08	7.31	9.51	9.08
West Virginia	11.91	11.60	9.50	9.31	6.48	6.52	--	--	8.72	8.88
East South Central	11.41	10.99	10.70	10.30	6.14	6.10	--	--	9.52	9.36
Alabama	13.04	12.22	11.80	11.05	6.59	6.34	--	--	10.33	9.96
Kentucky	10.97	10.69	10.00	9.66	5.60	5.92	--	--	8.57	8.68
Mississippi	11.09	10.10	10.30	9.30	6.24	6.08	--	--	9.34	8.71
Tennessee	10.54	10.64	10.52	10.56	6.09	6.00	--	--	9.55	9.63
West South Central	11.00	10.88	8.36	8.33	5.68	5.61	8.09	7.77	8.63	8.59
Arkansas	10.73	10.46	8.67	8.43	6.43	6.56	12.64	12.39	8.69	8.63
Louisiana	9.87	9.74	8.97	8.67	5.66	5.54	9.55	9.35	8.09	7.99
Oklahoma	10.91	11.27	8.37	8.49	5.40	5.39	--	--	8.50	8.69
Texas	11.27	11.11	8.22	8.23	5.61	5.52	7.98	7.65	8.77	8.70
Mountain	12.40	12.17	9.90	10.01	6.99	6.92	10.43	10.29	9.95	9.85
Arizona	13.04	12.71	10.65	10.95	6.70	6.79	10.59	10.60	11.14	11.04
Colorado	12.67	12.84	10.45	10.33	7.52	7.82	10.56	10.96	10.35	10.49
Idaho	10.07	10.24	7.97	7.66	7.00	6.74	--	--	8.21	7.99
Montana	11.72	11.51	10.30	10.36	5.16	5.07	--	--	8.97	8.89
Nevada	12.03	11.17	7.96	8.02	8.06	7.42	9.47	8.36	9.46	8.97
New Mexico	13.19	12.85	10.54	10.45	6.17	5.93	--	--	9.89	9.64
Utah	10.94	11.20	9.13	9.45	6.75	6.90	10.49	9.80	8.98	9.23
Wyoming	12.25	11.75	9.88	9.68	6.82	6.87	--	--	8.21	8.15
Pacific Contiguous	16.64	15.92	15.61	14.68	10.76	10.28	9.42	10.56	14.95	14.06
California	18.98	18.22	18.05	16.72	14.41	13.65	9.43	10.62	17.73	16.60
Oregon	10.97	10.96	8.74	8.96	6.32	6.16	9.40	9.28	8.91	8.81
Washington	10.13	9.80	8.55	8.44	4.78	4.57	8.43	8.46	7.94	7.64
Pacific Noncontiguous	26.19	25.07	23.11	21.80	20.75	19.82	--	--	23.21	22.08
Alaska	21.61	NM	19.08	17.60	15.65	14.98	--	--	19.02	17.87
Hawaii	29.03	27.84	26.34	25.25	22.58	21.43	--	--	25.63	24.47
U.S. Total	13.30	12.87	11.06	10.77	7.21	7.14	10.01	10.00	10.93	10.68

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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.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through September 2017 and 2016 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD	September 2017 YTD	September 2016 YTD
New England	19.35	18.85	15.31	15.24	12.44	12.21	8.34	8.36	16.49	16.19
Connecticut	20.27	20.15	16.06	15.76	13.28	12.85	10.87	11.25	17.59	17.34
Maine	16.01	15.77	12.17	12.04	9.18	8.97	--	--	13.06	12.78
Massachusetts	19.99	19.03	15.64	15.71	13.63	13.37	6.14	5.98	16.96	16.56
New Hampshire	19.06	18.25	14.68	14.38	12.27	12.32	--	--	16.05	15.59
Rhode Island	18.02	18.66	15.15	15.01	14.50	13.51	19.62	18.64	16.28	16.39
Vermont	17.64	17.28	14.58	14.50	10.13	10.25	--	--	14.58	14.44
Middle Atlantic	16.09	15.68	12.75	12.58	6.92	7.06	11.36	10.99	12.79	12.64
New Jersey	15.81	15.84	12.56	12.45	10.32	10.36	9.00	8.85	13.60	13.58
New York	18.11	17.54	14.96	14.53	5.93	6.00	12.78	12.18	14.94	14.53
Pennsylvania	14.30	13.83	9.02	9.25	6.77	6.95	7.20	7.70	10.18	10.22
East North Central	13.23	13.02	10.10	9.92	7.03	6.91	6.71	6.90	10.10	9.93
Illinois	12.63	12.51	8.90	9.02	6.39	6.54	6.40	6.67	9.34	9.41
Indiana	11.96	11.63	10.29	9.88	7.38	6.84	11.29	9.51	9.60	9.09
Michigan	15.55	15.18	11.04	10.55	7.35	6.88	11.97	11.51	11.44	11.01
Ohio	12.38	12.50	9.97	9.93	6.68	6.99	7.59	7.94	9.71	9.87
Wisconsin	14.72	14.13	11.16	10.84	7.84	7.56	14.26	14.45	11.10	10.74
West North Central	12.24	11.93	9.96	9.66	7.45	7.24	9.27	9.50	10.01	9.73
Iowa	12.85	12.18	9.91	9.43	6.59	6.35	--	--	9.21	8.86
Kansas	13.32	13.11	10.57	10.55	7.55	7.53	--	--	10.67	10.59
Minnesota	13.26	12.69	10.74	9.89	7.85	7.39	9.64	10.15	10.65	10.02
Missouri	11.56	11.41	9.56	9.46	7.21	7.20	8.88	8.76	10.09	9.94
Nebraska	11.12	11.01	9.10	8.91	7.70	7.89	--	--	9.26	9.22
North Dakota	10.59	10.26	9.30	9.18	8.66	7.91	--	--	9.35	8.94
South Dakota	11.69	11.48	9.57	9.58	7.78	7.59	--	--	9.96	9.84
South Atlantic	12.01	11.61	9.46	9.26	6.50	6.48	7.87	7.94	10.07	9.84
Delaware	13.38	13.27	9.99	10.05	7.74	8.18	--	--	11.01	11.08
District of Columbia	12.76	12.22	11.58	11.68	8.28	8.86	9.18	9.52	11.72	11.69
Florida	11.79	10.98	9.56	8.89	7.91	7.67	8.54	8.29	10.61	9.91
Georgia	12.04	11.68	10.00	9.81	5.91	5.86	5.50	5.17	9.89	9.70
Maryland	14.11	14.18	10.77	10.93	8.30	7.90	7.70	7.85	12.06	12.19
North Carolina	11.17	11.07	8.59	8.66	6.18	6.37	8.61	7.80	9.20	9.27
South Carolina	12.86	12.69	10.54	10.30	6.13	6.14	--	--	9.91	9.87
Virginia	11.72	11.45	7.99	8.02	6.64	6.58	7.84	7.75	9.26	9.19
West Virginia	11.64	11.42	9.57	9.29	6.67	6.54	--	--	9.02	8.96
East South Central	11.28	10.77	10.59	10.12	6.01	5.76	--	--	9.35	9.00
Alabama	12.70	11.93	11.63	11.01	6.28	5.99	--	--	9.96	9.54
Kentucky	10.61	10.38	9.69	9.52	5.59	5.63	--	--	8.43	8.39
Mississippi	11.20	10.40	10.27	9.47	6.17	5.72	--	--	9.22	8.62
Tennessee	10.65	10.30	10.52	10.12	6.03	5.62	--	--	9.55	9.17
West South Central	10.80	10.60	8.39	8.23	5.53	5.29	8.31	7.95	8.40	8.22
Arkansas	10.28	9.96	8.48	8.26	5.99	6.10	12.14	10.01	8.26	8.18
Louisiana	9.56	9.31	8.93	8.54	5.42	4.99	9.96	9.02	7.79	7.42
Oklahoma	10.52	10.24	8.05	7.70	5.31	5.00	--	--	8.20	7.89
Texas	11.16	11.00	8.33	8.25	5.52	5.32	8.18	7.88	8.59	8.46
Mountain	11.97	11.71	9.73	9.56	6.61	6.46	10.02	9.68	9.64	9.40
Arizona	12.50	12.27	10.66	10.56	6.55	6.09	9.74	10.03	10.80	10.48
Colorado	12.20	12.08	9.98	9.57	7.34	7.31	10.12	9.66	10.01	9.83
Idaho	10.10	10.01	8.04	7.78	6.88	6.71	--	--	8.32	8.10
Montana	11.11	10.97	10.18	10.19	5.14	5.08	--	--	8.99	8.84
Nevada	11.85	11.35	7.89	8.02	6.37	6.15	8.60	7.92	8.83	8.55
New Mexico	13.01	11.98	10.41	9.76	6.12	5.86	--	--	9.80	9.15
Utah	11.20	11.12	8.89	8.85	6.30	6.50	10.17	9.94	8.84	8.87
Wyoming	11.45	11.16	9.76	9.40	6.92	6.93	--	--	8.29	8.19
Pacific Contiguous	15.29	14.84	13.88	13.38	9.52	9.09	8.58	9.69	13.48	12.91
California	18.46	17.62	16.00	15.22	12.78	12.17	8.55	9.71	16.27	15.43
Oregon	10.71	10.63	8.87	8.88	6.18	6.05	9.32	9.25	8.95	8.78
Washington	9.56	9.50	8.45	8.40	4.65	4.42	8.93	8.87	7.88	7.64
Pacific Noncontiguous	25.88	24.29	23.22	21.19	20.93	18.97	--	--	23.28	21.36
Alaska	21.47	NM	19.57	17.53	16.64	14.96	--	--	19.54	17.80
Hawaii	29.27	27.32	26.46	24.36	22.56	20.45	--	--	25.73	23.63
U.S. Total	12.95	12.58	10.72	10.46	6.94	6.79	9.74	9.69	10.59	10.32

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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 - September 2017

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,068,719	18,148,290	838,099	83	150,055,191
Year 2015					
January	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
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	131,864,153	18,225,715	808,008	89	150,897,965
February	131,377,352	18,137,089	797,400	89	150,311,930
March	132,759,395	18,322,577	816,055	89	151,898,116
April	131,802,906	18,162,692	803,220	90	150,768,908
May	133,094,840	18,323,970	829,713	90	152,248,613
June	132,811,865	18,339,933	837,430	90	151,989,318
July	132,297,247	18,345,116	831,767	90	151,474,220
August	132,982,288	18,428,021	847,845	90	152,258,244
Sept	132,409,361	18,344,472	826,683	90	151,580,606
Rolling 12 Months Ending in September					
2016	130,764,548	18,114,484	839,732	82	149,718,846
2017	132,158,598	18,271,767	824,452	88	151,254,906

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 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: September 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	6,351,650	6,322,016	888,299	877,873	26,925	26,512	6	7	7,266,880	7,226,408
Connecticut	1,496,887	1,487,694	153,388	152,441	4,418	4,415	3	4	1,654,696	1,644,554
Maine	715,360	709,464	100,760	99,077	3,157	3,087	0	0	819,277	811,628
Massachusetts	2,762,865	2,757,138	410,458	403,686	14,084	13,697	2	2	3,187,409	3,174,523
New Hampshire	620,263	615,502	107,656	107,391	3,277	3,258	0	0	731,196	726,151
Rhode Island	441,091	439,235	59,734	59,169	1,766	1,827	1	1	502,592	500,232
Vermont	315,184	312,983	56,303	56,109	223	228	0	0	371,710	369,320
Middle Atlantic	16,069,264	15,979,661	2,309,520	2,289,047	42,056	42,834	20	19	18,420,860	18,311,561
New Jersey	3,554,702	3,525,814	517,486	516,010	11,684	11,953	6	6	4,083,878	4,053,783
New York	7,152,876	7,114,888	1,093,558	1,075,977	7,569	7,598	8	7	8,254,011	8,198,470
Pennsylvania	5,361,686	5,338,959	698,476	697,060	22,803	23,283	6	6	6,082,971	6,059,308
East North Central	20,111,395	19,965,054	2,488,595	2,476,578	52,967	54,914	9	8	22,652,966	22,496,554
Illinois	5,277,811	5,234,756	610,086	607,300	5,704	6,087	3	3	5,893,604	5,848,146
Indiana	2,835,752	2,825,344	351,255	351,318	17,762	18,083	1	1	3,204,770	3,194,746
Michigan	4,364,527	4,319,629	548,213	540,515	NM	6,145	2	1	4,918,486	4,866,290
Ohio	4,928,784	4,913,375	622,854	623,919	18,858	19,052	2	2	5,570,498	5,556,348
Wisconsin	2,704,521	2,671,950	356,187	353,526	NM	5,547	1	1	3,065,608	3,031,024
West North Central	9,469,632	9,366,296	1,456,633	1,437,328	115,874	124,994	3	3	11,042,142	10,928,621
Iowa	1,383,486	1,360,567	243,509	236,472	NM	7,697	0	0	1,633,913	1,604,736
Kansas	1,271,100	1,254,366	235,068	233,365	25,655	23,768	0	0	1,531,823	1,511,499
Minnesota	2,390,393	2,385,907	289,077	293,329	NM	9,006	1	1	2,687,722	2,688,243
Missouri	2,792,355	2,754,966	380,260	377,417	8,379	10,144	2	2	3,180,996	3,142,529
Nebraska	854,440	837,666	161,926	151,203	55,600	61,799	0	0	1,071,966	1,050,668
North Dakota	378,232	379,033	73,396	74,170	7,995	8,693	0	0	459,623	461,896
South Dakota	399,626	393,791	73,397	71,372	NM	3,887	0	0	476,099	469,050
South Atlantic	27,665,483	27,290,434	3,783,167	3,720,630	79,833	82,376	13	13	31,528,496	31,093,453
Delaware	424,604	420,526	54,080	53,610	1,190	870	0	0	479,874	475,006
District of Columbia	268,685	260,650	26,165	25,913	1	1	3	3	294,854	286,567
Florida	9,270,270	9,180,661	1,227,870	1,203,210	20,685	21,286	2	2	10,518,827	10,405,159
Georgia	4,339,573	4,253,440	581,470	568,425	19,611	21,961	1	1	4,940,655	4,843,827
Maryland	2,318,350	2,292,159	252,329	250,780	8,853	8,826	5	5	2,579,537	2,551,770
North Carolina	4,511,396	4,437,007	703,781	675,048	9,936	10,026	1	1	5,225,114	5,122,082
South Carolina	2,265,893	2,218,245	364,491	369,087	4,285	4,068	0	0	2,634,669	2,591,400
Virginia	3,409,527	3,369,844	428,784	431,628	3,758	3,692	1	1	3,842,070	3,805,165
West Virginia	857,185	857,902	144,197	142,929	11,514	11,646	0	0	1,012,896	1,012,477
East South Central	8,406,449	8,267,684	1,392,443	1,385,690	24,071	26,465	0	0	9,822,963	9,679,839
Alabama	2,235,336	2,205,958	368,518	367,692	8,180	7,272	0	0	2,612,034	2,580,922
Kentucky	1,989,826	1,960,211	301,089	302,835	7,685	7,224	0	0	2,298,600	2,270,270
Mississippi	1,308,940	1,281,891	238,935	233,407	6,798	10,802	0	0	1,554,673	1,526,100
Tennessee	2,872,347	2,819,624	483,901	481,756	1,408	1,167	0	0	3,357,656	3,302,547
West South Central	15,877,703	15,736,268	2,238,980	2,211,996	192,419	183,467	6	5	18,309,108	18,131,736
Arkansas	1,386,591	1,372,227	191,812	190,738	37,752	40,608	2	2	1,616,157	1,603,575
Louisiana	2,089,880	2,066,689	292,764	290,160	18,667	19,236	1	1	2,401,312	2,376,086
Oklahoma	1,771,130	1,740,538	284,087	278,484	17,936	19,031	0	0	2,073,153	2,038,053
Texas	10,630,102	10,556,814	1,470,317	1,452,614	118,064	104,592	3	2	12,218,486	12,114,022
Mountain	9,644,182	9,547,450	1,378,513	1,390,142	90,787	98,166	10	5	11,113,492	11,035,763
Arizona	2,732,484	2,725,524	315,383	319,489	6,660	8,262	7	2	3,054,534	3,053,277
Colorado	2,291,642	2,265,991	360,808	368,502	14,616	16,675	1	1	2,667,067	2,651,169
Idaho	729,311	717,403	108,962	108,025	28,506	28,055	0	0	866,779	853,483
Montana	506,473	498,703	109,130	106,400	9,514	11,553	0	0	625,117	616,656
Nevada	1,166,514	1,147,641	163,514	162,218	3,504	3,896	1	1	1,333,533	1,313,756
New Mexico	894,937	877,518	138,832	142,458	8,581	9,400	0	0	1,042,350	1,029,376
Utah	1,051,449	1,044,631	123,190	125,314	9,598	9,634	1	1	1,184,238	1,179,580
Wyoming	271,372	270,039	58,694	57,736	9,808	10,691	0	0	339,874	338,466
Pacific Contiguous	18,092,528	18,184,216	2,293,417	2,303,960	199,552	204,448	23	23	20,585,520	20,692,647
California	13,334,385	13,468,827	1,663,183	1,695,094	144,389	149,771	15	15	15,141,972	15,313,707
Oregon	1,740,082	1,711,088	238,979	233,222	26,495	25,697	2	2	2,005,558	1,970,009
Washington	3,018,061	3,004,301	391,255	375,644	28,668	28,980	6	6	3,437,990	3,408,931
Pacific Noncontiguous	721,075	715,918	114,905	114,311	NM	NM	0	0	838,179	832,389
Alaska	288,093	NM	53,610	NM	NM	NM	0	0	343,114	NM
Hawaii	432,982	431,518	61,295	60,841	788	805	0	0	495,065	493,164
U.S. Total	132,409,361	131,374,997	18,344,472	18,207,555	826,683	846,336	90	83	151,580,606	150,428,971

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2016 are final. Values for 2017 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), August 2017 to September 2017

		As of End of August 2017	Activity During September 2017 as Reported to EIA		As of End of September 2017	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*	*83,889.9*	*249.2*	*0.0*	*84,139.1*	*249.2*	*2,881.8*	*9,294.6*	*496.4*	*5,813.9*	*0.0*	*17.0*	*496.4*	*5,796.9*	*84,635.5*	*89,936.0*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	83,919.2	249.2	0.0	84,168.4	249.2	2,881.8	9,323.9	496.4	5,813.9	0.0	17.0	496.4	5,796.9	84,664.8	89,965.3
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*22,346.1*	*199.0*	*0.0*	*22,545.1*	*199.0*	*2,352.2*	*6,480.8*	*565.8*	*4,640.8*	*0.0*	*0.0*	*565.8*	*4,640.8*	*23,110.9*	*27,185.9*
..... *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	24,104.0	199.0	0.0	24,303.0	199.0	2,352.2	6,480.8	565.8	4,640.8	0.0	0.0	565.8	4,640.8	24,868.8	28,943.8
..... Conventional Hydroelectric	Utility Scale Facilities	80,015.2	0.0	0.0	80,015.2	0.0	102.3	146.8	0.0	233.5	0.0	6.2	0.0	227.3	80,015.2	80,242.5
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*9,016.8*	*0.0*	*0.0*	*9,016.8*	*0.0*	*80.7*	*46.7*	*0.0*	*94.4*	*0.0*	*0.0*	*0.0*	*94.4*	*9,016.8*	*9,111.2*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,108.8*	*0.0*	*0.0*	*2,108.8*	*0.0*	*19.3*	*26.1*	*0.0*	*1.6*	*0.0*	*2.3*	*0.0*	*-0.7*	*2,108.8*	*2,108.1*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,246.8*	*0.0*	*0.0*	*2,246.8*	*0.0*	*-1.6*	*-1.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,246.8*	*2,246.8*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*788.5*	*0.0*	*0.0*	*788.5*	*0.0*	*37.6*	*-3.1*	*0.0*	*57.2*	*0.0*	*0.0*	*0.0*	*57.2*	*788.5*	*845.7*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,160.9	0.0	0.0	14,160.9	0.0	136.0	68.1	0.0	153.2	0.0	2.3	0.0	150.9	14,160.9	14,311.8
..... Geothermal	Utility Scale Facilities	2,456.6	0.0	0.0	2,456.6	0.0	-60.0	-60.0	0.0	37.0	0.0	0.0	0.0	37.0	2,456.6	2,493.6
... Renewable Sources Subtotal	***Utility Scale Facilities***	***204,655.9***	***448.2***	***0.0***	***205,104.1***	***448.2***	***5,412.3***	***15,959.6***	***1,062.2***	***10,878.4***	***0.0***	***25.5***	***1,062.2***	***10,852.9***	***206,166.3***	***215,957.0***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*245,086.9*	*0.0*	*0.0*	*245,086.9*	*0.0*	*6,604.8*	*6,259.7*	*1,286.4*	*15,602.1*	*0.0*	*0.0*	*1,286.4*	*15,602.1*	*246,373.3*	*260,689.0*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,803.3*	*57.0*	*0.0*	*126,860.3*	*57.0*	*302.6*	*1,041.6*	*143.0*	*3,397.3*	*0.0*	*166.3*	*143.0*	*3,231.0*	*127,003.3*	*130,091.3*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*75,357.5*	*0.0*	*0.0*	*75,357.5*	*0.0*	*-2,205.5*	*-5,943.5*	*0.0*	*0.0*	*0.0*	*2,170.9*	*0.0*	*-2,170.9*	*75,357.5*	*73,186.6*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,305.0*	*0.0*	*0.0*	*4,305.0*	*0.0*	*316.0*	*531.7*	*0.0*	*157.2*	*0.9*	*0.9*	*-0.9*	*156.3*	*4,304.1*	*4,461.3*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*121.8*	*0.0*	*0.0*	*121.8*	*0.0*	*0.4*	*9.6*	*0.0*	*30.6*	*0.0*	*0.0*	*0.0*	*30.6*	*121.8*	*152.4*
..... Natural Gas Subtotal	Utility Scale Facilities	451,784.5	57.0	0.0	451,841.5	57.0	5,018.3	1,899.1	1,429.4	19,187.2	0.9	2,338.1	1,428.5	16,849.1	453,270.0	468,690.6
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*262,137.4*	*0.0*	*184.0*	*261,953.4*	*-184.0*	*-3,851.5*	*-4,750.5*	*0.0*	*0.0*	*0.0*	*7,480.0*	*0.0*	*-7,480.0*	*261,953.4*	*254,473.4*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	262,952.4	0.0	184.0	262,768.4	-184.0	-3,851.5	-4,750.5	0.0	0.0	0.0	7,480.0	0.0	-7,480.0	262,768.4	255,288.4
..... Petroleum Coke	Utility Scale Facilities	1,466.7	0.0	0.0	1,466.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,466.7	1,466.7
..... Petroleum Liquids	Utility Scale Facilities	32,281.3	0.0	1.2	32,280.1	-1.2	-635.6	-1,256.4	7.0	24.2	0.7	177.7	6.3	-153.5	32,286.4	32,126.6
..... Other Gases	Utility Scale Facilities	2,456.9	0.0	0.0	2,456.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,456.9	2,456.9
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***750,941.8***	***57.0***	***185.2***	***750,813.6***	***-128.2***	***531.2***	***-4,107.8***	***1,436.4***	***19,211.4***	***1.6***	***9,995.8***	***1,434.8***	***9,215.6***	***752,248.4***	***760,029.2***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,808.7	0.0	0.0	22,808.7	0.0	30.0	30.0	0.0	57.0	0.0	0.0	0.0	57.0	22,808.7	22,865.7
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	690.8	0.0	0.0	690.8	0.0	131.7	248.7	4.5	77.2	0.0	0.0	4.5	77.2	695.3	768.0
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,541.5***	***0.0***	***0.0***	***23,541.5***	***0.0***	***161.7***	***278.7***	***4.5***	***134.2***	***0.0***	***0.0***	***4.5***	***134.2***	***23,546.0***	***23,675.7***
... Nuclear	***Utility Scale Facilities***	***99,581.8***	***0.0***	***0.0***	***99,581.8***	***0.0***	***17.0***	***-461.1***	***0.0***	***22.0***	***0.0***	***0.0***	***0.0***	***22.0***	***99,581.8***	***99,603.8***
... All Other	***Utility Scale Facilities***	***1,414.0***	***0.0***	***0.0***	***1,414.0***	***0.0***	***0.0***	***-24.0***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,414.0***	***1,468.8***
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,135.0**	**505.2**	**185.2**	**1,080,455.0**	**320.0**	**6,122.2**	**11,645.4**	**2,503.1**	**30,300.8**	**1.6**	**10,021.3**	**2,501.5**	**20,279.5**	**1,082,956.5**	**1,100,734.5**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*15,108.1*			*15,332.7*	*224.6*	*2,567.6*	*3,419.4*								
..... Estimated Total Solar Photovoltaic	All Facilities	37,454.2			37,877.8	423.6	4,919.8	9,900.2								
... Estimated Total Solar	***All Facilities***	***39,212.1***			***39,635.7***	***423.6***	***4,919.8***	***9,900.2***								

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

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

Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - September 2017

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
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
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	20,437.7	12,906.9	33,344.6
February	20,624.2	13,448.6	34,072.8
March	20,955.7	13,728.4	34,684.1
April	21,460.0	13,981.9	35,441.9
May	21,849.6	14,270.3	36,119.9
June	22,069.1	14,549.5	36,618.6
July	22,172.0	14,815.8	36,987.8
August	22,346.1	15,108.1	37,454.2
Sept	22,545.1	15,332.7	37,877.8

Values for 2016 are final. Values for 2017 are preliminary.
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - September 2017

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
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
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	7,640.7	4,044.9	1,221.3	12,906.9
February	7,965.1	4,206.2	1,277.2	13,448.6
March	8,130.4	4,292.5	1,305.4	13,728.4
April	8,282.5	4,381.5	1,317.9	13,981.9
May	8,463.7	4,465.0	1,341.6	14,270.3
June	8,619.3	4,561.5	1,368.7	14,549.5
July	8,777.4	4,644.0	1,394.5	14,815.8
August	8,956.6	4,738.2	1,413.3	15,108.1
Sept	9,096.7	4,799.5	1,436.5	15,332.7

Values for 2016 are final. Values for 2017 are preliminary.
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.

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, September 2017 and 2016 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	5,581.2	5,141.2	21,299.8	22,681.5	1,797.4	1,797.4	22.3	2.0	4,015.9	4,015.9	48.0	48.0	32,764.6	33,686.0
Connecticut	358.0	342.0	6,339.7	6,305.8	29.4	29.4	1.6	0.0	2,087.8	2,087.8	26.0	26.0	8,842.5	8,791.0
Maine	2,419.7	2,181.9	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,900.4	4,646.4
Massachusetts	1,180.2	1,052.7	8,351.2	9,781.7	1,768.0	1,768.0	2.5	0.0	677.2	677.2	0.0	0.0	11,979.1	13,279.6
New Hampshire	928.9	928.9	2,262.9	2,266.0	0.0	0.0	0.0	0.0	1,250.9	1,250.9	0.0	0.0	4,442.7	4,445.8
Rhode Island	104.8	69.3	1,805.6	1,787.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,910.4	1,856.9
Vermont	589.6	566.4	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	689.5	666.3
Middle Atlantic	10,958.4	10,792.3	68,235.8	69,333.5	3,409.1	3,409.1	71.4	70.4	19,304.3	19,304.3	11.2	11.2	101,990.2	102,920.8
New Jersey	890.6	807.0	12,323.9	13,515.1	420.0	420.0	1.0	0.0	4,107.9	4,107.9	11.2	11.2	17,754.6	18,861.2
New York	7,185.3	7,123.3	26,133.1	26,102.6	1,406.1	1,406.1	20.0	20.0	5,399.4	5,399.4	0.0	0.0	40,143.9	40,051.4
Pennsylvania	2,882.5	2,862.0	29,778.8	29,715.8	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	0.0	0.0	44,091.7	44,008.2
East North Central	11,026.6	10,179.6	114,035.5	113,447.0	2,133.0	2,103.0	187.4	177.4	19,019.3	19,019.3	110.1	110.1	146,511.9	145,036.4
Illinois	4,172.4	3,974.6	28,974.0	28,928.6	0.0	0.0	112.4	112.4	11,587.3	11,587.3	0.0	0.0	44,846.1	44,602.9
Indiana	2,308.8	2,179.4	23,121.0	23,353.4	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,540.8	25,643.8
Michigan	2,469.8	2,186.8	20,781.1	20,832.1	2,133.0	2,103.0	0.0	0.0	4,105.4	4,105.4	0.0	0.0	29,489.3	29,227.3
Ohio	851.7	724.7	26,659.6	25,810.5	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	29,698.3	28,712.2
Wisconsin	1,223.9	1,114.1	14,499.8	14,522.4	0.0	0.0	0.0	0.0	1,192.6	1,192.6	21.1	21.1	16,937.4	16,850.2
West North Central	25,593.8	21,952.2	60,920.6	60,532.5	657.0	657.0	2.0	2.0	5,394.9	5,873.0	24.5	24.5	92,592.8	89,041.2
Iowa	6,971.6	6,503.6	9,956.3	9,507.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,529.3	16,612.5
Kansas	5,132.4	3,863.9	9,771.1	9,698.0	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	16,079.3	14,737.7
Minnesota	4,587.5	3,984.3	10,087.6	10,035.8	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	16,351.5	15,696.5
Missouri	1,250.2	1,043.6	18,578.4	18,767.4	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,676.6	21,659.0
Nebraska	1,622.5	1,123.5	6,215.5	6,215.5	0.0	0.0	0.0	0.0	771.5	1,249.6	0.0	0.0	8,609.5	8,588.6
North Dakota	3,592.8	2,744.5	4,624.6	4,621.2	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,371.0
South Dakota	2,436.8	2,688.8	1,687.1	1,687.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,375.9
South Atlantic	17,379.7	15,341.8	159,848.0	159,106.7	7,905.2	7,905.2	80.5	77.5	24,598.6	24,598.6	446.7	446.7	210,258.7	207,476.5
Delaware	46.4	44.9	3,329.5	3,364.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	3,408.9
District of Columbia	12.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
Florida	1,736.2	1,434.8	53,297.9	53,795.9	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	58,954.8	59,151.4
Georgia	3,965.6	3,644.5	26,968.8	26,973.2	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,902.6	36,585.9
Maryland	1,062.4	1,058.7	10,287.3	9,553.5	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,070.5	12,331.0
North Carolina	5,691.5	4,563.2	21,646.9	21,824.9	86.0	86.0	1.0	0.0	5,113.6	5,113.6	54.0	54.0	32,593.0	31,641.7
South Carolina	1,954.5	1,894.9	11,422.3	11,472.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	22,669.0	22,659.4
Virginia	1,875.3	1,756.0	18,723.0	17,950.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,407.3	26,515.6
West Virginia	1,035.8	932.8	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,264.6	15,161.6
East South Central	8,561.7	8,100.1	65,687.2	65,821.4	1,616.3	1,616.3	0.0	0.0	10,984.1	10,984.1	1.4	1.4	86,850.7	86,523.3
Alabama	4,091.7	3,789.2	20,227.7	20,227.7	0.0	0.0	0.0	0.0	5,060.4	5,060.4	0.0	0.0	29,379.8	29,077.3
Kentucky	1,222.5	1,147.1	18,874.3	19,004.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,096.8	20,151.4
Mississippi	333.3	274.7	14,278.0	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	16,013.7	15,955.1
Tennessee	2,914.2	2,889.1	12,307.2	12,311.4	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,360.4	21,339.5
West South Central	33,282.5	28,628.8	144,022.4	143,940.8	286.0	286.0	71.0	41.0	8,910.7	8,910.7	512.9	536.9	187,085.5	182,344.2
Arkansas	1,620.1	1,620.1	11,245.2	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,711.1	14,711.1
Louisiana	615.7	615.7	21,019.6	22,353.0	0.0	0.0	0.0	0.0	2,132.9	2,132.9	288.9	288.9	24,057.1	25,390.5
Oklahoma	7,683.5	6,390.9	18,233.7	18,175.5	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,175.2	24,824.4
Texas	23,363.2	20,002.1	93,523.9	92,167.1	0.0	0.0	71.0	41.0	4,960.0	4,960.0	224.0	248.0	122,142.1	117,418.2
Mountain	25,522.0	23,677.6	63,213.1	63,969.3	778.8	778.8	43.6	2.6	3,937.0	3,937.0	126.3	126.3	93,620.8	92,491.6
Arizona	4,995.3	4,582.8	19,407.3	19,407.3	216.3	216.3	40.0	0.0	3,937.0	3,937.0	0.0	0.0	28,595.9	28,143.4
Colorado	4,169.2	4,007.1	11,161.2	11,355.0	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,903.2	15,933.9
Idaho	4,013.3	3,813.3	1,148.1	1,158.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,176.2	4,986.6
Montana	3,446.3	3,404.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,230.7	6,188.7
Nevada	3,455.0	3,147.6	7,791.6	8,248.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,253.1	11,402.7
New Mexico	2,061.0	1,579.3	6,828.3	6,828.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,891.9	8,410.2
Utah	1,587.5	1,428.8	7,348.2	7,443.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,975.9	8,912.2
Wyoming	1,794.4	1,714.4	6,788.0	6,788.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,593.9	8,513.9
Pacific Contiguous	66,070.1	64,220.8	49,335.7	51,928.7	4,225.9	4,225.9	170.1	37.7	3,417.0	3,400.0	106.3	106.3	123,325.1	123,919.4
California	29,210.2	27,543.2	40,261.8	42,866.9	3,911.9	3,911.9	157.5	27.5	2,240.0	2,240.0	106.3	106.3	75,887.7	76,695.8
Oregon	12,061.2	11,939.9	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,384.3	16,263.0
Washington	24,798.7	24,737.7	4,755.8	4,743.7	314.0	314.0	7.6	5.2	1,177.0	1,160.0	0.0	0.0	31,053.1	30,960.6
Pacific Noncontiguous	1,128.1	1,110.1	4,215.5	4,160.0	0.0	0.0	84.5	73.5	0.0	0.0	26.6	26.6	5,454.7	5,370.2
Alaska	538.0	531.5	2,158.3	2,102.8	0.0	0.0	45.0	45.0	0.0	0.0	0.0	0.0	2,741.3	2,679.3
Hawaii	590.1	578.6	2,057.2	2,057.2	0.0	0.0	39.5	28.5	0.0	0.0	26.6	26.6	2,713.4	2,690.9
U.S. Total	205,104.1	189,144.5	750,813.6	754,921.4	22,808.7	22,778.7	732.8	484.1	99,581.8	100,042.9	1,414.0	1,438.0	1,080,455.0	1,068,809.6

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 are preliminary.

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

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, September 2017 and 2016 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	1,347.9	1,071.1	650.8	475.3	0.0	0.0	1,957.4	1,957.4	1,625.1	1,637.4	0.0	0.0	5,581.2	5,141.2	1,675.7	1,298.4	2,326.5	1,773.7	2,326.5	1,773.7
Connecticut	1.1	1.1	31.2	15.2	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	358.0	342.0	307.4	244.7	338.6	259.9	338.6	259.9
Maine	898.8	652.7	5.6	0.0	0.0	0.0	732.4	732.4	782.9	796.8	0.0	0.0	2,419.7	2,181.9	29.9	21.1	35.5	21.1	35.5	21.1
Massachusetts	92.9	94.5	538.1	409.0	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,180.2	1,052.7	1,146.4	912.5	1,684.5	1,321.5	1,684.5	1,321.5
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	66.0	42.8	66.0	42.8	66.0	42.8
Rhode Island	51.8	19.5	10.2	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	104.8	69.3	39.9	20.2	50.1	30.4	50.1	30.4
Vermont	120.2	120.2	65.7	40.9	0.0	0.0	329.4	329.4	74.3	75.9	0.0	0.0	589.6	566.4	86.0	57.2	151.7	98.1	151.7	98.1
Middle Atlantic	3,204.1	3,088.1	815.9	706.9	0.0	0.0	5,630.7	5,630.7	1,307.7	1,366.6	0.0	0.0	10,958.4	10,792.3	2,412.9	1,875.9	3,228.8	2,582.8	3,228.8	2,582.8
New Jersey	7.6	7.6	643.4	559.8	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	890.6	807.0	1,221.6	1,001.4	1,865.0	1,561.2	1,865.0	1,561.2
New York	1,824.7	1,747.0	121.7	96.3	0.0	0.0	4,718.8	4,718.8	520.1	561.2	0.0	0.0	7,185.3	7,123.3	926.0	675.6	1,047.7	771.9	1,047.7	771.9
Pennsylvania	1,371.8	1,333.5	50.8	50.8	0.0	0.0	899.6	899.6	560.3	578.1	0.0	0.0	2,882.5	2,862.0	265.3	199.0	316.1	249.8	316.1	249.8
East North Central	8,520.7	7,809.5	353.6	242.5	0.0	0.0	853.1	853.1	1,299.2	1,274.5	0.0	0.0	11,026.6	10,179.6	265.4	175.7	619.0	418.2	619.0	418.2
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	121.7	107.9	0.0	0.0	4,172.4	3,974.6	45.0	25.3	77.8	58.1	77.8	58.1
Indiana	1,989.7	1,889.7	175.9	152.9	0.0	0.0	60.4	60.4	82.8	76.4	0.0	0.0	2,308.8	2,179.4	25.1	11.5	201.0	164.4	201.0	164.4
Michigan	1,583.8	1,355.4	62.5	7.9	0.0	0.0	263.0	263.0	560.5	560.5	0.0	0.0	2,469.8	2,186.8	60.9	39.1	123.4	47.0	123.4	47.0
Ohio	533.9	433.1	67.5	45.8	0.0	0.0	101.9	101.9	148.4	143.9	0.0	0.0	851.7	724.7	95.0	75.2	162.5	121.0	162.5	121.0
Wisconsin	429.5	331.5	14.9	3.1	0.0	0.0	393.7	393.7	385.8	385.8	0.0	0.0	1,223.9	1,114.1	39.5	24.7	54.4	27.8	54.4	27.8
West North Central	21,302.8	18,073.0	448.5	36.7	0.0	0.0	3,289.4	3,289.4	553.1	553.1	0.0	0.0	25,593.8	21,952.2	247.0	180.2	695.5	216.9	695.5	216.9
Iowa	6,798.9	6,337.3	6.4	0.0	0.0	0.0	144.9	144.9	21.4	21.4	0.0	0.0	6,971.6	6,503.6	62.5	40.1	68.9	40.1	68.9	40.1
Kansas	5,113.2	3,846.7	3.2	1.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,132.4	3,863.9	10.9	5.4	14.1	6.6	14.1	6.6
Minnesota	3,506.5	3,290.1	394.4	7.6	0.0	0.0	205.9	205.9	480.7	480.7	0.0	0.0	4,587.5	3,984.3	42.0	26.5	436.4	34.1	436.4	34.1
Missouri	654.3	458.5	33.7	22.9	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,250.2	1,043.6	127.3	105.7	161.0	128.6	161.0	128.6
Nebraska	1,319.1	927.9	9.8	4.0	0.0	0.0	277.9	175.9	15.7	15.7	0.0	0.0	1,622.5	1,123.5	3.5	1.8	13.3	5.8	13.3	5.8
North Dakota	3,073.0	2,224.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	2,744.5	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	987.8	1.0	1.0	0.0	0.0	1,598.0	1,700.0	0.0	0.0	0.0	0.0	2,436.8	2,688.8	0.5	0.5	1.5	1.5	1.5	1.5
South Atlantic	1,086.3	775.3	4,631.0	2,748.4	0.0	0.0	7,270.8	7,498.7	4,391.6	4,319.4	0.0	0.0	17,379.7	15,341.8	1,303.6	906.7	5,934.6	3,655.1	5,934.6	3,655.1
Delaware	2.0	2.0	32.2	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.4	44.9	66.1	48.0	98.3	78.7	98.3	78.7
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	12.0	12.0	34.3	23.8	34.3	23.8	34.3	23.8
Florida	0.0	0.0	391.5	98.5	0.0	0.0	54.5	54.5	1,290.2	1,281.8	0.0	0.0	1,736.2	1,434.8	179.5	123.1	571.0	221.6	571.0	221.6
Georgia	0.0	0.0	970.5	476.5	0.0	0.0	2,047.2	2,275.1	947.9	892.9	0.0	0.0	3,965.6	3,644.5	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	140.4	136.7	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,062.4	1,058.7	598.4	430.5	738.8	567.2	738.8	567.2
North Carolina	208.0	0.0	2,917.4	2,002.3	0.0	0.0	2,002.0	2,002.0	564.1	558.9	0.0	0.0	5,691.5	4,563.2	123.7	103.5	3,041.1	2,105.8	3,041.1	2,105.8
South Carolina	0.0	0.0	62.1	2.5	0.0	0.0	1,361.6	1,361.6	530.8	530.8	0.0	0.0	1,954.5	1,894.9	106.3	32.3	168.4	34.8	168.4	34.8
Virginia	0.0	0.0	116.9	1.2	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,875.3	1,756.0	42.8	27.4	159.7	28.6	159.7	28.6
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	349.5	349.5	0.0	0.0	0.0	0.0	1,035.8	932.8	5.5	3.8	5.5	3.8	5.5	3.8
East South Central	29.1	29.1	231.9	130.2	0.0	0.0	7,029.1	6,727.3	1,271.6	1,213.5	0.0	0.0	8,561.7	8,100.1	82.7	74.6	314.6	204.8	314.6	204.8
Alabama	0.0	0.0	93.0	75.0	0.0	0.0	3,270.2	3,042.3	728.5	671.9	0.0	0.0	4,091.7	3,789.2	NM	4.6	NM	79.6	NM	79.6
Kentucky	0.0	0.0	10.0	10.0	0.0	0.0	1,140.3	1,066.4	72.2	70.7	0.0	0.0	1,222.5	1,147.1	17.3	13.1	27.3	23.1	27.3	23.1
Mississippi	0.0	0.0	58.6	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	333.3	274.7	6.3	3.9	64.9	3.9	64.9	3.9
Tennessee	29.1	29.1	70.3	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,914.2	2,889.1	54.1	53.1	124.4	98.3	124.4	98.3
West South Central	28,033.1	23,935.9	990.3	434.4	0.0	0.0	2,990.3	2,988.3	1,268.8	1,270.2	0.0	0.0	33,282.5	28,628.8	568.6	369.0	1,558.9	803.4	1,558.9	803.4
Arkansas	0.0	0.0	13.0	13.0	0.0	0.0	1,266.7	1,266.7	340.4	340.4	0.0	0.0	1,620.1	1,620.1	6.9	4.4	19.9	17.4	19.9	17.4
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	423.7	423.7	0.0	0.0	615.7	615.7	124.5	116.1	124.5	116.1	124.5	116.1
Oklahoma	6,743.2	5,451.2	2.5	2.5	0.0	0.0	861.6	859.6	76.2	77.6	0.0	0.0	7,683.5	6,390.9	3.7	2.4	6.2	4.9	6.2	4.9
Texas	21,289.9	18,484.7	974.8	418.9	0.0	0.0	670.0	670.0	428.5	428.5	0.0	0.0	23,363.2	20,002.1	433.5	246.1	1,408.3	665.0	1,408.3	665.0
Mountain	8,434.4	7,914.4	5,332.1	4,008.5	473.9	473.9	10,562.8	10,560.4	174.5	176.1	544.3	544.3	25,522.0	23,677.6	1,768.5	1,526.9	7,100.6	5,535.4	7,574.5	6,009.3
Arizona	267.3	267.3	1,681.0	1,268.5	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,995.3	4,582.8	963.3	851.2	2,644.3	2,119.7	2,939.7	2,415.1
Colorado	3,026.1	2,965.3	427.0	328.1	0.0	0.0	687.4	685.0	28.7	28.7	0.0	0.0	4,169.2	4,007.1	320.0	273.3	747.0	601.4	747.0	601.4
Idaho	970.5	970.5	240.0	40.0	0.0	0.0	2,708.9	2,708.9	83.9	83.9	10.0	10.0	4,013.3	3,813.3	11.1	6.5	251.1	46.5	251.1	46.5
Montana	678.5	653.5	17.0	0.0	0.0	0.0	2,747.8	2,747.8	3.0	3.0	0.0	0.0	3,446.3	3,404.3	10.3	7.5	27.3	7.5	27.3	7.5
Nevada	150.0	150.0	1,605.6	1,298.2	178.5	178.5	1,051.4	1,051.4	9.8	9.8	459.7	459.7	3,455.0	3,147.6	177.0	206.7	1,782.6	1,504.9	1,961.1	1,683.4
New Mexico	1,466.5	1,112.3	504.4	376.9	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,061.0	1,579.3	110.1	82.8	614.5	459.7	614.5	459.7
Utah	388.2	388.2	857.1	696.8	0.0	0.0	256.4	256.4	12.8	14.4	73.0	73.0	1,587.5	1,428.8	173.8	96.9	1,030.9	793.7	1,030.9	793.7
Wyoming	1,487.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,714.4	3.0	2.1	3.0	2.1	3.0	2.1
Pacific Contiguous	11,943.8	11,881.9	8,992.7	7,230.7	1,284.0	1,284.0	39,935.3	39,873.3	2,045.0	2,021.6	1,869.3	1,929.3	66,070.1	64,220.8	6,443.9	5,055.3	15,436.6	12,286.0	16,720.6	13,570.0
California	5,660.5	5,658.6	8,892.3	7,191.6	1,284.0	1,284.0	10,197.7	10,190.4	1,325.9	1,308.8	1,849.8	1,909.8	29,210.2	27,543.2	6,220.2	4,870.8	15,112.5	12,062.4	16,396.5	13,346.4
Oregon	3,210.2	3,150.2	99.9	38.6	0.0	0.0	8,423.2	8,423.2	308.4	308.4	19.5	19.5	12,061.2	11,939.9	131.0	112.0	230.9	150.6	230.9	150.6
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.4	21,259.7	410.7	404.4	0.0	0.0	24,798.7	24,737.7	92.7	72.4	93.2	72.9	93.2	72.9
Pacific Noncontiguous	266.2	266.2	98.3	50.7	0.0	0.0	496.3	489.8	224.3	260.4	43.0	43.0	1,128.1	1,110.1	564.4	450.5	662.7	501.2	662.7	501.2
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.4	463.9	7.0	7.0	0.0	0.0	538.0	531.5	1.9	1.2	1.9	1.2	1.9	1.2
Hawaii	205.6	205.6	98.3	50.7	0.0	0.0	25.9	25.9	217.3	253.4	43.0	43.0	590.1	578.6	562.5	449.2	660.8	499.9	660.8	499.9
U.S. Total	84,168.4	74,844.5	22,545.1	16,064.3	1,757.9	1,757.9	80,015.2	79,868.4	14,160.9	14,092.8	2,456.6	2,516.6	205,104.1	189,144.5	15,332.7	11,913.3	37,877.8	27,977.6	39,635.7	29,735.5

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 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, September 2017 and 2016 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016	September 2017	September 2016
New England	12,076.6	11,988.8	1,099.0	1,086.2	1,051.7	1,041.9	917.3	1,955.3	0.0	0.0	6,155.2	6,609.3	0.0	0.0	21,299.8	22,681.5
Connecticut	2,581.4	2,555.3	467.3	467.3	424.6	416.8	383.4	383.4	0.0	0.0	2,483.0	2,483.0	0.0	0.0	6,339.7	6,305.8
Maine	1,250.0	1,250.0	297.1	297.1	14.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,442.5	2,442.5
Massachusetts	5,237.0	5,193.3	330.8	318.0	200.0	198.0	0.0	1,038.0	0.0	0.0	2,583.4	3,034.4	0.0	0.0	8,351.2	9,781.7
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	1,777.2	1,759.2	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	16.0	16.0	0.0	0.0	1,805.6	1,787.6
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	26,311.1	26,263.5	7,711.7	7,716.4	13,657.8	14,070.3	14,982.2	15,721.7	78.6	78.6	5,369.2	5,357.8	125.2	125.2	68,235.8	69,333.5
New Jersey	8,103.2	8,103.2	2,857.3	2,857.3	493.2	1,052.4	613.0	1,245.0	11.6	11.6	222.2	222.2	23.4	23.4	12,323.9	13,515.1
New York	8,128.7	8,102.1	3,174.9	3,179.6	9,653.5	9,548.8	1,639.9	1,747.4	0.0	0.0	3,536.1	3,524.7	0.0	0.0	26,133.1	26,102.6
Pennsylvania	10,079.2	10,058.2	1,679.5	1,679.5	3,511.1	3,469.1	12,729.3	12,729.3	67.0	67.0	1,610.9	1,610.9	101.8	101.8	29,778.8	29,715.8
East North Central	18,058.2	17,080.1	26,442.9	26,295.1	3,953.9	4,129.1	61,501.4	61,832.4	247.6	247.6	2,665.6	2,696.8	1,165.9	1,165.9	114,035.5	113,447.0
Illinois	3,566.3	3,562.9	10,302.2	10,260.2	290.9	290.9	14,015.1	14,015.1	0.0	0.0	685.0	685.0	114.5	114.5	28,974.0	28,928.6
Indiana	2,406.0	2,406.0	3,363.2	3,266.6	725.9	725.9	15,773.8	16,094.8	0.0	0.0	237.8	245.8	614.3	614.3	23,121.0	23,353.4
Michigan	4,421.6	4,294.5	3,964.9	3,955.7	2,184.8	2,361.5	9,414.2	9,414.2	47.2	47.2	498.4	509.0	250.0	250.0	20,781.1	20,832.1
Ohio	4,922.4	4,074.8	5,431.7	5,431.7	154.8	153.3	15,181.6	15,181.6	142.0	142.0	640.0	640.0	187.1	187.1	26,659.6	25,810.5
Wisconsin	2,741.9	2,741.9	3,380.9	3,380.9	597.5	597.5	7,116.7	7,126.7	58.4	58.4	604.4	617.0	0.0	0.0	14,499.8	14,522.4
West North Central	6,641.9	5,988.3	11,537.0	11,341.1	4,200.2	4,155.0	34,593.2	34,955.4	32.0	32.0	3,907.9	4,052.3	8.4	8.4	60,920.6	60,532.5
Iowa	1,774.7	1,121.1	1,256.2	1,140.3	498.1	670.4	5,548.8	5,548.8	32.0	32.0	846.5	994.9	0.0	0.0	9,956.3	9,507.5
Kansas	266.0	266.0	2,169.0	2,169.0	2,113.6	2,057.5	4,683.2	4,672.2	0.0	0.0	539.3	533.3	0.0	0.0	9,771.1	9,698.0
Minnesota	2,172.0	2,172.0	2,437.9	2,437.9	375.1	322.3	4,308.5	4,308.5	0.0	0.0	794.1	795.1	0.0	0.0	10,087.6	10,035.8
Missouri	1,796.6	1,796.6	3,420.5	3,420.5	501.0	504.0	11,726.1	11,912.1	0.0	0.0	1,134.2	1,134.2	0.0	0.0	18,578.4	18,767.4
Nebraska	342.6	342.6	1,150.8	1,150.8	592.1	592.1	3,817.3	3,817.3	0.0	0.0	312.7	312.7	0.0	0.0	6,215.5	6,215.5
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,222.5	0.0	0.0	61.3	62.3	8.4	8.4	4,624.6	4,621.2
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	219.8	219.8	0.0	0.0	1,687.1	1,687.1
South Atlantic	52,648.3	50,670.3	32,450.9	31,963.7	7,245.3	7,802.8	56,870.7	57,329.7	83.8	83.8	10,414.0	11,121.4	135.0	135.0	159,848.0	159,106.7
Delaware	1,512.0	1,512.0	315.2	315.2	843.2	877.7	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	3,364.0
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	27,444.7	26,966.7	8,521.5	8,130.5	2,476.7	2,999.7	9,881.0	10,131.0	0.0	0.0	4,974.0	5,568.0	0.0	0.0	53,297.9	53,795.9
Georgia	7,957.7	7,957.7	7,823.8	7,823.8	796.4	796.4	9,360.5	9,360.5	83.8	83.8	946.6	951.0	0.0	0.0	26,968.8	26,973.2
Maryland	976.0	250.0	1,966.2	1,960.0	1,414.2	1,414.2	4,712.0	4,712.0	0.0	0.0	1,218.9	1,217.3	0.0	0.0	10,287.3	9,553.5
North Carolina	4,724.8	4,724.8	6,047.7	5,957.7	0.0	0.0	10,536.8	10,745.8	0.0	0.0	337.6	396.6	0.0	0.0	21,646.9	21,824.9
South Carolina	2,399.0	2,399.0	2,801.9	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	513.4	0.0	0.0	11,422.3	11,472.3
Virginia	7,634.1	6,860.1	3,894.3	3,894.3	1,045.8	1,045.8	3,800.4	3,800.4	0.0	0.0	2,348.4	2,350.0	0.0	0.0	18,723.0	17,950.6
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	123.0	12,958.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	20,197.9	19,097.9	13,008.2	13,002.4	5,338.8	5,338.8	26,980.5	28,210.5	0.0	0.0	142.0	152.0	19.8	19.8	65,687.2	65,821.4
Alabama	9,441.4	9,441.4	2,532.2	2,532.2	1,908.3	1,908.3	6,283.4	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,227.7	20,227.7
Kentucky	1,763.0	663.0	4,976.6	4,976.6	260.0	260.0	11,862.8	13,092.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	19,004.3
Mississippi	7,590.5	7,590.5	1,718.9	1,718.9	3,104.3	3,104.3	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,278.0	14,278.0
Tennessee	1,403.0	1,403.0	3,780.5	3,774.7	66.2	66.2	7,014.3	7,014.3	0.0	0.0	43.2	53.2	0.0	0.0	12,307.2	12,311.4
West South Central	60,192.2	58,924.5	13,561.5	13,425.8	32,052.7	33,374.5	36,423.7	36,423.7	955.7	955.7	181.3	181.3	655.3	655.3	144,022.4	143,940.8
Arkansas	4,620.5	4,620.5	702.8	702.8	793.7	793.7	5,116.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,245.2	11,245.2
Louisiana	7,552.8	7,552.8	2,372.8	2,372.8	6,896.3	8,229.7	2,852.9	2,852.9	891.9	891.9	45.5	45.5	407.4	407.4	21,019.6	22,353.0
Oklahoma	6,783.7	6,783.7	1,344.9	1,295.2	5,164.9	5,156.4	4,865.8	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,233.7	18,175.5
Texas	41,235.2	39,967.5	9,141.0	9,055.0	19,197.8	19,194.7	23,589.0	23,589.0	63.8	63.8	49.2	49.2	247.9	247.9	93,523.9	92,167.1
Mountain	22,494.2	22,504.6	8,659.0	8,819.0	3,341.9	3,336.9	28,183.6	28,774.4	52.0	52.0	370.8	370.8	111.6	111.6	63,213.1	63,969.3
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	2,532.3	329.0	329.0	4,851.0	5,084.8	0.0	0.0	168.4	168.4	0.0	0.0	11,161.2	11,355.0
Idaho	558.1	568.5	562.1	562.1	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,148.1	1,158.5
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	5,415.0	5,415.0	1,185.6	1,385.6	444.6	444.6	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,791.6	8,248.6
New Mexico	1,465.0	1,465.0	976.0	976.0	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,828.3	6,828.3
Utah	1,830.0	1,830.0	520.2	520.2	316.2	311.2	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,443.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,411.6	6,411.6	0.0	0.0	5.8	5.8	110.1	110.1	6,788.0	6,788.0
Pacific Contiguous	25,987.3	25,891.2	11,763.8	11,514.7	8,877.0	11,872.2	1,982.0	1,982.0	17.0	17.0	479.3	422.3	229.3	229.3	49,335.7	51,928.7
California	19,962.8	19,878.8	10,910.6	10,661.5	8,621.0	11,616.2	57.0	57.0	17.0	17.0	464.1	407.1	229.3	229.3	40,261.8	42,866.9
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	2,649.6	2,637.5	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	4,755.8	4,743.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,594.8	2,572.5	6.4	6.4	4,215.5	4,160.0
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	724.0	701.7	0.0	0.0	2,158.3	2,102.8
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,870.8	6.4	6.4	2,057.2	2,057.2
U.S. Total	245,086.9	238,827.2	126,860.3	125,818.7	79,894.3	85,296.5	262,768.4	267,518.9	1,466.7	1,466.7	32,280.1	33,536.5	2,456.9	2,456.9	750,813.6	754,921.4

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 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, 2017

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
2017	1	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	58540	California PV Energy LLC	IPP	CA Department of Public Health at Richmo	CA	60428	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV
2017	1	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV
2017	1	58549	County of Alameda GSA	Electric CHP	Santa Rita Jail	CA	58625	SRFC2	1.4	Other Natural Gas	NG	FC
2017	1	58549	County of Alameda GSA	Electric CHP	Santa Rita Jail	CA	58625	SRPV3	0.5	Solar Photovoltaic	SUN	PV
2017	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Bowling Green	OH	60622	AMPBG	20.0	Solar Photovoltaic	SUN	PV
2017	1	61024	Deep Branch Farm, LLC	IPP	Deep Branch Farm	NC	61403	1	5.0	Solar Photovoltaic	SUN	PV
2017	1	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV
2017	1	60793	EE Waianae Solar Project LLC	IPP	EE Waianae Solar Project	HI	61172	WAIAN	27.6	Solar Photovoltaic	SUN	PV
2017	1	61077	IGS ORIX Solar I, LLC	IPP	IOS - MEW Phase 1	ME	61460	MEW1	4.1	Solar Photovoltaic	SUN	PV
2017	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV
2017	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2017	1	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT
2017	1	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV
2017	1	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	1	13683	North Carolina El Member Corp	Electric Utility	Ocracoke	NC	6377	BAT	1.0	Batteries	MWH	BA
2017	1	60562	Oliver Wind III, LLC	IPP	Oliver Wind III, LLC	ND	60905	WT1	99.3	Onshore Wind Turbine	WND	WT
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	60834	Pima Energy Storage System	IPP	Pima Energy Storage System	AZ	61197	PIMA	10.0	Batteries	MWH	BA
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	COGN1	78.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	60520	SoCore Energy LLC	IPP	Mt. Hope DPC Solar	WI	60893	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60520	SoCore Energy LLC	IPP	Sauk DPC Solar	WI	60887	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA
2017	1	60947	Tesla Inc.	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	1	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS4	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	1-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	2-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	3-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	4-III	1.6	Landfill Gas	LFG	IC
2017	1	58918	West Siler Farm LLC	IPP	West Siler Farm LLC	NC	59112	1	5.0	Solar Photovoltaic	SUN	PV
2017	1	60607	Wildwood Solar II, LLC	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV
2017	2	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT
2017	2	59050	Algonquin Power Co	IPP	Luning Energy	NV	61084	LNING	50.0	Solar Photovoltaic	SUN	PV
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	10	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	11	29.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	9	50.0	Natural Gas Fired Combined Cycle	NG	CT

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	2	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 35, LLC	NC	61258	ISS35	1.9	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 59, LLC	NC	61259	ISS59	1.9	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 60, LLC	NC	61260	ISS60	1.9	Solar Photovoltaic	SUN	PV
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT1	41.6	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT2	74.5	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT3	32.9	Onshore Wind Turbine	WND	WT
2017	2	60501	Farmington Holdco LLC	IPP	Farmington Holdco Solar	MN	60832	FARMI	5.0	Solar Photovoltaic	SUN	PV
2017	2	60507	Fresh Air Energy XXXV, LLC	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV
2017	2	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 2	NC	61275	WILS2	3.8	Solar Photovoltaic	SUN	PV
2017	2	61077	IGS ORIX Solar I, LLC	IPP	IGS Solar I - BWI2	MD	61465	BWI2	1.4	Solar Photovoltaic	SUN	PV
2017	2	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	60618	Lindberg Field Solar 2, LLC	IPP	Lindberg Field Solar 2	CA	60984	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	2	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA01	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA02	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA03	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA04	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA05	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	60490	Pine Island Holdco, LLC	IPP	Pine Island Solar	MN	60835	PINEI	3.9	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV
2017	2	60336	SDGE Batteries	Electric Utility	El Cajon Energy Storage	CA	60569	SES	7.5	Batteries	MWH	BA
2017	2	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	BESS	0.5	Batteries	MWH	BA
2017	2	60520	SoCore Energy LLC	IPP	Bandera Electric Coop PV	TX	61205	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Downsville DPC Solar	WI	60892	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Medford DPC Solar	WI	60894	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	2	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV
2017	2	60947	Tesla Inc.	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	57081	WGL Energy Systems, Inc	IPP	Lind Solar CSG	MN	60966	S0222	4.9	Solar Photovoltaic	SUN	PV
2017	3	60571	AEP Onsite Partners	IPP	Canandaigua Westbrook Solar Array	NY	61042	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Spartan	NJ	60755	PV1	8.3	Solar Photovoltaic	SUN	PV
2017	3	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV
2017	3	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV
2017	3	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00603	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00696	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00697	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00698	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00699	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00700	1.4	Landfill Gas	LFG	IC
2017	3	60407	Cimarron Bend Wind Project II, LLC	IPP	Cimarron Bend Wind Project II, LLC	KS	60688	1	200.0	Onshore Wind Turbine	WND	WT
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT4	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT5	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT6	2.0	Petroleum Liquids	DFO	IC
2017	3	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT
2017	3	61060	Cypress Creek Renewables	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2017	3	60814	Drop 5 Hydro LLC	IPP	Drop 5	CO	61191	GEN1	2.4	Conventional Hydroelectric	WAT	HY
2017	3	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	27.6	Solar Photovoltaic	SUN	PV
2017	3	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT
2017	3	60888	GCL New Energy, Inc.	IPP	Jackson Solar Farm	NC	61292	JAKSN	8.6	Solar Photovoltaic	SUN	PV
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST
2017	3	60343	Hector Farm, LLC	IPP	Hector Farm	NC	60577	1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV
2017	3	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 300A	CA	61249	W5531	2.9	Solar Photovoltaic	SUN	PV
2017	3	58822	MC Power Companies Inc	IPP	Independence Solar Farm	MO	61092	IPL1	3.0	Solar Photovoltaic	SUN	PV
2017	3	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	59469	Mt. Home Solar 1, LLC	IPP	Mt. Home Solar 1, LLC	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV
2017	3	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV
2017	3	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT
2017	3	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA
2017	3	60448	Simcoe Solar	IPP	Simcoe Solar	ID	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV
2017	3	60651	Spring Street Solar 1, LLC	IPP	Spring Street Solar 1 CSG	MA	61009	SPRIN	2.0	Solar Photovoltaic	SUN	PV
2017	3	19728	UNS Electric, Inc	Electric Utility	Jacobson 5 MW Solar	AZ	60603	PV1	4.1	Solar Photovoltaic	SUN	PV
2017	3	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT
2017	3	60487	Wabasha Holdco LLC	IPP	Wabasha Holdco Solar	MN	60838	WABAS	3.0	Solar Photovoltaic	SUN	PV
2017	3	22500	Westar Energy Inc	Electric Utility	Western Plains Wind Farm	KS	60689	1	280.0	Onshore Wind Turbine	WND	WT
2017	3	60614	Westside Solar, LLC	IPP	NextEra Westside PV	CA	60981	WS526	20.0	Solar Photovoltaic	SUN	PV
2017	3	60619	Whitney Point Solar, LLC	IPP	Whitney Point Solar	CA	60975	WS532	20.0	Solar Photovoltaic	SUN	PV
2017	3	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT
2017	4	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar CSG 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV
2017	4	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	COGEN	2.0	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0	Other Waste Biomass	OBG	GT
2017	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA
2017	4	60496	Enerparc Inc.	IPP	Green Meadow Solar, LLC	MT	61291	GMSMT	3.0	Solar Photovoltaic	SUN	PV
2017	4	60496	Enerparc Inc.	IPP	River Bend Solar, LLC	MT	61289	RBSMT	2.0	Solar Photovoltaic	SUN	PV
2017	4	60496	Enerparc Inc.	IPP	South Mills Solar, LLC	MT	61290	SMSMT	3.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 1	NC	61274	WISL1	3.3	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 3	NC	61276	WILS3	9.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 4	NC	61277	WILS4	9.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 7	NC	61280	WILS7	9.2	Solar Photovoltaic	SUN	PV
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	211.7	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	211.8	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	230.1	Natural Gas Fired Combined Cycle	NG	CA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	BA1	10.0	Batteries	MWH	BA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	4	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	4	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV
2017	4	60307	NRG Solar Blythe II LLC	IPP	Solar Blythe 2	CA	60558	PV1	20.0	Solar Photovoltaic	SUN	PV
2017	4	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT
2017	4	60584	Onyx Asset Services Group	IPP	Onyx - Allen Harim	DE	61206	10021	1.5	Solar Photovoltaic	SUN	PV
2017	4	60920	Peterson Road Solar, LLC	IPP	Peterson Road Solar	MA	61307	02076	2.5	Solar Photovoltaic	SUN	PV
2017	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV
2017	4	16609	San Diego Gas & Electric Co	Electric Utility	Ramona Solar Energy	CA	60995	1	3.8	Solar Photovoltaic	SUN	PV
2017	4	60636	SolaireHolman 1, LLC	IPP	SolaireHolman Solar Project	TX	60989	PV1	50.0	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV
2017	4	60848	Spencer Farm, LLC	IPP	Spencer Farm, LLC	NC	61220	1	5.0	Solar Photovoltaic	SUN	PV
2017	4	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	4	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	58375	Sterling Municipal Light Department	Electric Utility	Chocksett Rd Energy Storage Project	MA	60959	BA1	2.0	Batteries	MWH	BA
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV
2017	4	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG1	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG2	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG3	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	STG1	467.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA
2017	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV
2017	5	60571	AEP Onsite Partners	IPP	AEP Jacksonville Solar Project	FL	61388	PV1	7.1	Solar Photovoltaic	SUN	PV
2017	5	61012	AES Distributed Energy	IPP	Amazon - Patterson PV	CA	61377	PATT1	2.5	Solar Photovoltaic	SUN	PV
2017	5	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	5	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 5	NC	61278	WILS5	9.5	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 6	NC	61279	WILS6	9.7	Solar Photovoltaic	SUN	PV
2017	5	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV
2017	5	61077	IGS ORIX Solar I, LLC	IPP	City of Lexington	NE	61467	LXNE1	3.5	Solar Photovoltaic	SUN	PV
2017	5	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV
2017	5	60879	NGI-Kayenta Solar Lessor I, LLC	IPP	Kayenta Solar Project	AZ	61268	PV1	27.3	Solar Photovoltaic	SUN	PV
2017	5	61061	Panasonic Battery Project	Electric Utility	Panasonic Carport Solar	CO	61439	PANPV	1.3	Solar Photovoltaic	SUN	PV
2017	5	60962	Saluda Solar II, LLC	IPP	Saluda Solar II	SC	61323	PGRB5	3.4	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	T0588 Phoenix - AZ	AZ	61199	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA1	0.5	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV
2017	5	57081	WGL Energy Systems, Inc	IPP	Gulfport Naval Base CSG PV System	MS	61208	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC
2017	6	60571	AEP Onsite Partners	IPP	Letchworth Solar Project	NY	61389	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	6	61012	AES Distributed Energy	IPP	Cedar Creek PV	NY	61376	CEDR1	1.8	Solar Photovoltaic	SUN	PV
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV
2017	6	60966	Barnwell Solar, LLC	IPP	Barnwell Solar	SC	61327	PGRB1	5.4	Solar Photovoltaic	SUN	PV
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM01	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM02	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM03	1.5	Landfill Gas	LFG	IC
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	6	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	7.3	Conventional Hydroelectric	WAT	HY

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	6	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV
2017	6	60738	Gulf Coast Solar Center I (CA)	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC
2017	6	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	6	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV
2017	6	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV
2017	6	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 CSG LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV
2017	6	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2017	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	6	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV
2017	6	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60723	VRF Battery Plant	Electric Utility	Vanadium Redox Flow Battery Plant	CA	61107	VRF	2.0	Batteries	MWH	BA
2017	6	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV
2017	7	60634	AEM Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT
2017	7	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC
2017	7	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	50.0	Wood/Wood Waste Biomass	WDS	ST
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY
2017	7	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC
2017	7	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV
2017	7	60965	Cameron Solar II, LLC	IPP	Cameron Solar II	SC	61326	PGRB2	4.1	Solar Photovoltaic	SUN	PV
2017	7	57319	Constellation Solar Massachusetts LLC	IPP	Smith & Wesson at Springfield MA PV	MA	61367	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	7	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT
2017	7	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV
2017	7	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4	Natural Gas Internal Combustion Engine	NG	IC
2017	7	61021	Hecate Energy Clarke County, LLC	Electric Utility	Clarke Solar Power Facility	VA	61374	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	7	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV
2017	7	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400A	CA	61348	W5691	2.3	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400B	CA	61349	W5694	2.2	Solar Photovoltaic	SUN	PV
2017	7	58822	MC Power Companies Inc	IPP	Chillicothe Solar Farm	MO	61223	CHSF1	2.5	Solar Photovoltaic	SUN	PV
2017	7	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT
2017	7	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	EDG13	1.5	Natural Gas Internal Combustion Engine	NG	IC
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA
2017	7	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA
2017	7	58245	Patua Acquisition Company, LLC	IPP	Patua Geothermal Project Phase 1A	NV	58319	PV-01	10.6	Solar Photovoltaic	SUN	PV
2017	7	60859	Redbed Plains Wind Farm LLC	IPP	Redbed Plains Wind Farm	OK	61221	WT1	99.1	Onshore Wind Turbine	WND	WT
2017	7	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	60947	Tesla Inc.	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	60947	Tesla Inc.	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60950	USPS LA Solar FiT A & B	Electric Utility	USPS PV	CA	61250	USPS1	10.7	Solar Photovoltaic	SUN	PV
2017	7	19724	Vanderbilt University	Commercial	Vanderbilt University Power Plant	TN	52048	GT1B	5.8	Natural Gas Fired Combustion Turbine	NG	GT

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	7	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV
2017	8	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY
2017	8	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.6	Solar Photovoltaic	SUN	PV
2017	8	60409	Blue Summit Storage, LLC	IPP	Blue Summit Storage, LLC	TX	60690	WBSS	30.0	Batteries	MWH	BA
2017	8	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Bizzell Church Solar 2	NC	61158	BIZZE	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	St. Pauls Solar 2	NC	61156	STPAU	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	ZV Solar 2, LLC	NC	61257	ZV204	4.9	Solar Photovoltaic	SUN	PV
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	61062	Denver Braswell	IPP	Denver Braswell PV	GA	61441	GPDB1	1.4	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG1	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG2	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG3	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG4	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG5	1.0	Solar Photovoltaic	SUN	PV
2017	8	60921	Farley Road Solar, LLC	IPP	Farley Road Solar	MA	61294	02419	1.9	Solar Photovoltaic	SUN	PV
2017	8	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV
2017	8	60964	Hampton Solar I, LLC	IPP	Hampton Solar I	SC	61325	PGRB3	6.8	Solar Photovoltaic	SUN	PV
2017	8	61077	IGS ORIX Solar I, LLC	IPP	IOS - ERW9	NJ	61466	EWR9	5.3	Solar Photovoltaic	SUN	PV
2017	8	61077	IGS ORIX Solar I, LLC	IPP	Valdosta Prison	GA	61468	GPVP1	1.0	Solar Photovoltaic	SUN	PV
2017	8	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC
2017	8	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC
2017	8	60963	Odyssey Solar, LLC	IPP	Odyssey Solar	SC	61324	PGRB4	8.2	Solar Photovoltaic	SUN	PV
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY
2017	8	61061	Panasonic Battery Project	Electric Utility	Panasonic Carport Solar	CO	61439	PANBS	1.0	Batteries	MWH	BA
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS1	0.9	Solar Photovoltaic	SUN	PV
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS2	0.9	Solar Photovoltaic	SUN	PV
2017	8	60916	SR Kersey, LLC	IPP	SR Kersey	CO	61314	KERS	3.5	Solar Photovoltaic	SUN	PV
2017	8	61090	San Luis Solar Garden LLC	IPP	San Luis Solar Garden	CO	61472	ANTO2	1.2	Solar Photovoltaic	SUN	PV
2017	8	60163	Soltage LLC	IPP	231 Dixon 74 Solar I, LLC	NC	61195	DIXON	2.0	Solar Photovoltaic	SUN	PV
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV
2017	8	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV
2017	8	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA
2017	8	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	8	60947	Tesla Inc.	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	9	60863	ACE-Stanton A, LLC	IPP	ACE-Stanton A PV	FL	61247	ASA1	4.1	Solar Photovoltaic	SUN	PV
2017	9	60862	ACE-Stanton, LLC	IPP	ACE-Stanton PV	FL	61246	ASLF1	4.8	Solar Photovoltaic	SUN	PV
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV
2017	9	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Boaz Farm Solar	NC	61157	BOAZF	5.0	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV
2017	9	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV
2017	9	60990	Cline Solar, LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Long Henry Solar	NC	61347	GEN1	2.0	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Black Eagle Solar, LLC	MT	61336	BESMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Great Divide Solar, LLC	MT	61335	GDSMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Magpie Solar, LLC	MT	61337	MSMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV
2017	9	60917	Golden Hills Solar, LLC	IPP	Golden Hills Solar	MA	61315	02196	4.7	Solar Photovoltaic	SUN	PV

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	9	60926	Hatfield Renewables, LLC	IPP	Hatfield Renewables	MA	61299	02599	1.9	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	9	58822	MC Power Companies Inc	IPP	BPU Solar Farm	KS	61313	BPU1	1.0	Solar Photovoltaic	SUN	PV
2017	9	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV
2017	9	61040	Moorings Farm 2, LLC	IPP	Moorings Farm 2	NC	61405	1	5.0	Solar Photovoltaic	SUN	PV
2017	9	56990	NJR Clean Energy Ventures Corporation	IPP	Princeton Solar Project	NJ	61354	STONY	2.5	Solar Photovoltaic	SUN	PV
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV
2017	9	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	9	61058	One Ten Partner, LLC	IPP	One Ten Partners PV	CA	61419	OTP	2.0	Solar Photovoltaic	SUN	PV
2017	9	60925	Pleasantdale Road Solar, LLC	IPP	Pleasantdale Road Solar	MA	61298	02112	1.0	Solar Photovoltaic	SUN	PV
2017	9	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT
2017	9	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT
2017	9	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV
2017	9	60924	Upton Solar, LLC	IPP	Upton Solar	MA	61297	02567	2.0	Solar Photovoltaic	SUN	PV

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	1	9303	Bucksport Generation LLC	Electric CHP	Bucksport Generation LLC	ME	50243	GEN2	21.0	Wood/Wood Waste Biomass	WDS	ST
2017	1	19204	City of Trinidad - (CO)	Electric Utility	Trinidad (CO)	CO	511	1	3.8	Conventional Steam Coal	BIT	ST
2017	1	57249	EPP Renewable Energy	IPP	Moretown	VT	56891	GEN 1	1.6	Landfill Gas	LFG	IC
2017	1	11241	Entergy Louisiana LLC	Electric Utility	R S Nelson	LA	1393	3	146.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	5	312.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	6	317.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	7	682.0	Natural Gas Steam Turbine	NG	ST
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	1	56773	Toyon Landfill Gas Conversion, LLC	IPP	Toyon Power Station	CA	54327	TOY3	1.7	Landfill Gas	LFG	IC
2017	1	19900	Viking Energy Corp	Electric CHP	Viking Energy of Northumberland	PA	50771	GEN1	16.2	Wood/Wood Waste Biomass	WDS	ST
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G102	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G103	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G104	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	S101	50.3	Natural Gas Fired Combined Cycle	NG	CA
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	S102	12.1	Natural Gas Fired Combined Cycle	NG	CA
2017	2	57249	EPP Renewable Energy	Electric CHP	Frey Farm Landfill	PA	56510	GEN1	1.6	Landfill Gas	LFG	IC
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT4	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT5	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT6	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	E2	0.8	Other Waste Biomass	OBG	IC
2017	2	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	E5	1.8	Other Waste Biomass	OBG	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Reedy Creek	GA	54849	G1	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Reedy Creek	GA	54849	G2	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Sandersville	GA	54841	G1	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Sandersville	GA	54841	G2	1.1	Petroleum Liquids	DFO	IC
2017	2	55808	Westmoreland Partners	Electric CHP	Roanoke Valley Energy Facility I	NC	54035	GEN1	165.0	Conventional Steam Coal	BIT	ST
2017	2	55808	Westmoreland Partners	Electric CHP	Roanoke Valley Energy Facility II	NC	54755	GEN2	44.0	Conventional Steam Coal	BIT	ST
2017	3	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GT1	11.0	Petroleum Liquids	DFO	GT
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	3	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	3	10023	TC Ravenswood LLC	IPP	Ravenswood	NY	2500	GT7	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	3	20863	Wisconsin River Power Company	Electric Utility	Juneau	WI	8050	31	12.6	Petroleum Liquids	DFO	GT
2017	4	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.1	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	5	29849	Wasatch Integrated Waste Management	Electric CHP	Wasatch Energy Systems Energy Recovery	UT	55302	1	1.6	Municipal Solid Waste	MSW	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	225.2	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	237.8	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	575.0	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	435.0	Petroleum Liquids	RFO	ST
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	9	50.0	Petroleum Liquids	DFO	GT
2017	6	55838	Exelon Wind 1, LLC	IPP	EXC Wind 1	TX	56557	1	10.0	Onshore Wind Turbine	WND	WT
2017	6	55837	Exelon Wind 2, LLC	IPP	EXC Wind 2	TX	56558	JDW2	10.0	Onshore Wind Turbine	WND	WT
2017	6	55836	Exelon Wind 3, LLC	IPP	EXC Wind 3	TX	56559	JDW3	10.0	Onshore Wind Turbine	WND	WT
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Hudson Generating Station	NJ	2403	2	620.0	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	1	316.0	Conventional Steam Coal	BIT	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	2	316.0	Conventional Steam Coal	BIT	ST
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND1	0.8	Onshore Wind Turbine	WND	WT
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND2	0.8	Onshore Wind Turbine	WND	WT

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2A	0.4	Petroleum Liquids	DFO	IC
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTA	23.0	Petroleum Liquids	DFO	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTB	25.0	Petroleum Liquids	DFO	GT
2017	7	21352	Municipal Energy Agency of NE	Electric Utility	MEAN Wind Project	NE	56106	1	10.5	Onshore Wind Turbine	WND	WT
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN1	0.5	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN2	0.5	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN3	0.7	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN4	0.7	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN5	0.7	Petroleum Liquids	DFO	IC
2017	8	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	9	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	10	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	10	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	10	60281	Altus Power America Management, LLC	IPP	DDR Shoppers World	MA	60754	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	10	60692	Ameresco BWC Wading River LLC	IPP	BWC Wading River One, Two, Three	MA	61069	62381	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	10	60541	Ameresco Glendale Road Solar PV LLC	IPP	Northampton Landfill Solar PV	MA	60908	62380	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2017	10	60729	Bakersfield PV 1, LLC	IPP	Bakersfield PV 1	CA	61117	BAKE1	5.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.3
2017	10	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.5
2017	10	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	10	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.0
2017	10	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.0
2017	10	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.9
2017	10	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.9
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	236.0
2017	10	7294	City of Glendale - (CA)	Electric Utility	Glendale Battery Energy Storage System	CA	60974	2BESS	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	10	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	60795	Columbus Solar Project	IPP	Columbus Solar Project	NM	61165	88029	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2017	10	61060	Cypress Creek Renewables	IPP	Bear Creek Solar	NC	61351	GEN1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	61060	Cypress Creek Renewables	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	10	61060	Cypress Creek Renewables	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	61060	Cypress Creek Renewables	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	6455	Duke Energy Florida, LLC	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2017	10	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	79.0
2017	10	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	155.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	155.4
2017	10	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	10	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	10	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	10	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	10	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	10	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	369.0
2017	10	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	231.3
2017	10	60739	Gulf Coast Solar Center II (CA)	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	40.0
2017	10	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	10	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	10	61022	Hecate Energy Cherrydale LLC	Electric Utility	Cherrydale Solar Power Facility	VA	61375	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	10	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	7	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2017	10	60461	LSDP 11, LLC	IPP	Deerfield Solar	MA	60775	PV1	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60727	Manteca Land PV, LLC	IPP	Manteca Land PV	CA	61115	MANT1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	66.0
2017	10	61039	Pikeville Farm, LLC	IPP	Pikeville Farm	NC	61404	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	15257	Poudre Valley Associated Services, Inc.	Electric Utility	Coyote Ridge Community Solar	CO	61425	COYCS	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.0
2017	10	60649	Redbrook Solar 1, LLC	IPP	Redbrook Community Solar 1	MA	61007	REDBR	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	10	61081	SR Platte	IPP	SR Platte Solar Farm	CO	61462	PV1	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	10	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60163	Soltage LLC	IPP	Broadridge Solar, LLC	NC	61218	BROAD	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	10	60163	Soltage LLC	IPP	Mill Pond Solar Farm, LLC	NC	61196	MILLL	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	10	60652	Stafford St Solar 1, LLC	IPP	Stafford St Solar 1	MA	61016	STAF1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	60653	Stafford St Solar 2, LLC	IPP	Stafford St Solar 2	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	10	60654	Stafford St Solar 3, LLC	IPP	Stafford St Solar 3	MA	61018	STAF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	10	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA2	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2017	10	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	10	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8
2017	10	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	10	60947	Tesla Inc.	IPP	Oneida County- DPW	NY	60114	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	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
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	10	60059	ZGlobal Inc	IPP	Valencia 1 Solar CA	CA	61418	VAL1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2017	11	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	1	0.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.8
2017	11	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS4	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	60730	Bakersfield Industrial PV 1, LLC	IPP	Bakersfield Industrial PV 1	CA	61118	BIND1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	11	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.8
2017	11	58519	Clean Energy Collective LLC	IPP	Conejos 1 Community Solar Array	CO	60723	CONEJ	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	11	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	56769	Consolidated Edison Development Inc.	IPP	CED Foster	RI	61499	FORI	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	11	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Jakin GA PV	GA	61397	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Swainsboro	GA	61459	PV1	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.9
2017	11	61042	Cottonwood Wind Project	IPP	Cottonwood Wind Energy Center	NE	61407	CTNWD	89.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	89.7
2017	11	61060	Cypress Creek Renewables	IPP	Highway 56 Solar	TX	61409	GEN1	5.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.3
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	293.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	362.0
2017	11	56215	E ON Climate Renewables N America LLC	IPP	Inadale Wind Farm LLC	TX	56984	INABT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	11	60869	EDF Renewable Energy	IPP	Rock Falls Wind Farm LLC	OK	61261	RF1	154.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	154.5
2017	11	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.5
2017	11	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	11	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	11	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	11	60811	Golden Hills Interconnection Wind, LLC	IPP	Golden Hills North Wind Energy Center	CA	61222	1	46.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	46.0
2017	11	60969	Hog Creek Wind Project LLC	IPP	Hog Creek Wind Project	OH	61330	WT1	66.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	66.0
2017	11	61028	LSE Cassiopeia LLC	IPP	Ashby Duffy Solar Farm	MA	61399	DU183	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2017	11	58822	MC Power Companies Inc	IPP	Higginsville Solar Farm	MO	61316	HSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42278	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42279	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42280	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42281	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42282	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42286	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42287	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42288	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41620	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41621	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41622	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42292	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42294	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42295	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42296	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42297	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	11	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.9
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	1	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	2	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	3	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61071	Northfield Holdco LLC	IPP	Northfield Holdco	MN	61451	NORTH	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	11	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	11	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	11	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	11	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	11	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	11	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	493.0
2017	11	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	11	61093	SL Babylon, LLC	IPP	SL Babylon	NY	61487	SLBAB	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2017	11	60919	Sampson Road Solar, LLC	IPP	Sampson Road Solar	MA	61308	02696	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	11	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Richmond CSG	MN	61427	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	11	60520	SoCore Energy LLC	IPP	VEC Magee Hill Solar	VT	60954	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2017	11	60947	Tesla Inc.	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	11	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	11	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	21.0
2017	11	61072	Waterford Holdco LLC	IPP	Waterford Holdco	MN	61452	WATER	2.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.7
2017	11	60542	Willow Springs Windfarm, LLC	IPP	Willow Springs Wind Farm	TX	60901	WSPWF	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2017	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	12	61105	ABEC #2 LLC	IPP	ABEC #2	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61106	ABEC #3 LLC	IPP	ABEC #3	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61107	ABEC #4 LLC	IPP	ABEC #4	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	12	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	79.2
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.4
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	127.0
2017	12	15399	Avangrid Renewables LLC	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	15399	Avangrid Renewables LLC	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	298.0
2017	12	15399	Avangrid Renewables LLC	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	143.0
2017	12	15399	Avangrid Renewables LLC	IPP	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	75.0
2017	12	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2017	12	60746	Bedford Solar, LLC	IPP	Bedford Solar	VA	61126	12346	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	25.0
2017	12	60944	Bluff Point Wind, LLC	IPP	Bluff Point Wind Facility	IN	61303	BLUFF	119.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	119.7
2017	12	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	202.0
2017	12	61096	Cameron Solar, LLC	IPP	Cameron Solar	SC	61489	CAM	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	361.3
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.1
2017	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2017	12	60380	Cork Oak Solar LLC	IPP	Cork Oak Solar	NC	60637	NC160	26.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58695	Coronal Development Services	IPP	Essex Solar Center	VA	61406	ESSEX	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58695	Coronal Development Services	IPP	Martin Solar Center	VA	61458	MARTN	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	58695	Coronal Development Services	IPP	Palmer Solar Center	VA	61457	PALM	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	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
2017	12	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
2017	12	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
2017	12	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
2017	12	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
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61060	Cypress Creek Renewables	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bondi Solar	NC	61352	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Next Generation Solar Farm	VT	61340	NGSF1	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	12	61060	Cypress Creek Renewables	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.2
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar	TX	61410	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar II	TX	61411	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61111	DG New Jersey Solar, LLC	IPP	DG New Jersey Solar RLS Logistics	NJ	61507	RLSNJ	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	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
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2017	12	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.8
2017	12	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	58468	Dominion Renewable Energy	IPP	Southampton Solar, LLC	VA	61422	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Crittenden Solar Facility	KY	61310	PV1	2.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.7
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 1 Solar Facility	KY	61311	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 2 Solar Facility	KY	61312	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Bruennings Breeze Wind Farm	TX	59066	MVII	228.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	228.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9

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)
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Radfords Run Wind Farm	IL	59061	WT1	278.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	278.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	4.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	4.0
2017	12	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 3, LLC	OR	61201	ORSR3	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	8.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 6, LLC	OR	61430	PV6	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2017	12	61097	Estill Solar I, LLC	IPP	Estill Solar	SC	61490	EST1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	130.0
2017	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	121.5
2017	12	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
2017	12	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	31.0
2017	12	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2017	12	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	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
2017	12	61095	Hampton Solar II, LLC	IPP	Hampton Solar 2	SC	61498	HAM2	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	57389	IKEA Property Inc	IPP	IKEA Grand Prairie Rooftop PV System	TX	61309	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2017	12	57389	IKEA Property Inc	Commercial	IKEA Joliet Rooftop PV System	IL	61192	PV	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.1
2017	12	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	12	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	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
2017	12	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	12	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	168.0
2017	12	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Armstrong	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of MN Lake	MN	61140	0000D	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Vetter Farms	MN	61141	0000F	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	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
2017	12	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	12	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	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
2017	12	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2017	12	60997	Red Pine Wind Project, LLC	IPP	Red Pine Wind Project	MN	61357	RP1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	7.0
2017	12	60978	SP Solar 5, LLC	IPP	Mill Creek Solar (OR)	OR	61338	PGRC1	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	12	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	60595	Spartan PV 1, LLC	IPP	Spartan PV 1	MI	60945	PV1	10.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.5
2017	12	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	81.0
2017	12	60381	Sunflower Solar LLC	IPP	Sunflower Solar	NC	60638	NC160	20.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.8
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.5
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9

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)
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.6
2017	12	60947	Tesla Inc.	IPP	Maricopa County Community Colleges- Estr	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2017	12	60947	Tesla Inc.	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	Sacramento Regional County Sanitation PV	CA	61209	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	12	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	12	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2017	12	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.8
2017	12	61082	Vandenberg Solar I, LLC	IPP	Vandenberg Solar Project	CA	61463	VBERG	20.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.5
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.6
2017	12	60749	Wadesboro Solar, LLC	IPP	Wadesboro Solar	NC	61129	12347	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	12	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	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
2017	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
2017	12	60059	ZGlobal Inc	IPP	Madera 1 PV	CA	61421	MDRA1	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2017	12	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	1	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	44.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
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	(L) Regulatory approvals pending. Not under construction	7.8
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	460.0
2018	1	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	1	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2018	1	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	1	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(TS) Construction complete, but not yet in commercial operation	37.0
2018	2	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	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	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	2	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2018	2	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	2	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	2	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	2	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	3	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	3	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	3	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	61060	Cypress Creek Renewables	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2018	3	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6	360.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	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
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.0
2018	3	60947	Tesla Inc.	IPP	Hamilton College	NY	61103	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	60947	Tesla Inc.	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	3	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
2018	4	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	4	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.4
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.5
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	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
2018	4	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
2018	4	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
2018	4	49893	Invenergy Services LLC	IPP	Santa Rita Wind Energy	TX	60987	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	4	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	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	4	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	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	4	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	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	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	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	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	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	4	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	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	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	4	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	4	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	4	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	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	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	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	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	4	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	4	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	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	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	4	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	5	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	280.5
2018	5	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	5	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	5	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	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	5	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	5	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	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	5	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	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	5	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	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	205.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	6	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
2018	6	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	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	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	6	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	6	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	6	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2018	6	59997	Customized Energy Solutions	IPP	ESS Lewes	DE	60216	ESSLS	8.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	8.0
2018	6	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2018	6	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	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	6	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	6	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	6	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	6	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	93.5
2018	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
2018	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2018	6	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	230.0
2018	6	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
2018	6	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
2018	6	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
2018	6	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
2018	6	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2018	6	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	6	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	287.0
2018	6	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	476.9
2018	6	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2018	6	60596	Western Grid Development, LLC	IPP	Santa Paula Energy Storage	CA	60946	SPES1	5.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	6	60817	Winton Solar 2 LLC	IPP	Winton Solar 2	NC	61188	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	7	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	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	7	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	58.2
2018	7	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
2018	7	60953	Farmingdale Fuel Cell, LLC	Electric CHP	Farmingdale Fuel Cell	NY	61317	MB-21	1.4	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2018	7	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
2018	7	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	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	7	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	7	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
2018	7	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	7	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
2018	7	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	53.0
2018	7	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
2018	7	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	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	7	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
2018	7	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
2018	7	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	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
2018	8	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	8	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	8	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
2018	8	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
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	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
2018	8	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
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	8	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	122.0
2018	8	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
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	9	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	105.0
2018	9	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	99.0
2018	9	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	9	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

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	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	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
2018	9	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
2018	9	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
2018	9	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
2018	9	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
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	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
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	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
2018	10	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	152.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.0
2018	10	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
2018	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
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wrigth 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	Wrigth 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	Wrigth Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	600.0
2018	10	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
2018	10	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
2018	10	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
2018	10	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
2018	10	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
2018	10	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	2.7
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	10	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2018	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2018	11	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
2018	11	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	11	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
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.2
2018	11	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
2018	12	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	12	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
2018	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	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
2018	12	15399	Avangrid Renewables LLC	IPP	Gala Solar	OR	61048	PV1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2018	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
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	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
2018	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
2018	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
2018	12	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
2018	12	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	90.0
2018	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	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	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	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem 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
2018	12	58190	Bluestem 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
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	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
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	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
2018	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
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	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
2018	12	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
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	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
2018	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
2018	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
2018	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
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2018	12	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
2018	12	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
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	201.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
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	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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
2018	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
2018	12	60603	Eisenhower Solar, LLC	IPP	Eisenhower Solar	NC	60963	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	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
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	76.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	76.0
2018	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
2018	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
2018	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
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	59745	First Solar Asset Management	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	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	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
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	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
2018	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
2018	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
2018	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
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
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	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
2018	12	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
2018	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	12	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	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
2018	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
2018	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
2018	12	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
2018	12	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
2018	12	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
2018	12	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
2018	12	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
2018	12	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
2018	12	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
2018	12	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
2018	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
2018	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
2018	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
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	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	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
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	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

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	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
2018	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
2018	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
2018	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
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	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	58860	Southbridge Recycling and Disposal Park	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2018	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	35.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	35.0
2018	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
2018	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
2018	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
2018	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
2018	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
2018	12	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
2018	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2018	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	394.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	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
2018	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
2018	12	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	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
2018	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
2018	12	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	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
2018	12	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
2018	12	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
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	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
2018	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
2018	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
2018	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
2018	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
2019	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
2019	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
2019	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
2019	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
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	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
2019	1	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
2019	1	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
2019	1	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
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	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	1	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	2	60840	93LF 8me LLC	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	252.3
2019	2	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
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	(T) Regulatory approvals received. Not under construction	65.0
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	200.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2019	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
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	4	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	488.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2019	5	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	225.0
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	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	(L) Regulatory approvals pending. Not under construction	18.3
2019	6	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

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	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
2019	6	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
2019	6	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
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	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
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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2019	6	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
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	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
2019	6	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
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	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2019	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC2	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2019	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
2019	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
2019	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
2019	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
2019	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
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	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
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	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
2019	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
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	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
2019	7	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
2019	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(L) Regulatory approvals pending. Not under construction	42.0
2019	7	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
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	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	10	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
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	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	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	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	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
2019	11	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
2019	11	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
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	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	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	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
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	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
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	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
2019	12	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
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	60288	Cattle Ridge Wind Farm, 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	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	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	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
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	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
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	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	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
2019	12	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
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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

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	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	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	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
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	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	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	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	182.0
2019	12	60604	Mountain Lion Solar, LLC	IPP	Mountain Lion Solar	NC	60950	PV1	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
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	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	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	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
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	60601	River Otter Solar, LLC	IPP	River Otter Solar	NC	60969	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
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	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	58661	Sustainable Power Group, LLC	IPP	ESI Project	CA	50819	SHWA	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0
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	60427	WPD Wind Projects Inc	IPP	New Colony Wind Project	MT	60718	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
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	20323	Wellhead Services Inc	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
2019	12	20323	Wellhead Services Inc	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
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT3	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
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	13478	Entergy New Orleans Inc	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	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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	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
2020	1	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
2020	1	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
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	260.1
2020	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
2020	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
2020	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
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	2	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
2020	2	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
2020	2	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
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
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	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	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	5	60385	Energy Nuevo Storage Farm	Industrial	Energy Nuevo Storage Farm	CA	60646	NUEVO	20.0	Flywheels	MWH	FW	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	GTG1	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	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	500.0
2020	6	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
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	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	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
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
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	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	6	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	6	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	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

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	6	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	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
2020	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
2020	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
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	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	7	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	7	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	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	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
2020	8	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
2020	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
2020	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
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	BA1	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
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	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	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2020	11	49880	EDP Renewables North America 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	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	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	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
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	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
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	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	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
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	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
2020	12	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
2020	12	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	12	58763	Summit Ridge Wind Holdings, LLC	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	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
2021	1	58702	AES Energy Storage	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
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	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	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
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	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	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
2021	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
2021	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
2021	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
2021	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
2021	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
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	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	498.2	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	552.0
2021	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	474.3	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	534.5
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	123.6	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	136.0
2021	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
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	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
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	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
2022	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
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 Landfill	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 Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	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
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	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
2017	10	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	10	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	11	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2017	12	2053	Bowater Newport Coosa Pines Op	Industrial	U S Alliance Coosa Pines	AL	54216	AOW6	12.5	Natural Gas Steam Turbine	NG	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	1	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	2	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	3	41.0	Conventional Steam Coal	SUB	ST
2017	12	9205	Illinois Electricial Gen Partn	IPP	Streator Energy Partners LLC	IL	55760	ST1	0.9	Landfill Gas	LFG	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2017	12	49979	Topaz Power Group LLC	IPP	Barney M Davis	TX	4939	1	330.0	Natural Gas Steam Turbine	NG	ST
2018	1	49735	HGST a Western Digital Company	Industrial	HGST San Jose Standby Generator	CA	50024	50MW	42.0	Petroleum Liquids	DFO	GT
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	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	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	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	ST
2018	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	0.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2018	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	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

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	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	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	1	577.0	Conventional Steam Coal	BIT	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
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	53.5	Petroleum Liquids	KER	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
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	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
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	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	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	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	10	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	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	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
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	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	42.2	Conventional Steam Coal	SUB	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	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2018	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
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	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	6	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	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
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	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	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	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
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	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	6	20.9	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	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	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
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	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	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	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	12	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	6	495.0	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	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	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	107.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
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	24.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	50.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	51.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	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	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT2	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT3	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	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	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	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	BIT	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
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	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

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	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	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	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	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	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
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	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
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	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	Carlsbad	NM	2453	5	10.0	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
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	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
2042	7	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	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-September 2017

	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%
Year 2015								
January	61.4%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	65.0%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.9%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	44.0%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
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%	50.5%	6.6%	4.3%	NA	10.7%	1.6%	NA
February	49.4%	48.3%	6.9%	3.9%	NA	9.5%	2.0%	NA
March	46.2%	48.2%	9.8%	7.8%	NA	12.9%	2.1%	NA
April	43.8%	45.9%	8.3%	8.6%	NA	9.5%	1.2%	NA
May	48.1%	49.5%	9.0%	9.9%	NA	15.4%	1.9%	NA
June	58.4%	60.2%	9.9%	15.4%	NA	15.3%	1.8%	NA
July	67.2%	70.1%	12.8%	21.5%	NA	18.1%	2.1%	NA
August	62.9%	69.3%	11.0%	18.6%	NA	14.3%	2.2%	NA
Sept	53.4%	58.8%	11.7%	15.4%	NA	13.5%	3.0%	NA

Values for 2016 and prior years are final. Values for 2017 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-September 2017

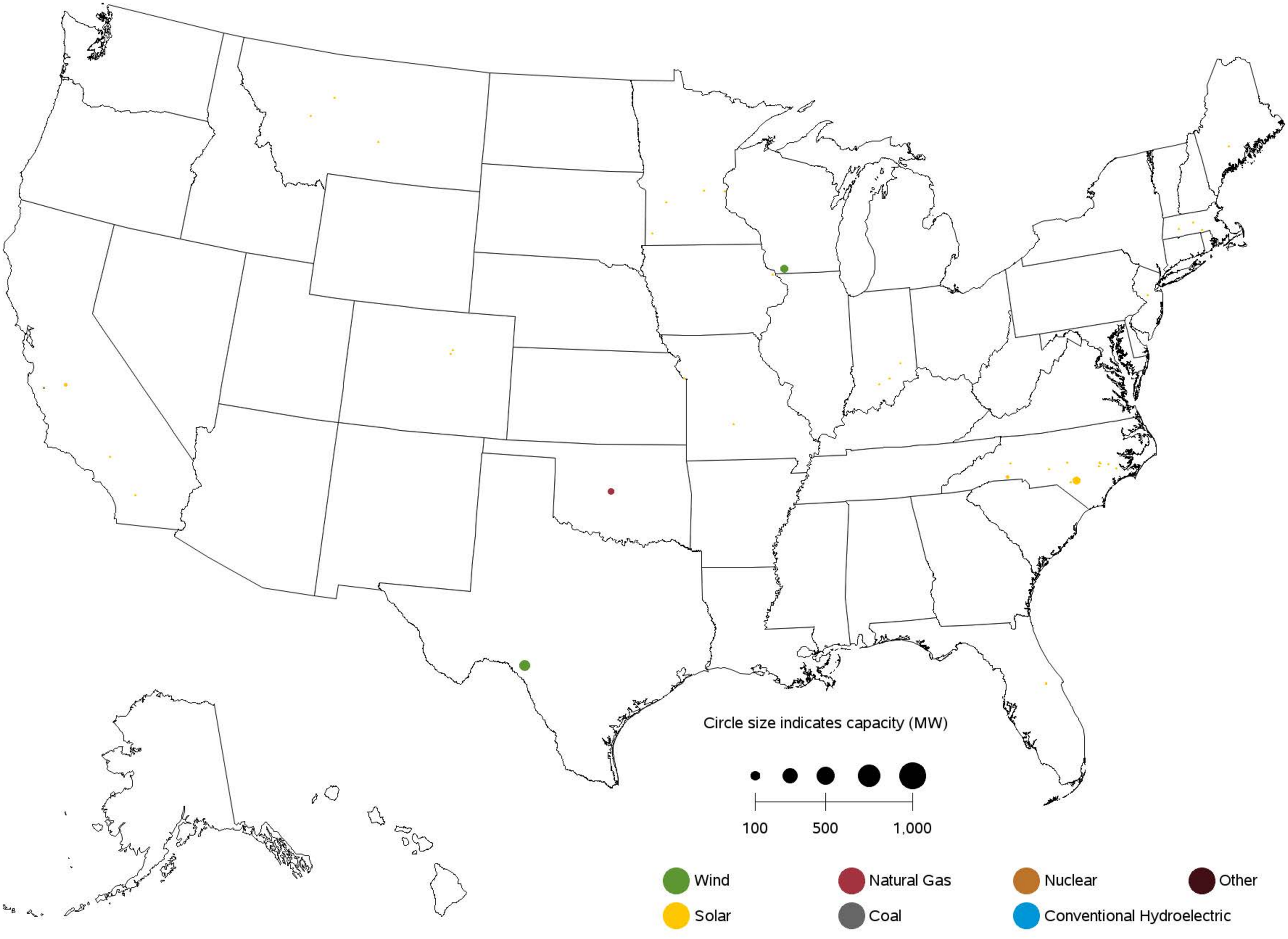
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	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%
Year 2015								
January	101.3%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
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%	36.5%	16.8%	7.3%	75.4%	49.4%	79.7%
February	95.7%	47.8%	42.4%	19.8%	11.7%	71.6%	55.5%	77.9%
March	87.9%	54.1%	44.6%	27.8%	22.9%	67.7%	51.8%	74.9%
April	79.2%	53.9%	45.0%	31.0%	24.9%	67.9%	51.2%	78.6%
May	82.8%	56.8%	38.8%	34.1%	31.0%	70.6%	47.0%	74.0%
June	93.5%	57.1%	34.4%	35.7%	37.9%	72.6%	49.1%	75.2%
July	96.3%	46.1%	27.6%	33.7%	25.4%	71.3%	51.0%	78.0%
August	97.7%	37.9%	22.4%	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%

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

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

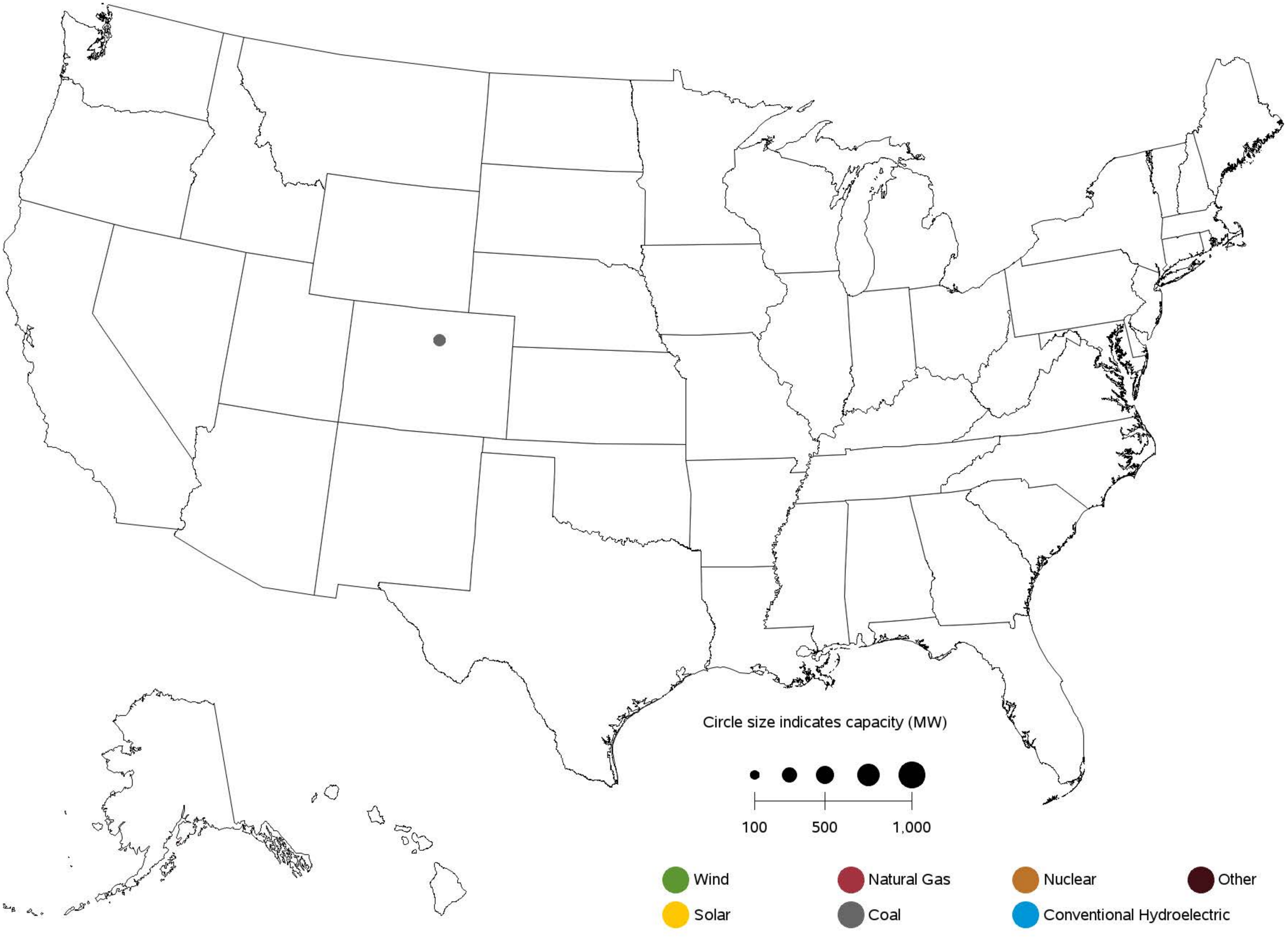
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in September 2017



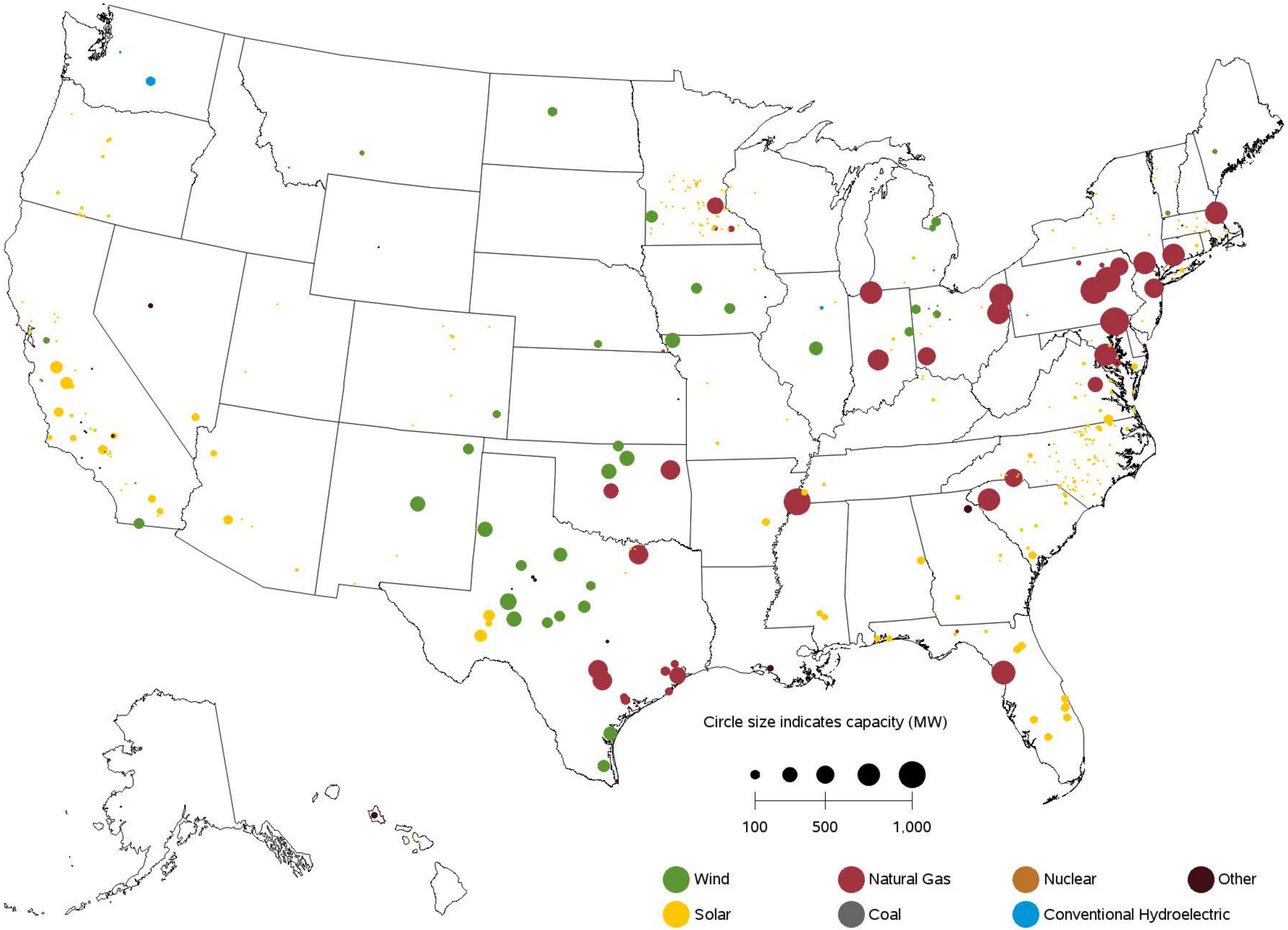
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in September 2017



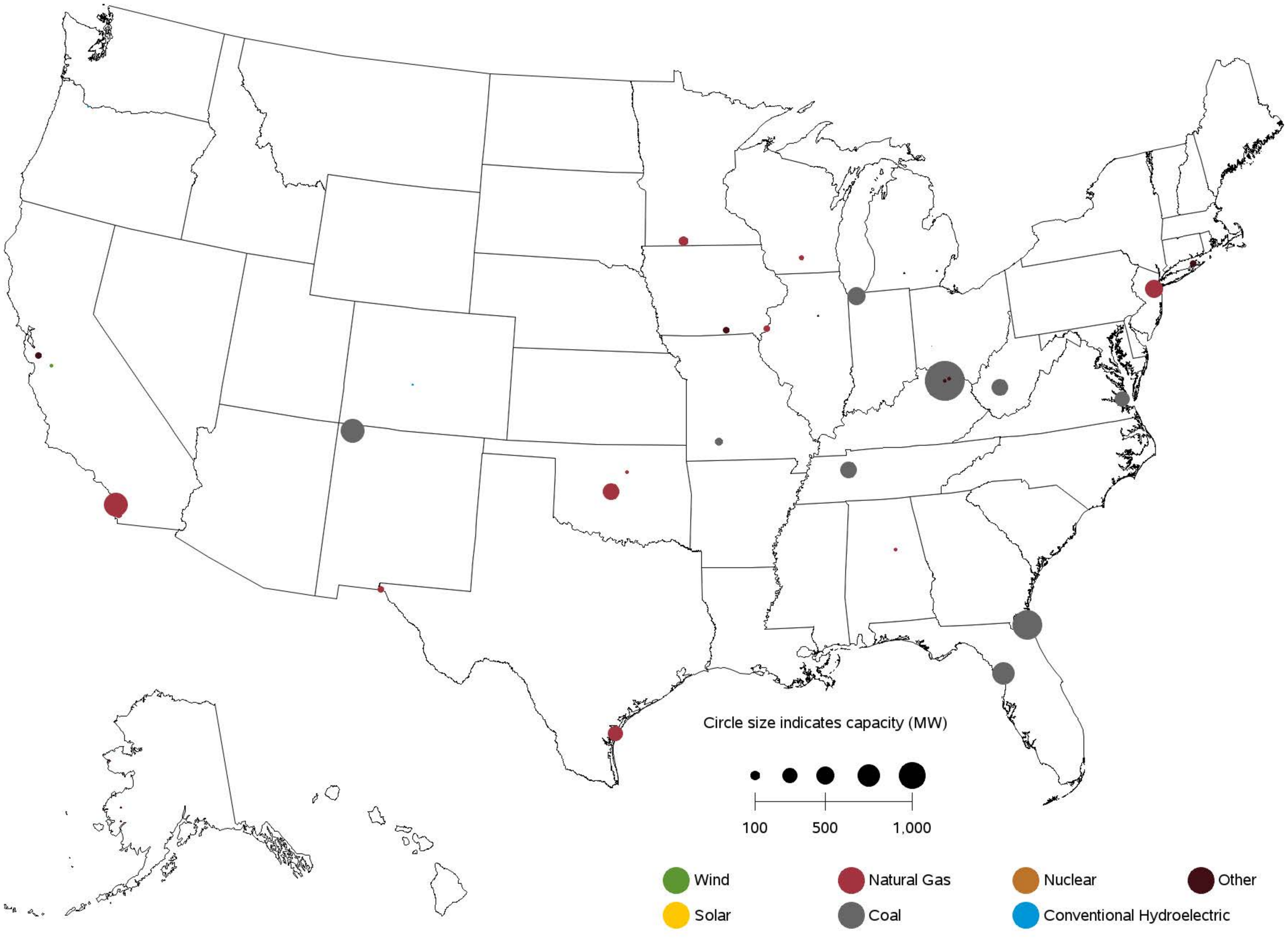
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from October 2017 to September 2018



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from October 2017 to September 2018



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 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	4,426,999	6,647,082	69,600,817	9,329,463	60,271,354
Year 2016							
January	5,886,417	227,589	405,984	391,636	6,292,401	619,225	5,673,176
February	4,927,541	384,301	354,896	318,144	5,282,437	702,445	4,579,992
March	5,210,412	410,645	417,364	441,056	5,627,776	851,701	4,776,075
April	4,092,342	358,746	389,947	311,760	4,482,289	670,506	3,811,783
May	4,977,621	142,398	378,826	431,533	5,356,447	573,931	4,782,516
June	6,162,812	94,538	363,393	738,211	6,526,205	832,749	5,693,456
July	6,969,110	78,459	362,863	838,475	7,331,973	916,934	6,415,039
August	6,577,610	149,565	383,363	825,076	6,960,973	974,641	5,986,332
Sept	4,631,320	161,183	286,640	805,125	4,917,960	966,308	3,951,652
October	4,989,801	320,694	436,941	436,044	5,426,742	756,738	4,670,004
November	5,809,773	109,219	359,166	559,837	6,168,939	669,056	5,499,883
December	4,939,059	245,044	287,616	550,185	5,226,675	795,229	4,431,446
Year 2017							
January	5,277,771	172,909	325,772	658,237	5,603,543	831,146	4,772,397
February	4,131,760	359,401	282,486	600,378	4,414,246	959,779	3,454,467
March	4,598,818	663,648	223,689	521,388	4,822,507	1,185,036	3,637,471
April	5,262,194	619,414	207,404	579,407	5,469,598	1,198,821	4,270,777
May	4,912,110	341,657	129,523	532,294	5,041,633	873,951	4,167,682
June	5,637,814	242,997	104,319	819,173	5,742,133	1,062,170	4,679,963

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

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

Total (All Sectors) by Census Division and State, September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**16**	**9**	**0**	**6**	**0**	**0**	**8**
Connecticut	0	34	0	5	0	0	34
Maine	34	5	0	57	0	0	11
Massachusetts	0	12	0	9	0	0	23
New Hampshire	0	30	0	0	0	0	18
Rhode Island	0	90	0	31	0	0	0
Vermont	0	60	0	0	0	0	18
Middle Atlantic	**2**	**13**	**63**	**3**	**14**	**0**	**2**
New Jersey	0	48	0	12	0	0	440
New York	0	17	0	5	0	0	1
Pennsylvania	2	13	130	3	20	0	12
East North Central	**0**	**5**	**13**	**3**	**7**	**0**	**9**
Illinois	0	18	0	15	0	0	38
Indiana	1	4	0	6	10	0	29
Michigan	3	5	0	2	0	0	17
Ohio	1	10	32	5	15	0	26
Wisconsin	1	22	0	4	0	0	12
West North Central	**1**	**9**	**0**	**10**	**0**	**0**	**6**
Iowa	1	12	0	7	0	0	22
Kansas	2	10	0	22	0	0	0
Minnesota	4	27	0	8	0	0	18
Missouri	0	10	0	37	0	0	16
Nebraska	4	117	0	36	0	0	17
North Dakota	0	17	0	20	0	0	15
South Dakota	0	80	0	24	0	0	10
South Atlantic	**0**	**6**	**12**	**1**	**26**	**0**	**6**
Delaware	0	46	0	23	29	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	43
Georgia	0	28	126	3	0	0	9
Maryland	0	6	0	11	0	0	2
North Carolina	0	12	0	2	0	0	9
South Carolina	0	27	0	4	0	0	14
Virginia	10	17	0	2	0	0	15
West Virginia	1	0	0	16	0	0	19
East South Central	**3**	**13**	**0**	**2**	**54**	**0**	**5**
Alabama	0	59	0	2	81	0	6
Kentucky	0	3	0	21	0	0	12
Mississippi	0	56	0	3	0	0	0
Tennessee	12	25	0	9	0	0	7
West South Central	**0**	**16**	**1**	**1**	**6**	**0**	**7**
Arkansas	0	13	0	9	0	0	10
Louisiana	0	90	0	2	9	0	18
Oklahoma	0	9	0	3	0	0	11
Texas	0	19	56	2	7	0	16
Mountain	**1**	**5**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	3
Colorado	0	63	0	2	0	0	16
Idaho	95	0	0	11	0	0	7
Montana	5	15	0	16	0	0	7
Nevada	0	0	0	0	0	0	2
New Mexico	0	18	0	3	0	0	64
Utah	0	2	0	3	0	0	24
Wyoming	3	2	0	9	0	0	20
Pacific Contiguous	**0**	**9**	**0**	**1**	**2**	**0**	**2**
California	0	8	0	1	3	0	5
Oregon	0	0	0	3	0	0	3
Washington	0	58	0	5	0	0	1
Pacific Noncontiguous	**14**	**1**	**0**	**13**	**0**	**0**	**16**
Alaska	50	4	0	13	0	0	16
Hawaii	0	1	0	0	0	0	39
U.S. Total	**0**	**2**	**5**	**1**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, September 2017 (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**	**8**	**6**	**0**	**1**	**3**
Connecticut	0	0	0	33	14	0	0	2
Maine	0	0	0	81	9	0	0	14
Massachusetts	0	0	0	8	6	0	2	6
New Hampshire	0	0	0	0	19	0	0	2
Rhode Island	0	0	0	60	10	0	0	29
Vermont	0	0	0	24	17	0	0	13
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	6
New York	0	0	0	16	5	0	2	2
Pennsylvania	0	0	0	27	5	0	0	1
East North Central	**0**	**0**	**0**	**10**	**4**	**0**	**3**	**1**
Illinois	0	0	0	20	5	0	0	1
Indiana	0	0	0	14	7	0	0	1
Michigan	0	0	0	19	6	0	12	1
Ohio	0	0	0	24	6	0	0	1
Wisconsin	0	0	0	50	9	0	50	1
West North Central	**0**	**0**	**0**	**8**	**3**	**0**	**6**	**1**
Iowa	0	0	0	76	5	0	0	2
Kansas	0	0	0	100	2	0	0	2
Minnesota	0	0	0	8	5	0	4	2
Missouri	0	0	0	28	8	0	0	2
Nebraska	0	0	0	53	7	0	0	3
North Dakota	0	0	0	0	5	0	51	1
South Dakota	0	0	0	192	11	0	0	5
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	34	24	0	0	20
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	5	4	0	1	1
Georgia	0	0	0	5	4	0	17	1
Maryland	0	0	0	14	7	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	24	6	0	0	1
Virginia	0	0	0	16	8	0	0	1
West Virginia	0	0	0	0	12	0	0	1
East South Central	**0**	**0**	**0**	**10**	**5**	**0**	**17**	**1**
Alabama	0	0	0	20	7	0	0	1
Kentucky	0	0	0	0	23	0	0	3
Mississippi	0	0	0	7	6	0	0	3
Tennessee	0	0	0	23	8	0	35	4
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	13	8	0	0	2
Louisiana	0	0	0	0	7	0	3	1
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	4	2	0	6	1
Mountain	**0**	**7**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	0
Colorado	0	0	0	9	3	0	0	1
Idaho	0	30	0	10	8	0	0	5
Montana	0	0	0	47	12	0	0	3
Nevada	0	8	0	3	4	0	0	1
New Mexico	0	0	0	8	3	0	0	1
Utah	0	13	0	6	5	0	0	1
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	18	0	19	5	0	0	2
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**17**	**0**	**14**	**8**	**0**	**0**	**3**
Alaska	0	0	0	0	30	0	0	9
Hawaii	0	17	0	14	8	0	0	1
U.S. Total	**0**	**3**	**0**	**2**	**1**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**16**	**9**	**0**	**6**	**0**	**0**	**8**
Connecticut	0	34	0	5	0	0	34
Maine	34	5	0	57	0	0	11
Massachusetts	0	12	0	9	0	0	23
New Hampshire	0	30	0	0	0	0	18
Rhode Island	0	90	0	31	0	0	0
Vermont	0	60	0	0	0	0	18
Middle Atlantic	**2**	**13**	**63**	**3**	**14**	**0**	**2**
New Jersey	0	48	0	12	0	0	440
New York	0	17	0	5	0	0	1
Pennsylvania	2	13	130	3	20	0	12
East North Central	**0**	**5**	**13**	**3**	**7**	**0**	**9**
Illinois	0	18	0	15	0	0	38
Indiana	1	4	0	6	10	0	29
Michigan	3	5	0	2	0	0	17
Ohio	1	10	32	5	15	0	26
Wisconsin	1	22	0	4	0	0	12
West North Central	**1**	**9**	**0**	**10**	**0**	**0**	**6**
Iowa	1	12	0	7	0	0	22
Kansas	2	10	0	22	0	0	0
Minnesota	4	27	0	8	0	0	18
Missouri	0	10	0	37	0	0	16
Nebraska	4	117	0	36	0	0	17
North Dakota	0	17	0	20	0	0	15
South Dakota	0	80	0	24	0	0	10
South Atlantic	**0**	**6**	**12**	**1**	**26**	**0**	**6**
Delaware	0	46	0	23	29	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	43
Georgia	0	28	126	3	0	0	9
Maryland	0	6	0	11	0	0	2
North Carolina	0	12	0	2	0	0	9
South Carolina	0	27	0	4	0	0	14
Virginia	10	17	0	2	0	0	15
West Virginia	1	0	0	16	0	0	19
East South Central	**3**	**13**	**0**	**2**	**54**	**0**	**5**
Alabama	0	59	0	2	81	0	6
Kentucky	0	3	0	21	0	0	12
Mississippi	0	56	0	3	0	0	0
Tennessee	12	25	0	9	0	0	7
West South Central	**0**	**16**	**1**	**1**	**6**	**0**	**7**
Arkansas	0	13	0	9	0	0	10
Louisiana	0	90	0	2	9	0	18
Oklahoma	0	9	0	3	0	0	11
Texas	0	19	56	2	7	0	16
Mountain	**1**	**5**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	3
Colorado	0	63	0	2	0	0	16
Idaho	95	0	0	11	0	0	7
Montana	5	15	0	16	0	0	7
Nevada	0	0	0	0	0	0	2
New Mexico	0	18	0	3	0	0	64
Utah	0	2	0	3	0	0	24
Wyoming	3	2	0	9	0	0	20
Pacific Contiguous	**0**	**9**	**0**	**1**	**2**	**0**	**2**
California	0	8	0	1	3	0	5
Oregon	0	0	0	3	0	0	3
Washington	0	58	0	5	0	0	1
Pacific Noncontiguous	**14**	**1**	**0**	**13**	**0**	**0**	**16**
Alaska	50	4	0	13	0	0	16
Hawaii	0	1	0	0	0	0	39
U.S. Total	**0**	**2**	**5**	**1**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through September 2017 (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**	**8**	**6**	**0**	**1**	**3**
Connecticut	0	0	0	33	14	0	0	2
Maine	0	0	0	81	9	0	0	14
Massachusetts	0	0	0	8	6	0	2	6
New Hampshire	0	0	0	0	19	0	0	2
Rhode Island	0	0	0	60	10	0	0	29
Vermont	0	0	0	24	17	0	0	13
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	6
New York	0	0	0	16	5	0	2	2
Pennsylvania	0	0	0	27	5	0	0	1
East North Central	**0**	**0**	**0**	**10**	**4**	**0**	**3**	**1**
Illinois	0	0	0	20	5	0	0	1
Indiana	0	0	0	14	7	0	0	1
Michigan	0	0	0	19	6	0	12	1
Ohio	0	0	0	24	6	0	0	1
Wisconsin	0	0	0	50	9	0	50	1
West North Central	**0**	**0**	**0**	**8**	**3**	**0**	**6**	**1**
Iowa	0	0	0	76	5	0	0	2
Kansas	0	0	0	100	2	0	0	2
Minnesota	0	0	0	8	5	0	4	2
Missouri	0	0	0	28	8	0	0	2
Nebraska	0	0	0	53	7	0	0	3
North Dakota	0	0	0	0	5	0	51	1
South Dakota	0	0	0	192	11	0	0	5
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	34	24	0	0	20
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	5	4	0	1	1
Georgia	0	0	0	5	4	0	17	1
Maryland	0	0	0	14	7	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	24	6	0	0	1
Virginia	0	0	0	16	8	0	0	1
West Virginia	0	0	0	0	12	0	0	1
East South Central	**0**	**0**	**0**	**10**	**5**	**0**	**17**	**1**
Alabama	0	0	0	20	7	0	0	1
Kentucky	0	0	0	0	23	0	0	3
Mississippi	0	0	0	7	6	0	0	3
Tennessee	0	0	0	23	8	0	35	4
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	13	8	0	0	2
Louisiana	0	0	0	0	7	0	3	1
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	4	2	0	6	1
Mountain	**0**	**7**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	0
Colorado	0	0	0	9	3	0	0	1
Idaho	0	30	0	10	8	0	0	5
Montana	0	0	0	47	12	0	0	3
Nevada	0	8	0	3	4	0	0	1
New Mexico	0	0	0	8	3	0	0	1
Utah	0	13	0	6	5	0	0	1
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	18	0	19	5	0	0	2
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**17**	**0**	**14**	**8**	**0**	**0**	**3**
Alaska	0	0	0	0	30	0	0	9
Hawaii	0	17	0	14	8	0	0	1
U.S. Total	**0**	**3**	**0**	**2**	**1**	**0**	**1**	**0**

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Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, September 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	1	0	.	0
Maine	3	4	0	.	2
Massachusetts	1	1	1	.	0
New Hampshire	1	0	0	.	1
Rhode Island	1	0	0	.	1
Vermont	4	5	113	.	3
Middle Atlantic	**0**	**0**	**1**	**.**	**0**
New Jersey	0	0	2	.	0
New York	0	0	1	.	0
Pennsylvania	2	2	0	.	1
East North Central	**1**	**1**	**3**	**.**	**1**
Illinois	3	6	0	.	3
Indiana	4	3	0	.	3
Michigan	2	8	42	.	4
Ohio	2	1	6	.	1
Wisconsin	3	6	1	.	3
West North Central	**1**	**1**	**3**	**.**	**1**
Iowa	4	2	17	.	2
Kansas	6	6	0	.	5
Minnesota	4	4	3	.	2
Missouri	1	0	0	.	1
Nebraska	11	23	23	.	10
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**5**	**.**	**1**
Delaware	2	3	32	.	2
District of Columbia	0	0	0	.	0
Florida	3	7	7	.	3
Georgia	53	146	0	.	60
Maryland	0	2	6	.	1
North Carolina	5	1	0	.	3
South Carolina	2	6	0	.	2
Virginia	6	9	30	.	5
West Virginia	0	0	0	.	0
East South Central	**5**	**12**	**0**	**.**	**6**
Alabama	0	0	0	.	0
Kentucky	6	12	0	.	7
Mississippi	9	35	0	.	20
Tennessee	0	0	0	.	0
West South Central	**2**	**3**	**0**	**.**	**2**
Arkansas	17	4	0	.	11
Louisiana	2	3	0	.	2
Oklahoma	14	3	0	.	12
Texas	5	4	0	.	4
Mountain	**0**	**0**	**0**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	2	1	11	.	1
Idaho	3	2	0	.	2
Montana	9	4	0	.	6
Nevada	0	0	0	.	0
New Mexico	3	1	0	.	2
Utah	1	1	0	.	1
Wyoming	27	10	0	.	17
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	2	8	.	1
Washington	2	6	55	.	2
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	1	3	0	.	1
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

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

Electric Utilities by Census Division and State, September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**135**	**0**	**0**	**21**
Connecticut	0	44	0	0	0	0	66
Maine	0	0	0	0	0	0	0
Massachusetts	0	60	0	205	0	0	54
New Hampshire	0	28	0	0	0	0	35
Rhode Island	0	0	0	0	0	0	0
Vermont	0	60	0	0	0	0	29
Middle Atlantic	**0**	**27**	**0**	**13**	**0**	**0**	**1**
New Jersey	0	61	0	135	0	0	0
New York	0	27	0	13	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**5**	**138**	**0**	**10**
Illinois	0	49	0	63	0	0	37
Indiana	1	4	0	8	138	0	29
Michigan	3	5	0	6	0	0	18
Ohio	3	14	0	15	0	0	33
Wisconsin	1	22	0	4	0	0	13
West North Central	**1**	**9**	**0**	**10**	**0**	**0**	**7**
Iowa	1	12	0	8	0	0	22
Kansas	2	10	0	22	0	0	0
Minnesota	4	42	0	9	0	0	23
Missouri	0	10	0	45	0	0	16
Nebraska	4	117	0	36	0	0	17
North Dakota	0	17	0	20	0	0	15
South Dakota	0	81	0	24	0	0	10
South Atlantic	**0**	**8**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	8	0	1	0	0	43
Georgia	0	20	0	3	0	0	9
Maryland	0	56	0	0	0	0	0
North Carolina	0	9	0	2	0	0	9
South Carolina	0	27	0	5	0	0	14
Virginia	11	24	0	4	0	0	15
West Virginia	0	0	0	0	0	0	34
East South Central	**3**	**12**	**0**	**3**	**0**	**0**	**5**
Alabama	0	27	0	4	0	0	6
Kentucky	0	3	0	24	0	0	12
Mississippi	0	64	0	4	0	0	0
Tennessee	13	26	0	9	0	0	7
West South Central	**0**	**19**	**0**	**3**	**0**	**0**	**7**
Arkansas	0	15	0	20	0	0	10
Louisiana	0	90	0	4	0	0	0
Oklahoma	0	11	0	6	0	0	11
Texas	0	24	0	6	0	0	16
Mountain	**1**	**6**	**0**	**1**	**0**	**0**	**3**
Arizona	0	4	0	1	0	0	3
Colorado	0	64	0	2	0	0	17
Idaho	0	0	0	16	0	0	7
Montana	0	639	0	22	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	18	0	4	0	0	64
Utah	0	2	0	4	0	0	24
Wyoming	3	2	0	36	0	0	21
Pacific Contiguous	**0**	**7**	**0**	**1**	**0**	**0**	**2**
California	0	11	0	1	0	0	5
Oregon	0	0	0	6	0	0	2
Washington	0	716	0	5	0	0	1
Pacific Noncontiguous	**96**	**1**	**0**	**13**	**0**	**0**	**17**
Alaska	96	4	0	13	0	0	17
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**138**	**0**	**1**

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

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

Electric Utilities by Census Division and State, September 2017 (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**	**31**	**10**	**0**	**0**	**23**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	54	48	0	0	98
New Hampshire	0	0	0	0	0	0	0	19
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	39	13	0	0	15
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**4**
New Jersey	0	0	0	27	27	0	0	40
New York	0	0	0	0	0	0	0	4
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**15**	**9**	**0**	**0**	**1**
Illinois	0	0	0	0	26	0	0	19
Indiana	0	0	0	24	14	0	0	2
Michigan	0	0	0	19	12	0	0	2
Ohio	0	0	0	79	61	0	0	4
Wisconsin	0	0	0	0	18	0	0	1
West North Central	**0**	**0**	**0**	**53**	**4**	**0**	**8**	**1**
Iowa	0	0	0	76	5	0	0	2
Kansas	0	0	0	0	7	0	0	2
Minnesota	0	0	0	127	9	0	0	2
Missouri	0	0	0	0	40	0	0	2
Nebraska	0	0	0	0	26	0	0	3
North Dakota	0	0	0	0	8	0	51	1
South Dakota	0	0	0	0	17	0	0	6
South Atlantic	**0**	**0**	**0**	**5**	**9**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	14
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	82	82	0	0	71
North Carolina	0	0	0	12	12	0	0	1
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	23	21	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**31**	**23**	**0**	**0**	**2**
Alabama	0	0	0	45	45	0	0	1
Kentucky	0	0	0	0	26	0	0	3
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	4
West South Central	**0**	**0**	**0**	**65**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	192	192	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	7	0	0	3
Texas	0	0	0	111	26	0	0	3
Mountain	**0**	**17**	**0**	**8**	**7**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	168	35	0	0	1
Idaho	0	0	0	0	88	0	0	7
Montana	0	0	0	0	35	0	0	6
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	16	16	0	0	1
Utah	0	17	0	0	17	0	0	1
Wyoming	0	0	0	0	12	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	100	5	0	0	2
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**20**	**0**	**0**	**5**
Alaska	0	0	0	0	52	0	0	10
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**4**	**3**	**0**	**3**	**0**

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

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

Electric Utilities by Census Division and State, Year-to-Date through September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**135**	**0**	**0**	**21**
Connecticut	0	44	0	0	0	0	66
Maine	0	0	0	0	0	0	0
Massachusetts	0	60	0	205	0	0	54
New Hampshire	0	28	0	0	0	0	35
Rhode Island	0	0	0	0	0	0	0
Vermont	0	60	0	0	0	0	29
Middle Atlantic	**0**	**27**	**0**	**13**	**0**	**0**	**1**
New Jersey	0	61	0	135	0	0	0
New York	0	27	0	13	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**5**	**138**	**0**	**10**
Illinois	0	49	0	63	0	0	37
Indiana	1	4	0	8	138	0	29
Michigan	3	5	0	6	0	0	18
Ohio	3	14	0	15	0	0	33
Wisconsin	1	22	0	4	0	0	13
West North Central	**1**	**9**	**0**	**10**	**0**	**0**	**7**
Iowa	1	12	0	8	0	0	22
Kansas	2	10	0	22	0	0	0
Minnesota	4	42	0	9	0	0	23
Missouri	0	10	0	45	0	0	16
Nebraska	4	117	0	36	0	0	17
North Dakota	0	17	0	20	0	0	15
South Dakota	0	81	0	24	0	0	10
South Atlantic	**0**	**8**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	8	0	1	0	0	43
Georgia	0	20	0	3	0	0	9
Maryland	0	56	0	0	0	0	0
North Carolina	0	9	0	2	0	0	9
South Carolina	0	27	0	5	0	0	14
Virginia	11	24	0	4	0	0	15
West Virginia	0	0	0	0	0	0	34
East South Central	**3**	**12**	**0**	**3**	**0**	**0**	**5**
Alabama	0	27	0	4	0	0	6
Kentucky	0	3	0	24	0	0	12
Mississippi	0	64	0	4	0	0	0
Tennessee	13	26	0	9	0	0	7
West South Central	**0**	**19**	**0**	**3**	**0**	**0**	**7**
Arkansas	0	15	0	20	0	0	10
Louisiana	0	90	0	4	0	0	0
Oklahoma	0	11	0	6	0	0	11
Texas	0	24	0	6	0	0	16
Mountain	**1**	**6**	**0**	**1**	**0**	**0**	**3**
Arizona	0	4	0	1	0	0	3
Colorado	0	64	0	2	0	0	17
Idaho	0	0	0	16	0	0	7
Montana	0	639	0	22	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	18	0	4	0	0	64
Utah	0	2	0	4	0	0	24
Wyoming	3	2	0	36	0	0	21
Pacific Contiguous	**0**	**7**	**0**	**1**	**0**	**0**	**2**
California	0	11	0	1	0	0	5
Oregon	0	0	0	6	0	0	2
Washington	0	716	0	5	0	0	1
Pacific Noncontiguous	**96**	**1**	**0**	**13**	**0**	**0**	**17**
Alaska	96	4	0	13	0	0	17
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**138**	**0**	**1**

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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 September 2017 (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**	**31**	**10**	**0**	**0**	**23**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	54	48	0	0	98
New Hampshire	0	0	0	0	0	0	0	19
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	39	13	0	0	15
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**4**
New Jersey	0	0	0	27	27	0	0	40
New York	0	0	0	0	0	0	0	4
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**15**	**9**	**0**	**0**	**1**
Illinois	0	0	0	0	26	0	0	19
Indiana	0	0	0	24	14	0	0	2
Michigan	0	0	0	19	12	0	0	2
Ohio	0	0	0	79	61	0	0	4
Wisconsin	0	0	0	0	18	0	0	1
West North Central	**0**	**0**	**0**	**53**	**4**	**0**	**8**	**1**
Iowa	0	0	0	76	5	0	0	2
Kansas	0	0	0	0	7	0	0	2
Minnesota	0	0	0	127	9	0	0	2
Missouri	0	0	0	0	40	0	0	2
Nebraska	0	0	0	0	26	0	0	3
North Dakota	0	0	0	0	8	0	51	1
South Dakota	0	0	0	0	17	0	0	6
South Atlantic	**0**	**0**	**0**	**5**	**9**	**0**	**0**	**0**
Delaware	0	0	0	93	93	0	0	14
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	82	82	0	0	71
North Carolina	0	0	0	12	12	0	0	1
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	23	21	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**31**	**23**	**0**	**0**	**2**
Alabama	0	0	0	45	45	0	0	1
Kentucky	0	0	0	0	26	0	0	3
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	4
West South Central	**0**	**0**	**0**	**65**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	192	192	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	7	0	0	3
Texas	0	0	0	111	26	0	0	3
Mountain	**0**	**17**	**0**	**8**	**7**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	168	35	0	0	1
Idaho	0	0	0	0	88	0	0	7
Montana	0	0	0	0	35	0	0	6
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	16	16	0	0	1
Utah	0	17	0	0	17	0	0	1
Wyoming	0	0	0	0	12	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	100	5	0	0	2
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**20**	**0**	**0**	**5**
Alaska	0	0	0	0	52	0	0	10
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**4**	**3**	**0**	**3**	**0**

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

Independent Power Producers by Census Division and State, September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**6**	**0**	**0**	**9**
Connecticut	0	39	0	5	0	0	36
Maine	0	3	0	70	0	0	12
Massachusetts	0	12	0	9	0	0	26
New Hampshire	0	695	0	0	0	0	20
Rhode Island	0	90	0	31	0	0	0
Vermont	0	0	0	0	0	0	23
Middle Atlantic	**2**	**11**	**0**	**4**	**0**	**0**	**9**
New Jersey	0	51	0	12	0	0	440
New York	0	18	0	5	0	0	10
Pennsylvania	2	13	0	3	0	0	12
East North Central	**0**	**11**	**32**	**4**	**6**	**0**	**27**
Illinois	0	16	0	16	0	0	56
Indiana	0	0	0	3	0	0	0
Michigan	0	0	0	1	0	0	63
Ohio	0	14	32	4	19	0	44
Wisconsin	0	0	0	0	0	0	60
West North Central	**0**	**18**	**0**	**41**	**0**	**0**	**39**
Iowa	0	95	0	7,143	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	18	0	16	0	0	44
Missouri	0	0	0	74	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**2**	**10**	**0**	**4**	**0**	**0**	**11**
Delaware	0	47	0	27	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	43	0	12	0	0	0
Georgia	0	188	0	8	0	0	0
Maryland	0	6	0	12	0	0	2
North Carolina	0	143	0	9	0	0	70
South Carolina	0	0	0	5	0	0	88
Virginia	0	15	0	2	0	0	54
West Virginia	5	0	0	23	0	0	30
East South Central	**0**	**80**	**0**	**2**	**0**	**0**	**190**
Alabama	0	132	0	2	0	0	0
Kentucky	0	0	0	0	0	0	190
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**28**	**0**	**1**	**5**	**0**	**17**
Arkansas	0	0	0	3	0	0	59
Louisiana	0	0	0	5	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	31	0	2	5	0	0
Mountain	**4**	**7**	**0**	**1**	**0**	**0**	**18**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	47
Idaho	0	0	0	18	0	0	23
Montana	5	9	0	7	0	0	55
Nevada	0	0	0	0	0	0	39
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**	**51**	**0**	**1**	**0**	**0**	**23**
California	0	0	0	1	0	0	29
Oregon	0	0	0	1	0	0	39
Washington	0	69	0	11	0	0	30
Pacific Noncontiguous	**3**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	33	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**2**	**18**	**1**	**4**	**0**	**6**

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

Independent Power Producers by Census Division and State, September 2017 (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**	**8**	**7**	**0**	**1**	**3**
Connecticut	0	0	0	34	14	0	0	2
Maine	0	0	0	81	11	0	0	18
Massachusetts	0	0	0	9	6	0	2	6
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	60	10	0	0	30
Vermont	0	0	0	31	33	0	0	19
Middle Atlantic	**0**	**0**	**0**	**8**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	9	5	0	0	6
New York	0	0	0	17	5	0	0	2
Pennsylvania	0	0	0	31	6	0	0	1
East North Central	**0**	**0**	**0**	**12**	**4**	**0**	**18**	**1**
Illinois	0	0	0	21	5	0	0	1
Indiana	0	0	0	17	7	0	0	3
Michigan	0	0	0	0	9	0	32	1
Ohio	0	0	0	26	6	0	0	1
Wisconsin	0	0	0	50	11	0	0	1
West North Central	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	7	0	0	4
Kansas	0	0	0	100	2	0	0	2
Minnesota	0	0	0	8	5	0	0	5
Missouri	0	0	0	31	9	0	0	40
Nebraska	0	0	0	53	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	192	12	0	0	12
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	37	28	0	0	25
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	17	5	0	1	9
Georgia	0	0	0	6	5	0	0	6
Maryland	0	0	0	15	8	0	0	3
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	24	25	0	0	6
Virginia	0	0	0	21	14	0	0	2
West Virginia	0	0	0	0	12	0	0	5
East South Central	**0**	**0**	**0**	**11**	**12**	**0**	**0**	**2**
Alabama	0	0	0	22	20	0	0	2
Kentucky	0	0	0	0	0	0	0	2
Mississippi	0	0	0	7	9	0	0	0
Tennessee	0	0	0	23	19	0	0	17
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	21	0	0	2
Louisiana	0	0	0	0	34	0	0	2
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**7**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	3	0	0	3
Idaho	0	30	0	10	8	0	0	8
Montana	0	0	0	47	13	0	0	4
Nevada	0	8	0	3	4	0	0	3
New Mexico	0	0	0	9	3	0	0	3
Utah	0	18	0	6	6	0	0	5
Wyoming	0	0	0	0	12	0	0	8
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	18	0	19	7	0	0	2
Washington	0	0	0	0	9	0	0	3
Pacific Noncontiguous	**0**	**17**	**0**	**17**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	68	0	0	30
Hawaii	0	17	0	17	11	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**6**	**0**	**0**	**9**
Connecticut	0	39	0	5	0	0	36
Maine	0	3	0	70	0	0	12
Massachusetts	0	12	0	9	0	0	26
New Hampshire	0	695	0	0	0	0	20
Rhode Island	0	90	0	31	0	0	0
Vermont	0	0	0	0	0	0	23
Middle Atlantic	**2**	**11**	**0**	**4**	**0**	**0**	**9**
New Jersey	0	51	0	12	0	0	440
New York	0	18	0	5	0	0	10
Pennsylvania	2	13	0	3	0	0	12
East North Central	**0**	**11**	**32**	**4**	**6**	**0**	**27**
Illinois	0	16	0	16	0	0	56
Indiana	0	0	0	3	0	0	0
Michigan	0	0	0	1	0	0	63
Ohio	0	14	32	4	19	0	44
Wisconsin	0	0	0	0	0	0	60
West North Central	**0**	**18**	**0**	**41**	**0**	**0**	**39**
Iowa	0	95	0	7,143	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	18	0	16	0	0	44
Missouri	0	0	0	74	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**2**	**10**	**0**	**4**	**0**	**0**	**11**
Delaware	0	47	0	27	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	43	0	12	0	0	0
Georgia	0	188	0	8	0	0	0
Maryland	0	6	0	12	0	0	2
North Carolina	0	143	0	9	0	0	70
South Carolina	0	0	0	5	0	0	88
Virginia	0	15	0	2	0	0	54
West Virginia	5	0	0	23	0	0	30
East South Central	**0**	**80**	**0**	**2**	**0**	**0**	**190**
Alabama	0	132	0	2	0	0	0
Kentucky	0	0	0	0	0	0	190
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**28**	**0**	**1**	**5**	**0**	**17**
Arkansas	0	0	0	3	0	0	59
Louisiana	0	0	0	5	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	31	0	2	5	0	0
Mountain	**4**	**7**	**0**	**1**	**0**	**0**	**18**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	47
Idaho	0	0	0	18	0	0	23
Montana	5	9	0	7	0	0	55
Nevada	0	0	0	0	0	0	39
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**	**51**	**0**	**1**	**0**	**0**	**23**
California	0	0	0	1	0	0	29
Oregon	0	0	0	1	0	0	39
Washington	0	69	0	11	0	0	30
Pacific Noncontiguous	**3**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	33	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**2**	**18**	**1**	**4**	**0**	**6**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through September 2017 (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**	**8**	**7**	**0**	**1**	**3**
Connecticut	0	0	0	34	14	0	0	2
Maine	0	0	0	81	11	0	0	18
Massachusetts	0	0	0	9	6	0	2	6
New Hampshire	0	0	0	0	22	0	0	2
Rhode Island	0	0	0	60	10	0	0	30
Vermont	0	0	0	31	33	0	0	19
Middle Atlantic	**0**	**0**	**0**	**8**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	9	5	0	0	6
New York	0	0	0	17	5	0	0	2
Pennsylvania	0	0	0	31	6	0	0	1
East North Central	**0**	**0**	**0**	**12**	**4**	**0**	**18**	**1**
Illinois	0	0	0	21	5	0	0	1
Indiana	0	0	0	17	7	0	0	3
Michigan	0	0	0	0	9	0	32	1
Ohio	0	0	0	26	6	0	0	1
Wisconsin	0	0	0	50	11	0	0	1
West North Central	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	7	0	0	4
Kansas	0	0	0	100	2	0	0	2
Minnesota	0	0	0	8	5	0	0	5
Missouri	0	0	0	31	9	0	0	40
Nebraska	0	0	0	53	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	192	12	0	0	12
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	37	28	0	0	25
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	17	5	0	1	9
Georgia	0	0	0	6	5	0	0	6
Maryland	0	0	0	15	8	0	0	3
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	24	25	0	0	6
Virginia	0	0	0	21	14	0	0	2
West Virginia	0	0	0	0	12	0	0	5
East South Central	**0**	**0**	**0**	**11**	**12**	**0**	**0**	**2**
Alabama	0	0	0	22	20	0	0	2
Kentucky	0	0	0	0	0	0	0	2
Mississippi	0	0	0	7	9	0	0	0
Tennessee	0	0	0	23	19	0	0	17
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	21	0	0	2
Louisiana	0	0	0	0	34	0	0	2
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**7**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	3	0	0	3
Idaho	0	30	0	10	8	0	0	8
Montana	0	0	0	47	13	0	0	4
Nevada	0	8	0	3	4	0	0	3
New Mexico	0	0	0	9	3	0	0	3
Utah	0	18	0	6	6	0	0	5
Wyoming	0	0	0	0	12	0	0	8
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	18	0	19	7	0	0	2
Washington	0	0	0	0	9	0	0	3
Pacific Noncontiguous	**0**	**17**	**0**	**17**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	68	0	0	30
Hawaii	0	17	0	17	11	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**27**	**0**	**13**	**0**	**0**	**0**
Connecticut	0	284	0	18	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	35	0	22	0	0	0
New Hampshire	0	9	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**	**58**	**0**	**13**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	80	0	17	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**27**	**39**	**0**	**6**	**0**	**0**	**0**
Illinois	73	346	0	25	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	5	0	5	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	20	0	0	0
West North Central	**0**	**28**	**0**	**2**	**0**	**0**	**0**
Iowa	0	0	0	2	0	0	0
Minnesota	0	35	0	5	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	1,040	0	0	0	0	0
South Atlantic	**0**	**2**	**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	43	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**	**24**	**0**	**23**	**0**	**0**	**615**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	121	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	23	0	0	615
Mountain	**0**	**0**	**0**	**8**	**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	31	0	0	0
Utah	0	0	0	4	0	0	0
Pacific Contiguous	**0**	**27**	**0**	**2**	**0**	**0**	**0**
California	0	50	0	2	0	0	0
Oregon	0	0	0	15	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**36**	**18**	**0**	**0**	**0**	**0**	**49**
Alaska	36	191	0	0	0	0	49
Hawaii	0	0	0	0	0	0	0
U.S. Total	**13**	**13**	**0**	**4**	**0**	**0**	**42**

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

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

Commercial Sector by Census Division and State, September 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**67**	**2**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	18
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	67	10	0	0	19
New Hampshire	0	0	0	0	0	0	0	1
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**	**4**	**6**
New Jersey	0	0	0	20	11	0	0	7
New York	0	0	0	92	6	0	8	10
Pennsylvania	0	0	0	91	9	0	0	4
East North Central	**0**	**0**	**0**	**149**	**6**	**0**	**0**	**5**
Illinois	0	0	0	0	245	0	0	24
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	3
Ohio	0	0	0	149	46	0	0	2
Wisconsin	0	0	0	0	18	0	0	14
West North Central	**0**	**0**	**0**	**0**	**23**	**0**	**49**	**5**
Iowa	0	0	0	0	31	0	0	6
Minnesota	0	0	0	0	42	0	49	15
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	1,040
South Atlantic	**0**	**0**	**0**	**21**	**9**	**0**	**0**	**3**
Delaware	0	0	0	190	64	0	0	64
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	117	35	0	0	24
Georgia	0	0	0	137	116	0	0	76
Maryland	0	0	0	98	70	0	0	2
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**	**110**	**110**	**0**	**0**	**26**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	110	110	0	0	26
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	121
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	21
Mountain	**0**	**0**	**0**	**25**	**22**	**0**	**0**	**8**
Arizona	0	0	0	54	54	0	0	8
Colorado	0	0	0	61	59	0	0	29
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	18
New Mexico	0	0	0	0	239	0	0	31
Utah	0	0	0	0	0	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**22**	**7**	**0**	**0**	**3**
California	0	0	0	22	7	0	0	3
Oregon	0	0	0	0	38	0	0	18
Washington	0	0	0	0	68	0	0	66
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	26
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**3**	**0**	**2**	**2**

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

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

Commercial Sector by Census Division and State, Year-to-Date through September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**27**	**0**	**13**	**0**	**0**	**0**
Connecticut	0	284	0	18	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	35	0	22	0	0	0
New Hampshire	0	9	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**	**58**	**0**	**13**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	80	0	17	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**27**	**39**	**0**	**6**	**0**	**0**	**0**
Illinois	73	346	0	25	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	5	0	5	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	20	0	0	0
West North Central	**0**	**28**	**0**	**2**	**0**	**0**	**0**
Iowa	0	0	0	2	0	0	0
Minnesota	0	35	0	5	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	1,040	0	0	0	0	0
South Atlantic	**0**	**2**	**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	43	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**	**24**	**0**	**23**	**0**	**0**	**615**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	121	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	23	0	0	615
Mountain	**0**	**0**	**0**	**8**	**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	31	0	0	0
Utah	0	0	0	4	0	0	0
Pacific Contiguous	**0**	**27**	**0**	**2**	**0**	**0**	**0**
California	0	50	0	2	0	0	0
Oregon	0	0	0	15	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**36**	**18**	**0**	**0**	**0**	**0**	**49**
Alaska	36	191	0	0	0	0	49
Hawaii	0	0	0	0	0	0	0
U.S. Total	**13**	**13**	**0**	**4**	**0**	**0**	**42**

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

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

Commercial Sector by Census Division and State, Year-to-Date through September 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**67**	**2**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	18
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	67	10	0	0	19
New Hampshire	0	0	0	0	0	0	0	1
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**	**4**	**6**
New Jersey	0	0	0	20	11	0	0	7
New York	0	0	0	92	6	0	8	10
Pennsylvania	0	0	0	91	9	0	0	4
East North Central	**0**	**0**	**0**	**149**	**6**	**0**	**0**	**5**
Illinois	0	0	0	0	245	0	0	24
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	3
Ohio	0	0	0	149	46	0	0	2
Wisconsin	0	0	0	0	18	0	0	14
West North Central	**0**	**0**	**0**	**0**	**23**	**0**	**49**	**5**
Iowa	0	0	0	0	31	0	0	6
Minnesota	0	0	0	0	42	0	49	15
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	1,040
South Atlantic	**0**	**0**	**0**	**21**	**9**	**0**	**0**	**3**
Delaware	0	0	0	190	64	0	0	64
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	117	35	0	0	24
Georgia	0	0	0	137	116	0	0	76
Maryland	0	0	0	98	70	0	0	2
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**	**110**	**110**	**0**	**0**	**26**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	110	110	0	0	26
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	121
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	21
Mountain	**0**	**0**	**0**	**25**	**22**	**0**	**0**	**8**
Arizona	0	0	0	54	54	0	0	8
Colorado	0	0	0	61	59	0	0	29
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	18
New Mexico	0	0	0	0	239	0	0	31
Utah	0	0	0	0	0	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**22**	**7**	**0**	**0**	**3**
California	0	0	0	22	7	0	0	3
Oregon	0	0	0	0	38	0	0	18
Washington	0	0	0	0	68	0	0	66
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	26
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**3**	**0**	**2**	**2**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**153**	**108**	**0**	**11**	**0**	**0**	**31**
Connecticut	0	0	0	13	0	0	0
Maine	153	108	0	28	0	0	31
Massachusetts	0	0	0	8	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**14**	**25**	**63**	**9**	**14**	**0**	**37**
New Jersey	0	0	0	9	0	0	0
New York	0	0	0	12	0	0	37
Pennsylvania	27	168	130	12	20	0	0
East North Central	**5**	**19**	**0**	**6**	**9**	**0**	**23**
Illinois	5	0	0	14	0	0	0
Indiana	0	3	0	10	10	0	0
Michigan	59	37	0	11	0	0	43
Ohio	78	0	0	17	0	0	0
Wisconsin	20	270	0	16	0	0	26
West North Central	**3**	**0**	**0**	**3**	**0**	**0**	**25**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	189	0	0	0
Minnesota	11	0	0	0	0	0	25
Missouri	0	0	0	0	0	0	0
Nebraska	5	0	0	0	0	0	0
North Dakota	47	0	0	0	0	0	0
South Atlantic	**19**	**55**	**126**	**6**	**26**	**0**	**27**
Delaware	0	0	0	15	29	0	0
Florida	33	104	0	14	0	0	0
Georgia	81	81	126	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	14	97	0	32	0	0	554
South Carolina	0	0	0	0	0	0	0
Virginia	25	816	0	7	0	0	0
West Virginia	0	0	0	0	0	0	27
East South Central	**6**	**130**	**0**	**9**	**54**	**0**	**0**
Alabama	68	167	0	17	81	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	22	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	**0**	**0**	**30**	**2**	**9**	**0**	**0**
Arkansas	0	0	0	20	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	56	3	17	0	0
Mountain	**7**	**0**	**0**	**3**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	95	0	0	25	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	16	0	0	6	0	0	0
Pacific Contiguous	**0**	**29**	**0**	**1**	**3**	**0**	**0**
California	0	5	0	1	3	0	0
Oregon	0	0	0	42	0	0	0
Washington	0	74	0	24	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**70**
Alaska	0	14	0	0	0	0	0
Hawaii	0	0	0	0	0	0	70
U.S. Total	**3**	**10**	**34**	**1**	**5**	**0**	**15**

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

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

Industrial Sector by Census Division and State, September 2017 (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**	**0**	**13**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	13	0	0	10
Massachusetts	0	0	0	0	0	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**59**	**12**	**0**	**0**	**6**
New Jersey	0	0	0	83	83	0	0	5
New York	0	0	0	0	26	0	0	8
Pennsylvania	0	0	0	82	13	0	0	9
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**4**	**3**
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	32	0	0	7
Michigan	0	0	0	0	17	0	0	9
Ohio	0	0	0	0	11	0	0	7
Wisconsin	0	0	0	0	15	0	73	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	134
Minnesota	0	0	0	0	0	0	0	4
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	5
North Dakota	0	0	0	0	0	0	0	27
South Atlantic	**0**	**0**	**0**	**0**	**4**	**0**	**1**	**3**
Delaware	0	0	0	0	68	0	0	13
Florida	0	0	0	0	11	0	1	6
Georgia	0	0	0	0	7	0	17	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	6
South Carolina	0	0	0	0	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**5**	**0**	**35**	**4**
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	29	0	0	19
Mississippi	0	0	0	0	7	0	0	8
Tennessee	0	0	0	0	9	0	35	4
West South Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**2**
Arkansas	0	0	0	0	9	0	0	8
Louisiana	0	0	0	0	8	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	17	0	6	2
Mountain	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**2**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	7	0	0	11
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	5
Pacific Contiguous	**0**	**0**	**0**	**42**	**10**	**0**	**3**	**2**
California	0	0	0	42	19	0	3	1
Oregon	0	0	0	0	21	0	0	19
Washington	0	0	0	0	13	0	0	12
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**5**
Alaska	0	0	0	0	430	0	0	6
Hawaii	0	0	0	0	0	0	0	7
U.S. Total	**0**	**0**	**0**	**32**	**3**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through September 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**153**	**108**	**0**	**11**	**0**	**0**	**31**
Connecticut	0	0	0	13	0	0	0
Maine	153	108	0	28	0	0	31
Massachusetts	0	0	0	8	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**14**	**25**	**63**	**9**	**14**	**0**	**37**
New Jersey	0	0	0	9	0	0	0
New York	0	0	0	12	0	0	37
Pennsylvania	27	168	130	12	20	0	0
East North Central	**5**	**19**	**0**	**6**	**9**	**0**	**23**
Illinois	5	0	0	14	0	0	0
Indiana	0	3	0	10	10	0	0
Michigan	59	37	0	11	0	0	43
Ohio	78	0	0	17	0	0	0
Wisconsin	20	270	0	16	0	0	26
West North Central	**3**	**0**	**0**	**3**	**0**	**0**	**25**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	189	0	0	0
Minnesota	11	0	0	0	0	0	25
Missouri	0	0	0	0	0	0	0
Nebraska	5	0	0	0	0	0	0
North Dakota	47	0	0	0	0	0	0
South Atlantic	**19**	**55**	**126**	**6**	**26**	**0**	**27**
Delaware	0	0	0	15	29	0	0
Florida	33	104	0	14	0	0	0
Georgia	81	81	126	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	14	97	0	32	0	0	554
South Carolina	0	0	0	0	0	0	0
Virginia	25	816	0	7	0	0	0
West Virginia	0	0	0	0	0	0	27
East South Central	**6**	**130**	**0**	**9**	**54**	**0**	**0**
Alabama	68	167	0	17	81	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	22	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	**0**	**0**	**30**	**2**	**9**	**0**	**0**
Arkansas	0	0	0	20	0	0	0
Louisiana	0	0	0	2	9	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	56	3	17	0	0
Mountain	**7**	**0**	**0**	**3**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	95	0	0	25	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	16	0	0	6	0	0	0
Pacific Contiguous	**0**	**29**	**0**	**1**	**3**	**0**	**0**
California	0	5	0	1	3	0	0
Oregon	0	0	0	42	0	0	0
Washington	0	74	0	24	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**70**
Alaska	0	14	0	0	0	0	0
Hawaii	0	0	0	0	0	0	70
U.S. Total	**3**	**10**	**34**	**1**	**5**	**0**	**15**

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

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

Industrial Sector by Census Division and State, Year-to-Date through September 2017 (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**	**0**	**13**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	13	0	0	10
Massachusetts	0	0	0	0	0	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**59**	**12**	**0**	**0**	**6**
New Jersey	0	0	0	83	83	0	0	5
New York	0	0	0	0	26	0	0	8
Pennsylvania	0	0	0	82	13	0	0	9
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**4**	**3**
Illinois	0	0	0	0	0	0	0	4
Indiana	0	0	0	0	32	0	0	7
Michigan	0	0	0	0	17	0	0	9
Ohio	0	0	0	0	11	0	0	7
Wisconsin	0	0	0	0	15	0	73	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	134
Minnesota	0	0	0	0	0	0	0	4
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	5
North Dakota	0	0	0	0	0	0	0	27
South Atlantic	**0**	**0**	**0**	**0**	**4**	**0**	**1**	**3**
Delaware	0	0	0	0	68	0	0	13
Florida	0	0	0	0	11	0	1	6
Georgia	0	0	0	0	7	0	17	8
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	6
South Carolina	0	0	0	0	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**5**	**0**	**35**	**4**
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	29	0	0	19
Mississippi	0	0	0	0	7	0	0	8
Tennessee	0	0	0	0	9	0	35	4
West South Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**2**
Arkansas	0	0	0	0	9	0	0	8
Louisiana	0	0	0	0	8	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	17	0	6	2
Mountain	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**2**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	7	0	0	11
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	5
Pacific Contiguous	**0**	**0**	**0**	**42**	**10**	**0**	**3**	**2**
California	0	0	0	42	19	0	3	1
Oregon	0	0	0	0	21	0	0	19
Washington	0	0	0	0	13	0	0	12
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**5**
Alaska	0	0	0	0	430	0	0	6
Hawaii	0	0	0	0	0	0	0	7
U.S. Total	**0**	**0**	**0**	**32**	**3**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, September 2017

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through September 2017

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

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, September 2017

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through September 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	0	1	2	0	0
Massachusetts	1	1	4	0	1
New Hampshire	0	1	3	0	0
Rhode Island	0	0	0	0	0
Vermont	2	2	5	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**0**	**1**	**0**	**0**
Illinois	1	1	3	0	1
Indiana	1	1	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	0
Wisconsin	1	2	4	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	1	4	0	1
Minnesota	1	2	5	0	2
Missouri	1	1	4	0	1
Nebraska	1	5	7	0	3
North Dakota	1	3	6	0	2
South Dakota	1	5	9	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	8	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	3	0	0
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	3	0	0
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	2	4	0	1
Mississippi	2	2	4	0	1
Tennessee	1	1	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	1	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	5	0	2
Idaho	1	3	2	0	1
Montana	1	4	12	0	3
Nevada	0	3	1	0	1
New Mexico	1	6	8	0	3
Utah	1	4	3	0	2
Wyoming	1	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	1	0	0
Oregon	1	2	7	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	**0**	**2**	**2**	**0**	**1**
Alaska	1	5	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, September 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	0	1	1	0	0
Massachusetts	1	1	4	0	1
New Hampshire	1	0	1	0	1
Rhode Island	0	0	0	0	0
Vermont	2	2	3	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**0**	**3**	**0**	**1**
Illinois	0	0	20	0	3
Indiana	1	1	1	0	1
Michigan	0	1	1	0	0
Ohio	1	0	1	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**1**	**0**	**0**
Iowa	1	3	2	0	1
Kansas	2	2	3	0	1
Minnesota	1	2	2	0	1
Missouri	1	1	2	0	1
Nebraska	1	2	3	0	1
North Dakota	1	1	3	0	1
South Dakota	2	3	4	0	2
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	1	1	4	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	2	0	0
Georgia	1	1	2	0	1
Maryland	0	0	1	0	0
North Carolina	1	1	2	0	1
South Carolina	2	1	1	0	1
Virginia	1	1	2	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**4**	**0**	**1**
Alabama	1	1	1	0	1
Kentucky	1	1	17	0	4
Mississippi	2	2	3	0	1
Tennessee	1	1	2	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	2	3	0	1
Texas	1	1	1	0	1
Mountain	**0**	**1**	**1**	**0**	**0**
Arizona	0	1	2	0	0
Colorado	2	1	3	0	1
Idaho	1	1	1	0	1
Montana	2	3	9	0	1
Nevada	0	2	0	0	0
New Mexico	2	2	5	0	2
Utah	2	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	3	0	1
Washington	1	2	2	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	2	5	7	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**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 September 2017

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

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, 2016

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
2016	1	01/10/2016 8:46 PM	01/11/2016 5:25 AM	8 Hours, 39 Minutes	ISO New England	NPCC	Maine: Connecticut: Massachusetts: Vermont: New Hampshire: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	59859
2016	1	01/22/2016 3:52 PM	01/24/2016 12:30 PM	44 Hours, 38 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	150000
2016	1	01/23/2016 7:49 AM	01/23/2016 9:05 AM	1 Hours, 16 Minutes	FirstEnergy Corp. Jersey Central Power & Light	RFC	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	50900
2016	2	02/05/2016 11:21 AM	02/06/2016 3:48 PM	28 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-Weather	Unknown	115057
2016	2	02/13/2016 12:44 PM	02/13/2016 4:27 PM	3 Hours, 43 Minutes	Pacific Gas & Electric Co	SERC	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-Islanding	7	4300
2016	2	02/16/2016 8:35 AM	02/16/2016 5:28 PM	8 Hours, 53 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	Virginia: Roanoke County, Montgomery County; West Virginia: Kanawha County, Cabell County; Tennessee: Sullivan County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	52640
2016	2	02/19/2016 10:00 PM	02/20/2016 11:13 PM	25 Hours, 13 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	145314
2016	2	02/24/2016 2:45 PM	02/25/2016 5:00 AM	14 Hours, 15 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	400	284610
2016	2	02/25/2016 1:44 AM	02/25/2016 2:45 PM	13 Hours, 1 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	114190
2016	2	02/26/2016 12:01 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: San Bernardino County	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	3	03/01/2016 3:00 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington: King County, Whatcom County, Kitsap County, Skagit County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	56000
2016	3	03/03/2016 11:00 AM	04/16/2016 7:47 PM	1,064 Hours, 47 Minutes	California Department of Water Resources	WECC	California: San Bernardino County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	3	03/23/2016 5:00 AM	03/25/2016 11:59 PM	66 Hours, 59 Minutes	Xcel Energy/Public Service Company of Colorado	WECC	Colorado: Denver, City and County of[12];	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	0	0
2016	4	04/02/2016 11:08 AM	04/02/2016 11:33 AM	0 Hours, 25 Minutes	California Department of Water Resources	WECC	California	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	360	0
2016	4	04/18/2016 5:05 AM	04/20/2016 7:55 AM	50 Hours, 50 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	415103
2016	4	04/27/2016 5:50 AM	04/28/2016 1:35 AM	19 Hours, 45 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	214864
2016	5	05/08/2016 9:12 AM	. .	. Hours, . 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-Islanding	Unknown	Unknown
2016	5	05/10/2016 8:45 PM	05/13/2016 3:00 AM	54 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Parker County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/19/2016 9:36 PM	05/20/2016 1:00 AM	3 Hours, 24 Minutes	Pacificorp	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	461	85179
2016	5	05/20/2016 12:00 AM	05/22/2016 5:00 AM	53 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/20/2016 1:15 AM	. .	. Hours, . Minutes	Entergy Transmission - SOC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	57184
2016	5	05/31/2016 7:30 AM	06/13/2016 7:27 AM	311 Hours, 57 Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	150	Unknown
2016	6	06/17/2016 3:40 PM	06/18/2016 8:34 AM	16 Hours, 54 Minutes	Southern Company	SERC	Georgia, Alabama, Mississippi, Florida	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	304	91260
2016	7	07/05/2016 2:45 AM	07/06/2016 3:00 AM	24 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2016	7	07/05/2016 5:30 PM	07/06/2016 4:00 PM	22 Hours, 30 Minutes	Northern States Power Co	MRO	Minnesota, Wisconsin	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	250000
2016	7	07/07/2016 4:20 AM	07/07/2016 8:00 AM	3 Hours, 40 Minutes	Kansas City Power & Light Co	SERC	Kansas: Johnson County; Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58500
2016	7	07/08/2016 6:00 PM	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	West Virginia: Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62961
2016	7	07/08/2016 7:00 PM	07/09/2016 12:00 AM	5 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160895
2016	7	07/08/2016 8:50 PM	07/09/2016 7:25 PM	22 Hours, 35 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	600	203345
2016	7	07/09/2016 5:45 PM	07/11/2016 2:00 PM	44 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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
2016	7	07/12/2016 2:10 PM	07/12/2016 8:33 PM	6 Hours, 23 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	450	218000
2016	7	07/13/2016 3:00 PM	. .	. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Public Appeal-System Operations	Unknown	Unknown
2016	7	07/14/2016 2:44 PM	07/15/2016 4:00 AM	13 Hours, 16 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	96966
2016	7	07/14/2016 4:30 PM	07/16/2016 12:00 AM	31 Hours, 30 Minutes	Entergy Services, Inc.	SPP, SERC,	Arkansas: Louisiana: Mississippi: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	170244
2016	7	07/14/2016 5:30 PM	07/16/2016 8:00 PM	50 Hours, 30 Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma: Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	7300
2016	7	07/19/2016 3:45 PM	07/19/2016 7:25 PM	3 Hours, 40 Minutes	Pacificorp	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	485	Unknown
2016	7	07/19/2016 3:45 PM	07/19/2016 7:29 PM	3 Hours, 44 Minutes	Bonneville Power Administration	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	290	Unknown
2016	7	07/21/2016 7:21 PM	07/22/2016 12:09 AM	4 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Load Shed 100+ MW, Voltage Reduction-System Operations	200	266000
2016	7	07/22/2016 11:50 PM	07/23/2016 9:10 AM	9 Hours, 20 Minutes	ISO New England	NPCC	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57058
2016	7	07/23/2016 3:15 PM	07/23/2016 7:53 PM	4 Hours, 38 Minutes	CAmbria Cogen Company	RFC	Pennsylvania: Cambria County	Voltage Reduction-System Operations	87	Unknown
2016	7	07/23/2016 7:30 PM	07/24/2016 7:30 AM	12 Hours, 0 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	101073
2016	7	07/25/2016 6:51 PM	07/26/2016 2:19 AM	7 Hours, 28 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	7	07/26/2016 6:51 PM	07/27/2016 1:45 AM	6 Hours, 54 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	25	37100
2016	7	07/27/2016 6:50 PM	07/28/2016 1:38 AM	6 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	80	106300
2016	7	07/28/2016 6:51 PM	07/29/2016 2:02 AM	7 Hours, 11 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	22	21600
2016	7	07/29/2016 7:09 PM	07/29/2016 7:57 PM	0 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	8	08/07/2016 6:39 PM	08/07/2016 8:27 PM	1 Hours, 48 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-System Operations	Unknown	Unknown
2016	8	08/10/2016 6:00 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	8	08/11/2016 4:30 PM	08/11/2016 7:15 PM	2 Hours, 45 Minutes	FirstEnergy Corp	RFC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62140
2016	8	08/13/2016 11:42 AM	08/13/2016 2:07 PM	2 Hours, 25 Minutes	Broad River Energy, LLC	SERC	South Carolina:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	506	0
2016	8	08/23/2016 5:00 PM	08/24/2016 12:05 AM	7 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72200
2016	8	08/24/2016 6:13 PM	08/24/2016 7:14 PM	1 Hours, 1 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	600	400000
2016	8	08/24/2016 7:18 PM	08/24/2016 7:47 PM	0 Hours, 29 Minutes	Peak Reliability	WECC	Washington: King County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	9232	Unknown
2016	8	08/31/2016 9:45 AM	08/31/2016 9:55 AM	0 Hours, 10 Minutes	Peak Reliability	WECC	Colorado:	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
2016	8	08/31/2016 2:52 PM	. .	. Hours, . 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-Islanding	0	0
2016	9	09/01/2016 10:00 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	100	Unknown
2016	9	09/02/2016 12:40 AM	09/04/2016 8:00 PM	67 Hours, 20 Minutes	City of Tallahassee - (FL)	FRCC	Florida: Leon County, Wakulla County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	450	75000
2016	9	09/02/2016 4:00 AM	09/02/2016 4:00 PM	12 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	225	90000
2016	9	09/02/2016 5:45 AM	09/03/2016 12:30 AM	18 Hours, 45 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57000

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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
2016	9	09/06/2016 6:12 PM	09/06/2016 9:24 PM	3 Hours, 12 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-Islanding	300	Unknown
2016	9	09/08/2016 8:30 AM	09/25/2016 12:00 AM	399 Hours, 30 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
2016	9	09/08/2016 2:49 PM	09/08/2016 3:03 PM	0 Hours, 14 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-Islanding	0	0
2016	9	09/10/2016 9:42 AM	09/10/2016 9:57 AM	0 Hours, 15 Minutes	Peak Reliability	WECC	Washington: Clark County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	135	Unknown
2016	9	09/11/2016 12:05 PM	09/11/2016 3:10 PM	3 Hours, 5 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57960
2016	9	09/12/2016 12:30 PM	09/12/2016 5:56 PM	5 Hours, 26 Minutes	Public Service Company of New Mexico	WECC	New Mexico: Bernalillo County, Sandoval County, Santa Fe County, Valencia County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	110	53753
2016	9	09/21/2016 2:30 PM	09/24/2016 2:30 AM	60 Hours, 0 Minutes	Puerto Rico Electric Power Authority		Puerto Rico:	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	2750	1475000
2016	9	09/22/2016 10:56 AM	09/22/2016 11:41 AM	0 Hours, 45 Minutes	Cedar Falls Utilities	MRO	Iowa: Black Hawk County;	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	69	19124
2016	10	10/02/2016 11:30 PM	10/05/2016 8:00 AM	56 Hours, 30 Minutes	Pacificorp	WECC	Utah:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Transmission Interruption	50	4000
2016	10	10/03/2016 3:09 PM	10/04/2016 7:00 PM	27 Hours, 51 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/05/2016 11:32 AM	10/05/2016 7:00 PM	7 Hours, 28 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 9:50 AM	10/06/2016 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 7:30 PM	10/08/2016 6:00 PM	46 Hours, 30 Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	5600	1200000
2016	10	10/07/2016 8:00 AM	10/09/2016 1:00 PM	53 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	413	165000
2016	10	10/07/2016 11:08 AM	10/07/2016 7:00 PM	7 Hours, 52 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/07/2016 4:22 PM	10/12/2016 11:00 AM	114 Hours, 38 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	122	36384
2016	10	10/07/2016 10:45 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	Unknown
2016	10	10/08/2016 1:10 AM	. .	. Hours, . 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	1050	290824
2016	10	10/08/2016 8:21 AM	10/13/2016 5:30 PM	129 Hours, 9 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2016	10	10/10/2016 1:15 PM	10/10/2016 7:00 PM	5 Hours, 45 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/28/2016 1:29 PM	10/28/2016 1:38 PM	0 Hours, 9 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-Islanding	4	482
2016	11	11/09/2016 11:59 AM	11/09/2016 6:15 PM	6 Hours, 16 Minutes	Modesto Irrigation District	WECC	California: Stanislaus County, San Joaquin County, Alameda County, Tuolumne County;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Attack	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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
2016	12	12/15/2016 6:30 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	Unknown	Unknown
2016	12	12/28/2016 4:03 AM	12/31/2016 6:00 AM	73 Hours, 57 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
2016	12	12/30/2016 2:30 AM	12/30/2016 7:00 PM	16 Hours, 30 Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	85263

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

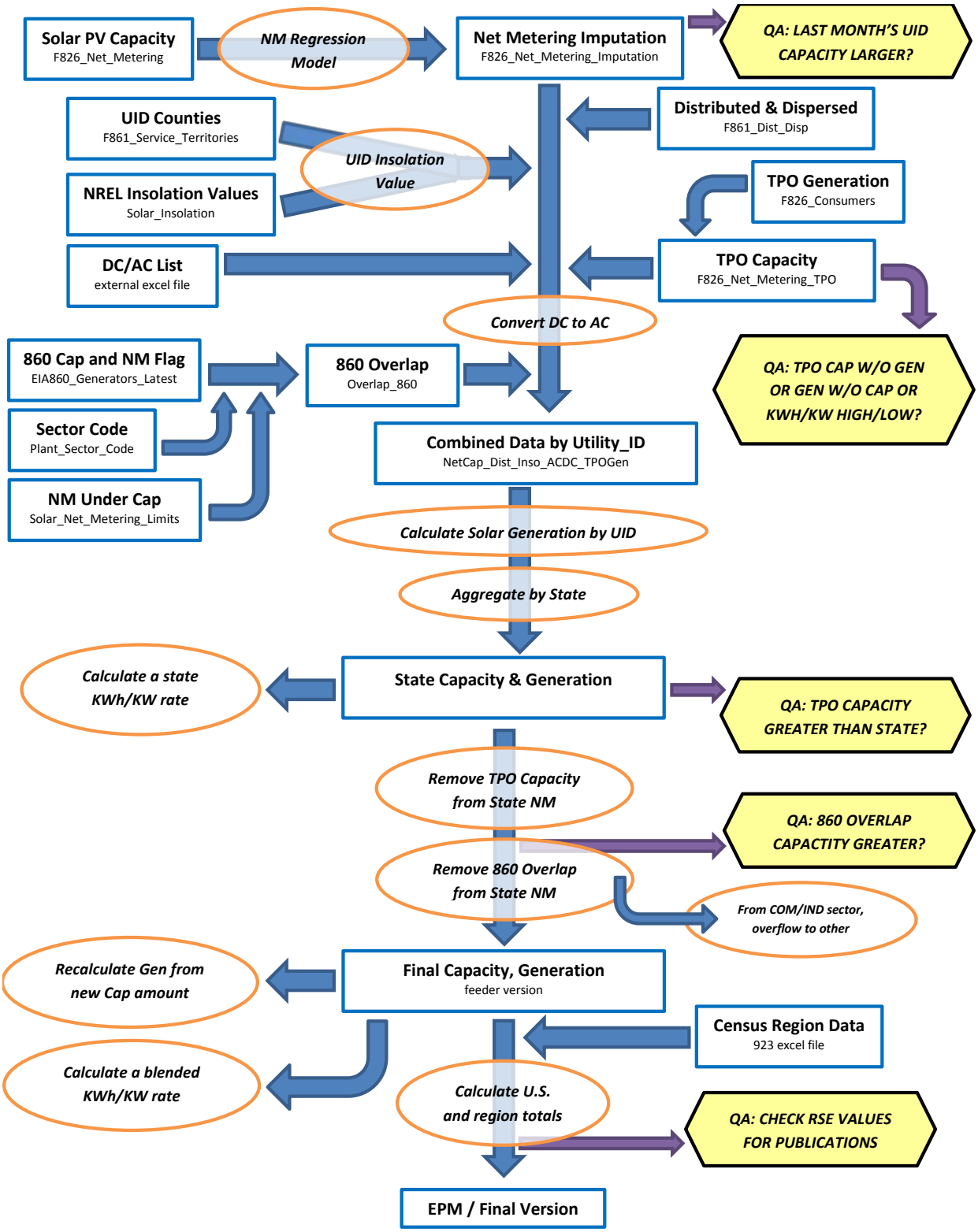
TMY3 (1991-2005) Weather Stations by MSA

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, September 2017

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	25.40	6.19	--	1.03
Connecticut	--	--	--	1.03
Maine	25.40	6.25	--	1.02
Massachusetts	--	5.81	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.71	5.87	--	1.03
New Jersey	26.04	5.74	--	1.04
New York	--	5.78	--	1.03
Pennsylvania	23.63	5.88	--	1.04
East North Central	20.05	5.80	26.75	1.04
Illinois	17.72	5.80	--	1.01
Indiana	22.29	5.76	--	1.06
Michigan	18.55	5.84	26.70	1.04
Ohio	24.49	5.81	--	1.06
Wisconsin	17.96	5.80	27.26	1.02
West North Central	16.56	5.75	27.60	1.04
Iowa	17.62	5.73	27.60	1.06
Kansas	17.10	5.73	--	1.04
Minnesota	17.78	5.80	--	1.03
Missouri	17.53	5.78	--	1.01
Nebraska	16.89	--	--	1.07
North Dakota	13.18	5.76	--	1.01
South Dakota	16.47	--	--	--
South Atlantic	23.56	5.87	27.94	1.03
Delaware	--	--	--	1.04
District of Columbia	--	--	--	--
Florida	23.64	5.84	27.94	1.02
Georgia	19.89	5.99	--	1.03
Maryland	25.07	5.80	--	1.04
North Carolina	25.23	5.94	--	1.04
South Carolina	24.82	5.88	--	1.03
Virginia	24.88	5.85	--	1.05
West Virginia	24.63	5.78	--	1.08
East South Central	21.23	5.77	--	1.03
Alabama	19.45	5.69	--	1.03
Kentucky	22.41	5.80	--	1.03
Mississippi	17.05	5.80	--	1.03
Tennessee	22.70	5.76	--	1.01
West South Central	16.09	5.86	28.31	1.03
Arkansas	17.59	5.88	--	1.03
Louisiana	17.43	--	28.31	1.03
Oklahoma	17.14	5.80	--	1.05
Texas	15.49	5.86	--	1.03
Mountain	18.71	5.74	--	1.05
Arizona	19.40	5.58	--	1.05
Colorado	18.40	--	--	1.08
Idaho	--	--	--	--
Montana	16.96	5.92	--	1.04
Nevada	17.88	5.83	--	1.04
New Mexico	19.25	5.66	--	1.05
Utah	21.19	5.79	--	1.04
Wyoming	17.68	5.81	--	1.05
Pacific Contiguous	17.66	6.00	--	1.04
California	22.90	--	--	1.03
Oregon	17.33	--	--	1.05
Washington	17.11	6.00	--	1.08
Pacific Noncontiguous	13.96	6.10	--	1.00
Alaska	13.96	--	--	1.00
Hawaii	--	6.10	--	--
U.S. Total	19.02	6.02	27.91	1.04

'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%	0.73%
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%	1.37%
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%	0.35%
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	355,540	-0.49%
Total	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,827**	**-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	31,702	2.66%
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	9.40	0.39%
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.