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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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	108,109	116,227	-7.0%	81,812	86,713	25,559	28,662	24	28	714	824	0	0
Petroleum Liquids	Utility Scale Facilities	1,000	936	6.8%	705	687	252	207	8	6	35	36	0	0
Petroleum Coke	Utility Scale Facilities	891	1,009	-11.7%	698	793	108	131	0	0	84	86	0	0
Natural Gas	Utility Scale Facilities	114,215	131,883	-13.4%	55,625	64,043	50,572	59,424	635	694	7,382	7,723	0	0
Other Gas	Utility Scale Facilities	1,153	1,085	6.4%	10	17	335	347	0	0	808	720	0	0
Nuclear	Utility Scale Facilities	67,011	67,175	-0.2%	35,022	37,000	31,988	30,175	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	30,674	22,902	33.9%	28,532	21,477	1,994	1,314	NM	NM	133	105	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	32,191	26,535	21.3%	3,677	3,257	25,897	20,650	284	263	2,332	2,366	0	0
... Wind	Utility Scale Facilities	19,429	16,318	19.1%	2,837	2,556	16,576	13,745	10	11	6	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	6,272	3,610	73.7%	388	223	5,805	3,322	72	62	8	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,399	3,414	-0.4%	259	268	894	871	6	9	2,240	2,266	0	0
... Other Biomass	Utility Scale Facilities	1,704	1,829	-6.8%	107	120	1,322	1,437	196	181	78	90	0	0
... Geothermal	Utility Scale Facilities	1,387	1,364	1.7%	87	90	1,300	1,274	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-568	-497	14.1%	-474	-409	-93	-88	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,097	1,164	-5.7%	38	28	551	609	83	82	424	444	0	0
All Energy Sources	Utility Scale Facilities	355,774	368,418	-3.4%	205,646	213,606	137,165	141,430	1,050	1,079	11,912	12,303	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,524	1,991	26.8%	0	0	0	0	811	723	254	183	1,460	1,086
Estimated Total Solar Photovoltaic	All Facilities	8,332	5,190	60.5%	387	213	5,341	2,920	882	785	262	NM	1,460	1,086
Estimated Total Solar	All Facilities	8,796	5,601	57.0%	388	223	5,805	3,322	882	785	262	NM	1,460	1,086
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	59,206	63,326	-6.5%	44,127	46,363	14,801	16,644	8	10	270	310	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,670	1,577	5.9%	1,286	1,242	330	281	14	9	40	44	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	344	382	-10.1%	283	308	42	52	0	0	19	22	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	870,727	1,006,981	-13.5%	430,843	501,185	381,584	445,296	5,712	6,087	52,588	54,412	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,028	1,175	-12.5%	76	81	105	155	34	36	813	902	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	210	197	6.5%	1	2	91	78	14	8	104	109	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	95	79	20.7%	0	0	9	8	1	0	85	71	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	76,992	77,871	-1.1%	685	909	21,032	23,951	3,934	3,613	51,342	49,398	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	60,235	64,502	-6.6%	44,203	46,444	14,906	16,799	42	46	1,083	1,212	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,880	1,774	6.0%	1,287	1,245	421	359	28	17	144	153	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	439	461	-4.8%	283	308	51	60	1	0	104	93	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	947,720	1,084,852	-12.6%	431,528	502,095	402,616	469,247	9,646	9,700	103,930	103,810	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	161,501	184,639	-12.5%	127,461	144,987	33,079	38,261	111	139	850	1,251	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	30,164	33,455	-9.8%	19,474	20,967	8,972	10,720	297	397	1,420	1,370	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,007	1,100	-8.4%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for June									
	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	June 2017	June 2016	Percentage Change	June 2017	June 2016	Percentage Change	June 2017	June 2016	Percentage Change
Residential	121,778	124,888	-2.5%	16,098	15,882	1.4%	13.22	12.72	3.9%
Commercial	119,028	119,673	-0.5%	13,078	12,677	3.2%	10.99	10.59	3.8%
Industrial	82,083	80,234	2.3%	5,926	5,639	5.1%	7.22	7.03	2.7%
Transportation	619	632	-1.9%	63	61	4.4%	10.21	9.59	6.5%
All Sectors	323,508	325,427	-0.6%	35,166	34,259	2.6%	10.87	10.53	3.2%

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 June														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	575,487	548,384	4.9%	428,505	413,079	142,692	130,284	176	217	4,115	4,803	0	0
Petroleum Liquids	Utility Scale Facilities	5,961	6,080	-1.9%	4,354	4,198	1,327	1,608	64	51	216	223	0	0
Petroleum Coke	Utility Scale Facilities	4,560	5,823	-21.7%	3,431	4,703	697	630	4	4	429	486	0	0
Natural Gas	Utility Scale Facilities	559,347	654,113	-14.5%	272,266	313,577	239,785	291,763	3,612	3,752	43,684	45,021	0	0
Other Gas	Utility Scale Facilities	6,873	6,882	-0.1%	91	50	2,005	2,023	0	0	4,777	4,809	0	0
Nuclear	Utility Scale Facilities	387,330	400,429	-3.3%	204,489	214,268	182,841	186,161	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	174,546	150,341	16.1%	161,622	138,654	12,061	10,873	NM	NM	795	780	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	200,377	172,807	16.0%	23,066	21,719	161,732	135,472	1,567	1,604	14,012	14,011	0	0
... Wind	Utility Scale Facilities	134,799	116,573	15.6%	18,670	17,964	116,015	98,492	74	75	39	41	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	26,146	16,834	55.3%	1,712	1,055	24,129	15,489	286	274	19	16	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	20,238	19,886	1.8%	1,458	1,442	5,339	5,092	36	31	13,404	13,322	0	0
... Other Biomass	Utility Scale Facilities	10,440	11,031	-5.4%	699	727	8,021	8,446	1,171	1,224	550	633	0	0
... Geothermal	Utility Scale Facilities	8,753	8,483	3.2%	526	531	8,228	7,952	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,867	-2,364	21.2%	-2,383	-1,888	-483	-477	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	6,458	6,758	-4.4%	274	171	3,234	3,524	505	539	2,445	2,524	0	0
All Energy Sources	Utility Scale Facilities	1,918,074	1,949,253	-1.6%	1,095,715	1,108,531	745,891	761,862	5,996	6,201	70,472	72,659	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	12,057	9,492	27.0%	0	0	0	0	4,089	3,588	1,199	884	6,769	5,020
Estimated Total Solar Photovoltaic	All Facilities	36,504	24,668	48.0%	1,710	1,007	22,432	13,880	4,375	3,862	1,218	899	6,769	5,020
Estimated Total Solar	All Facilities	38,204	26,326	45.1%	1,712	1,055	24,129	15,489	4,375	3,862	1,218	899	6,769	5,020
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	315,355	299,824	5.2%	232,220	223,122	81,501	74,887	65	73	1,570	1,742	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	10,047	10,268	-2.1%	7,819	7,562	1,874	2,386	109	62	246	258	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,723	2,179	-20.9%	1,390	1,786	238	268	1	1	94	125	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,214,043	4,895,619	-13.9%	2,079,934	2,398,205	1,788,671	2,150,684	33,340	33,284	312,098	313,446	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	6,683	7,629	-12.4%	556	552	785	894	218	291	5,124	5,892	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,211	1,236	-2.0%	11	15	473	483	124	65	603	672	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	479	498	-3.8%	2	1	55	50	7	6	416	441	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	479,975	476,048	0.8%	5,005	5,664	128,070	143,656	25,079	24,197	321,821	302,532	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	322,038	307,453	4.7%	232,776	223,674	82,286	75,781	282	364	6,694	7,634	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	11,259	11,504	-2.1%	7,830	7,578	2,347	2,869	233	127	849	930	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,202	2,677	-17.7%	1,392	1,787	294	317	8	7	509	566	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,694,018	5,371,667	-12.6%	2,084,939	2,403,868	1,916,741	2,294,340	58,419	57,481	633,919	615,978	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through June									
	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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	Percentage Change
Residential	644,662	653,683	-1.4%	82,514	81,171	1.7%	12.80	12.42	3.1%
Commercial	646,044	646,964	-0.1%	68,010	66,186	2.8%	10.53	10.23	2.9%
Industrial	461,899	459,989	0.4%	31,261	30,112	3.8%	6.77	6.55	3.4%
Transportation	3,738	3,725	0.4%	358	351	2.1%	9.58	9.41	1.8%
All Sectors	1,756,343	1,764,361	-0.5%	182,143	177,819	2.4%	10.37	10.08	2.9%

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)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal (1000 tons)	53,462	52,327	40.72	40.47	269	272	307,644	284,476	40.38	41.56
Petroleum Liquids (1000 barrels)	1,196	1,247	W	62.59	139	158	7,889	8,110	69.16	50.87
Petroleum Coke (1000 tons)	308	240	W	40.48	8	8	1,589	2,028	W	38.16
Natural Gas (1000 Mcf)	737,860	987,371	3.41	2.76	502	778	3,622,789	4,840,396	3.65	2.66

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal (1000 tons)	40,045	39,635	41.61	41.85	185	191	223,975	213,511	41.45	42.51
Petroleum Liquids (1000 barrels)	915	908	66.00	63.79	92	106	6,034	5,972	68.28	50.36
Petroleum Coke (1000 tons)	298	220	60.07	38.34	7	6	1,580	1,729	57.95	33.56
Natural Gas (1000 Mcf)	356,626	484,203	3.69	2.97	260	417	1,752,264	2,333,208	3.87	2.93

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal (1000 tons)	12,697	12,073	37.15	34.83	64	63	79,231	67,338	36.56	37.40
Petroleum Liquids (1000 barrels)	258	308	W	59.42	35	43	1,713	1,967	72.21	51.94
Petroleum Coke (1000 tons)	0	12	--	W	0	1	0	218	--	68.79
Natural Gas (1000 Mcf)	328,000	442,681	3.03	2.50	196	314	1,550,876	2,149,811	3.40	2.35

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal (1000 tons)	1	0	W	--	1	0	15	19	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)	595	585	W	W	3	3	3,492	4,029	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal (1000 tons)	720	619	W	62.01	19	18	4,424	3,608	W	W
Petroleum Liquids (1000 barrels)	23	31	W	58.65	12	9	142	170	69.71	56.66
Petroleum Coke (1000 tons)	9	8	W	W	1	1	9	80	W	W
Natural Gas (1000 Mcf)	52,640	59,902	W	W	43	44	316,157	353,348	W	W

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

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

Total (All Sectors)

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal	1,031,599	1,008,277	2.11	2.10	269	272	5,919,298	5,530,964	2.10	2.14
Petroleum Liquids	7,209	7,517	W	10.38	139	158	47,329	48,937	11.53	8.43
Petroleum Coke	8,657	6,894	W	1.41	8	8	44,548	56,979	W	1.36
Natural Gas	762,367	1,019,040	3.31	2.67	502	778	3,743,334	5,001,669	3.53	2.57
Fossil Fuels	1,809,833	2,041,729	W	2.40	664	952	9,754,509	10,638,548	W	2.36

Electric Utilities

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal	780,770	771,022	2.13	2.15	185	191	4,343,351	4,175,441	2.14	2.17
Petroleum Liquids	5,560	5,508	10.86	10.51	92	106	36,377	36,358	11.33	8.27
Petroleum Coke	8,386	6,325	2.14	1.33	7	6	44,277	48,778	2.07	1.19
Natural Gas	368,281	500,006	3.58	2.88	260	417	1,810,145	2,410,902	3.74	2.84
Fossil Fuels	1,162,998	1,282,860	2.63	2.47	371	536	6,234,150	6,671,478	2.65	2.44

Independent Power Producers

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal	235,649	223,442	2.00	1.88	64	63	1,482,479	1,274,681	1.95	1.98
Petroleum Liquids	1,507	1,819	W	10.07	35	43	10,069	11,541	12.28	8.84
Petroleum Coke	0	348	--	W	0	1	0	6,010	--	2.50
Natural Gas	339,115	456,773	2.93	2.42	196	314	1,603,115	2,222,366	3.29	2.28
Fossil Fuels	576,272	682,382	W	W	245	365	3,095,663	3,514,597	2.60	W

Commercial Sector

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal	17	0	W	--	1	0	336	434	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	615	599	W	W	3	3	3,601	4,125	W	W
Fossil Fuels	632	599	W	W	3	3	3,936	4,559	W	W

Industrial Sector

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
Coal	15,163	13,814	W	2.78	19	18	93,133	80,408	W	W
Petroleum Liquids	142	190	W	9.59	12	9	883	1,038	11.18	9.27
Petroleum Coke	271	222	W	W	1	1	271	2,192	W	W
Natural Gas	54,356	61,662	W	W	43	44	326,473	364,276	W	W
Fossil Fuels	69,932	75,888	W	W	45	48	420,760	447,914	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-June 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	1,240,108	12,675	11,232	1,380,295	13,000	805,327	265,829	36,754	306,861	-6,686	13,683	4,079,079	19,467	52,833	56,221
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	113,551	1,343	953	109,787	1,263	72,525	25,426	1,516	25,549	-312	1,144	352,745	1,021	2,450	2,536
February	92,719	1,236	904	98,190	1,169	65,638	24,150	2,443	26,682	-399	1,017	313,749	1,189	3,391	3,632
March	72,138	820	945	103,791	1,241	66,149	27,025	2,713	28,631	-384	1,099	304,168	1,582	4,038	4,295
April	72,022	794	1,037	99,561	1,149	62,365	25,475	2,949	26,812	-452	1,123	292,836	1,763	4,439	4,712
May	81,728	950	974	110,901	977	66,576	25,362	3,603	25,374	-321	1,211	317,337	1,945	5,160	5,548
June	116,227	936	1,009	131,883	1,085	67,175	22,902	3,610	22,925	-497	1,164	368,418	1,991	5,190	5,601
July	136,504	1,261	1,057	151,860	1,066	70,349	21,247	4,097	24,581	-784	1,212	412,450	2,066	5,691	6,163
August	135,811	1,275	1,085	155,117	1,102	71,526	19,359	3,948	20,562	-902	1,231	410,113	2,004	5,584	5,952
Sept	114,282	920	1,004	125,639	1,050	65,448	16,281	3,683	23,013	-715	1,164	351,769	1,790	5,109	5,473
October	99,338	941	611	102,625	891	60,733	17,249	3,193	26,726	-561	1,083	312,828	1,607	4,552	4,801
November	87,000	1,058	781	94,529	1,001	65,179	18,815	2,700	25,879	-607	1,092	297,427	1,307	3,823	4,007
December	118,790	1,139	871	96,412	1,007	71,662	22,538	2,299	30,128	-753	1,144	345,238	1,202	3,406	3,500
Year 2017															
January	115,549	1,175	945	91,325	1,115	73,121	27,704	2,206	27,232	-418	1,118	341,072	1,282	3,398	3,488
February	87,267	916	707	78,581	1,152	64,053	24,611	2,562	28,045	-504	1,024	288,414	1,449	3,875	4,011
March	89,648	971	744	92,638	1,206	65,093	30,198	4,474	32,399	-517	1,078	317,934	2,054	6,232	6,529
April	81,789	897	435	86,234	1,084	56,743	29,236	4,816	31,821	-437	1,061	293,679	2,268	6,774	7,084
May	93,125	1,002	839	96,354	1,163	61,309	32,122	5,816	28,815	-423	1,080	321,202	2,479	7,893	8,295
June	108,109	1,000	891	114,215	1,153	67,011	30,674	6,272	25,919	-568	1,097	355,774	2,524	8,332	8,796
Year to Date															
2015	687,162	11,185	5,414	608,225	6,558	396,405	133,716	12,152	132,711	-2,399	6,623	1,997,752	6,761	17,307	18,913
2016	548,384	6,080	5,823	654,113	6,882	400,429	150,341	16,834	155,973	-2,364	6,758	1,949,253	9,492	24,668	26,326
2017	575,487	5,961	4,560	559,347	6,873	387,330	174,546	26,146	174,231	-2,867	6,458	1,918,074	12,057	36,504	38,204
Rolling 12 Months Ending in June															
2016	1,213,621	12,266	11,286	1,379,370	13,442	801,201	265,705	29,575	293,530	-5,057	14,163	4,029,102	16,870	43,166	46,445
2017	1,267,212	12,556	9,969	1,285,529	12,991	792,229	290,034	46,067	325,119	-7,188	13,383	4,047,900	22,032	64,670	68,099

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 2015 and prior years are final. Values for 2016 and 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-June 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	226,872	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,445	19,467	52,833	56,221
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	18,531	1,430	86	3,615	1,007	628	295	1,471	25,426	52,491	1,021	2,450	2,536
February	20,204	2,202	241	3,394	892	547	274	1,372	24,150	53,275	1,189	3,391	3,632
March	21,979	2,456	257	3,381	938	588	285	1,460	27,025	58,369	1,582	4,038	4,295
April	20,745	2,676	273	2,909	937	602	280	1,340	25,475	55,236	1,763	4,439	4,712
May	18,795	3,215	388	3,173	1,002	661	267	1,476	25,362	54,340	1,945	5,160	5,548
June	16,318	3,198	412	3,414	976	620	234	1,364	22,902	49,437	1,991	5,190	5,601
July	17,595	3,625	471	3,652	1,007	642	261	1,424	21,247	49,925	2,066	5,691	6,163
August	13,561	3,581	368	3,650	1,005	645	257	1,444	19,359	43,869	2,004	5,584	5,952
Sept	16,430	3,319	363	3,369	942	600	221	1,451	16,281	42,977	1,790	5,109	5,473
October	20,380	2,945	249	3,105	916	592	244	1,489	17,249	47,168	1,607	4,552	4,801
November	19,342	2,516	184	3,257	924	600	249	1,507	18,815	47,394	1,307	3,823	4,007
December	22,991	2,204	95	3,584	1,018	652	263	1,620	22,538	54,965	1,202	3,406	3,500
Year 2017													
January	20,350	2,116	90	3,451	986	620	286	1,541	27,704	57,142	1,282	3,398	3,488
February	21,692	2,426	136	3,308	881	530	266	1,369	24,611	55,218	1,449	3,875	4,011
March	25,599	4,178	297	3,504	924	552	286	1,533	30,198	67,071	2,054	6,232	6,529
April	25,403	4,506	310	3,254	874	539	248	1,503	29,236	65,874	2,268	6,774	7,084
May	22,326	5,414	402	3,321	906	597	242	1,422	32,122	66,753	2,479	7,893	8,295
June	19,429	5,807	465	3,399	882	583	239	1,387	30,674	62,865	2,524	8,332	8,796
Year to Date													
2015	93,831	10,546	1,606	20,626	5,384	3,415	1,475	7,980	133,716	278,579	6,761	17,307	18,913
2016	116,573	15,176	1,658	19,886	5,751	3,645	1,635	8,483	150,341	323,148	9,492	24,668	26,326
2017	134,799	24,447	1,699	20,238	5,453	3,421	1,567	8,753	174,546	374,923	12,057	36,504	38,204
Rolling 12 Months Ending in June													
2016	213,460	26,296	3,278	41,189	11,658	7,442	3,361	16,420	265,705	588,810	16,870	43,166	46,445
2017	245,098	42,637	3,429	40,855	11,264	7,151	3,063	17,687	290,034	661,220	22,032	64,670	68,099

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 2015 and prior years are final. Values for 2016 and 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 1.2.A. Net Generation by Energy Source: Electric Utilities, 2007-June 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	923,299	8,671	8,881	654,476	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,081
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	84,064	926	832	52,497	NM	37,974	23,185	101	3,317	-230	27	202,696
February	69,803	779	734	47,642	4	34,281	21,931	158	3,625	-332	26	178,652
March	56,901	584	724	49,809	6	34,445	24,916	173	3,693	-291	34	170,993
April	53,477	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,944
May	62,122	654	763	52,960	NM	36,531	23,512	214	3,104	-257	27	179,641
June	86,713	687	793	64,043	17	37,000	21,477	223	3,034	-409	28	213,606
July	101,023	903	833	72,500	23	37,919	19,901	235	2,836	-678	23	235,520
August	100,319	888	856	72,932	15	37,927	18,054	227	2,429	-787	22	232,883
Sept	83,380	620	807	58,470	24	33,919	15,222	207	3,212	-626	22	195,258
October	73,089	633	418	47,523	6	30,016	16,101	179	3,472	-471	25	170,992
November	64,946	673	596	43,678	22	33,082	17,741	147	3,631	-522	24	164,018
December	87,463	755	667	45,796	23	37,268	20,976	221	4,343	-657	24	196,879
Year 2017												
January	86,163	839	743	44,026	16	38,425	25,618	158	3,039	-328	49	198,748
February	65,271	660	540	37,367	22	34,403	22,749	184	3,437	-414	46	164,264
March	66,356	761	535	45,000	20	34,693	27,998	292	4,098	-450	51	179,355
April	59,423	670	260	42,419	18	30,217	26,998	315	3,999	-366	54	164,005
May	69,481	720	654	47,829	5	31,728	29,727	375	3,491	-350	35	183,697
June	81,812	705	698	55,625	10	35,022	28,532	388	3,289	-474	38	205,646
Year to Date												
2015	504,038	6,018	4,053	283,735	128	207,475	123,186	736	17,641	-1,910	268	1,145,369
2016	413,079	4,198	4,703	313,577	50	214,268	138,654	1,055	20,664	-1,888	171	1,108,531
2017	428,505	4,354	3,431	272,266	91	204,489	161,622	1,712	21,353	-2,383	274	1,095,715
Rolling 12 Months Ending in June												
2016	907,426	8,565	8,928	647,659	NM	423,473	245,108	1,813	39,015	-4,083	460	2,278,485
2017	938,725	8,827	7,609	613,165	205	414,621	269,617	2,928	41,277	-6,125	415	2,291,265

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 2015 and prior years are final. Values for 2016 and 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-June 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	307,143	3,374	1,400	625,841	3,902	380,928	17,821	33,886	235,404	-1,057	7,126	1,615,768
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	28,568	364	42	48,897	367	34,551	2,100	1,391	19,506	-82	605	136,308
February	22,053	401	99	42,799	336	31,357	2,082	2,237	20,553	-66	543	122,395
March	14,354	205	138	45,836	367	31,704	1,956	2,491	22,334	-93	556	119,847
April	17,802	193	97	45,069	321	28,329	1,706	2,717	20,533	-84	575	117,259
May	18,845	238	124	49,738	284	30,046	1,714	3,332	19,730	-64	636	124,623
June	28,662	207	131	59,424	347	30,175	1,314	3,322	17,327	-88	609	141,430
July	34,566	300	136	70,502	322	32,430	1,238	3,789	19,049	-106	618	162,843
August	34,589	324	140	73,267	331	33,599	1,213	3,659	15,487	-115	627	163,120
Sept	30,149	259	113	58,800	344	31,529	995	3,417	17,316	-89	579	143,412
October	25,544	236	141	46,992	239	30,717	1,065	2,966	20,773	-90	565	129,150
November	21,420	338	116	42,479	338	32,097	1,003	2,512	19,672	-85	576	120,466
December	30,591	309	124	42,039	304	34,394	1,434	2,052	23,124	-96	637	134,914
Year 2017												
January	28,560	277	132	38,789	348	34,695	1,951	2,024	21,515	-90	584	128,785
February	21,282	212	102	33,664	322	29,650	1,738	2,349	22,081	-90	519	111,830
March	22,573	162	122	39,713	362	30,400	2,049	4,132	25,703	-66	527	125,678
April	21,743	186	121	36,240	285	26,526	2,092	4,449	25,356	-71	508	117,435
May	22,974	238	112	40,807	353	29,581	2,236	5,370	22,855	-73	545	124,998
June	25,559	252	108	50,572	335	31,988	1,994	5,805	20,092	-93	551	137,165
Year to Date												
2015	177,383	4,698	823	279,374	1,848	188,931	9,777	11,201	99,635	-489	3,239	776,419
2016	130,284	1,608	630	291,763	2,023	186,161	10,873	15,489	119,983	-477	3,524	761,862
2017	142,692	1,327	697	239,785	2,005	182,841	12,061	24,129	137,603	-483	3,234	745,891
Rolling 12 Months Ending in June												
2016	295,510	3,150	1,408	632,228	3,692	377,729	19,092	27,250	223,207	-974	7,124	1,589,414
2017	319,551	3,093	1,466	573,863	3,884	377,608	19,009	42,526	253,024	-1,063	6,837	1,599,797

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 2015 and prior years are final. Values for 2016 and 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.C. Net Generation by Energy Source: Commercial Sector, 2007-June 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	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
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	11	1	648	0	0	NM	23	235	0	91	1,057	409	432	432
February	47	13	1	550	0	0	NM	45	207	0	76	944	468	512	512
March	44	NM	1	595	0	0	NM	47	247	0	98	1,043	608	655	655
April	29	8	0	615	0	0	NM	44	223	0	97	1,022	661	705	705
May	26	8	0	650	0	0	NM	54	216	0	95	1,055	719	773	773
June	28	6	0	694	0	0	NM	62	201	0	82	1,079	723	785	785
July	30	9	1	763	0	0	NM	69	229	0	97	1,204	743	812	812
August	33	14	0	781	0	0	NM	59	224	0	96	1,212	718	777	777
Sept	34	7	0	675	0	0	NM	56	200	0	89	1,065	643	699	699
October	36	8	0	583	0	0	NM	45	207	0	87	969	578	623	623
November	39	NM	0	591	0	0	NM	38	197	0	84	961	467	505	505
December	45	10	1	605	0	0	NM	24	209	0	83	981	443	468	468
Year 2017															
January	40	18	1	662	0	0	NM	23	227	0	86	1,060	481	503	503
February	31	9	1	576	0	0	NM	27	204	0	79	931	526	553	553
March	35	NM	1	638	0	0	NM	47	216	0	82	1,045	703	751	751
April	22	8	0	529	0	0	NM	50	199	0	81	903	760	809	809
May	23	9	0	573	0	0	NM	67	223	0	95	1,006	809	876	876
June	24	8	0	635	0	0	NM	72	213	0	83	1,050	811	882	882
Year to Date															
2015	282	134	4	3,382	0	0	17	205	1,351	0	557	5,931	2,831	3,036	3,036
2016	217	51	4	3,752	0	0	NM	274	1,330	0	539	6,201	3,588	3,862	3,862
2017	176	64	4	3,612	0	0	NM	286	1,281	0	505	5,996	4,089	4,375	4,375
Rolling 12 Months Ending in June															
2016	444	NM	8	7,842	0	0	NM	485	2,783	0	1,152	12,865	6,446	6,931	6,931
2017	394	NM	6	7,610	0	0	NM	578	2,547	0	1,042	12,388	7,680	8,258	8,258

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 2015 and prior years are final. Values for 2016 and 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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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2007-June 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	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
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	876	43	79	7,746	893	0	136	NM	2,491	0	420	12,684	98	NM	NM
February	817	43	70	7,198	828	0	131	3	2,296	0	372	11,758	108	111	111
March	839	27	82	7,551	868	0	147	NM	2,357	0	412	12,284	150	NM	NM
April	713	25	81	7,250	819	0	131	NM	2,165	0	424	11,611	164	NM	NM
May	736	50	88	7,554	681	0	130	NM	2,324	0	453	12,018	181	NM	NM
June	824	36	86	7,723	720	0	105	NM	2,362	0	444	12,303	183	NM	NM
July	884	49	87	8,095	721	0	101	NM	2,467	0	474	12,883	190	NM	NM
August	870	49	88	8,137	756	0	87	NM	2,422	0	486	12,898	186	NM	NM
Sept	718	35	84	7,695	681	0	60	3	2,285	0	473	12,034	170	173	173
October	669	64	NM	7,526	646	0	80	3	2,274	0	406	11,718	156	158	158
November	595	40	69	7,781	641	0	68	2	2,379	0	407	11,982	123	125	125
December	691	65	79	7,973	680	0	123	NM	2,452	0	400	12,464	114	NM	NM
Year 2017															
January	786	42	69	7,848	751	0	132	NM	2,450	0	399	12,479	120	NM	NM
February	683	35	65	6,975	808	0	120	NM	2,323	0	380	11,389	139	NM	NM
March	684	36	86	7,287	825	0	136	2	2,382	0	418	11,856	210	212	212
April	601	34	54	7,046	781	0	131	NM	2,267	0	419	11,335	226	NM	NM
May	646	35	72	7,145	805	0	143	4	2,246	0	405	11,500	250	254	254
June	714	35	84	7,382	808	0	133	8	2,325	0	424	11,912	254	262	262
Year to Date															
2015	5,459	335	533	41,735	4,581	0	735	10	14,085	0	2,560	70,033	701	712	712
2016	4,803	223	486	45,021	4,809	0	780	16	13,996	0	2,524	72,659	884	899	899
2017	4,115	216	429	43,684	4,777	0	795	19	13,993	0	2,445	70,472	1,199	1,218	1,218
Rolling 12 Months Ending in June															
2016	10,241	451	942	91,641	9,629	0	1,455	NM	28,525	0	5,427	148,338	1,634	NM	NM
2017	8,542	517	NM	90,890	8,902	0	1,315	NM	28,271	0	5,090	144,450	2,138	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 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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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
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	513
February	614
March	824
April	939
May	1,044
June	1,086
July	1,133
August	1,100
Sept	977
October	874
November	717
December	644
Year 2017	
January	682
February	784
March	1,142
April	1,282
May	1,420
June	1,460
Year to Date	
2015	3,229
2016	5,020
2017	6,769
Rolling 12 Months Ending in June	
2016	8,789
2017	12,214

See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	9,021	9,158	-1.5%	252	155	8,429	8,661	95	113	244	229
Connecticut	2,803	2,669	5.0%	7	NM	2,734	2,591	22	34	40	41
Maine	945	904	4.6%	0	NM	746	718	18	19	181	168
Massachusetts	2,955	3,239	-8.8%	62	NM	2,829	3,147	44	49	20	18
New Hampshire	1,578	1,542	2.4%	100	50	1,471	1,484	5	NM	3	NM
Rhode Island	551	650	-15.3%	0	1	545	644	5	NM	0	0
Vermont	188	154	21.6%	84	76	103	78	0	NM	0	0
Middle Atlantic	34,318	35,631	-3.7%	3,097	3,171	30,663	31,888	196	184	362	387
New Jersey	5,930	6,371	-6.9%	13	0	5,798	6,248	61	63	59	59
New York	11,263	11,338	-0.7%	3,074	3,167	8,014	7,985	103	104	71	83
Pennsylvania	17,125	17,922	-4.4%	10	NM	16,850	17,656	33	17	232	245
East North Central	49,394	51,935	-4.9%	21,623	22,816	26,681	28,199	171	144	919	776
Illinois	15,291	16,370	-6.6%	431	579	14,576	15,551	40	30	244	211
Indiana	8,390	9,032	-7.1%	7,228	7,885	744	862	25	25	394	260
Michigan	9,931	10,175	-2.4%	7,221	7,261	2,529	2,727	69	63	111	124
Ohio	9,965	10,372	-3.9%	2,144	2,314	7,742	7,979	27	NM	53	65
Wisconsin	5,817	5,985	-2.8%	4,599	4,777	1,090	1,080	10	NM	118	116
West North Central	29,287	29,025	0.9%	24,399	25,039	4,475	3,568	52	60	361	359
Iowa	5,259	4,866	8.1%	4,064	3,845	994	819	18	23	183	180
Kansas	4,625	4,518	2.4%	3,300	3,578	1,319	930	0	0	6	NM
Minnesota	4,830	4,916	-1.7%	3,780	4,001	913	772	16	18	120	125
Missouri	7,376	7,545	-2.2%	7,076	7,213	280	310	16	18	3	NM
Nebraska	3,108	3,247	-4.3%	2,744	2,970	329	247	1	NM	33	29
North Dakota	2,994	3,032	-1.2%	2,482	2,701	498	318	0	NM	15	NM
South Dakota	1,093	902	21.1%	952	730	141	172	NM	NM	0	0
South Atlantic	72,786	75,817	-4.0%	60,763	63,068	10,371	11,066	98	125	1,554	1,558
Delaware	621	878	-29.3%	NM	NM	504	765	NM	NM	115	107
District of Columbia	6	NM	NM	0	0	2	0	4	NM	0	0
Florida	21,611	22,624	-4.5%	20,038	20,261	1,135	1,919	7	NM	431	436
Georgia	11,843	13,072	-9.4%	9,972	11,297	1,462	1,361	NM	NM	409	414
Maryland	2,965	3,202	-7.4%	NM	NM	2,904	3,127	40	47	19	25
North Carolina	11,862	12,163	-2.5%	10,479	10,986	1,242	990	20	23	121	164
South Carolina	8,239	8,612	-4.3%	7,854	8,212	213	247	0	NM	171	151
Virginia	8,773	8,657	1.3%	6,899	7,151	1,659	1,283	25	40	190	183
West Virginia	6,867	6,604	4.0%	5,518	5,153	1,251	1,373	0	0	98	78
East South Central	31,423	33,189	-5.3%	27,235	27,955	3,463	4,461	7	NM	718	759
Alabama	12,217	12,540	-2.6%	8,955	8,422	2,943	3,763	0	0	319	355
Kentucky	6,686	6,851	-2.4%	6,620	6,745	19	56	0	0	47	50
Mississippi	5,501	6,302	-12.7%	4,857	5,511	474	624	0	NM	170	166
Tennessee	7,021	7,495	-6.3%	6,804	7,277	28	17	7	NM	182	189
West South Central	62,122	65,408	-5.0%	20,514	23,935	35,375	34,879	91	89	6,142	6,505
Arkansas	4,951	5,985	-17.3%	3,277	4,209	1,534	1,651	1	NM	139	124
Louisiana	8,825	9,540	-7.5%	5,566	5,810	799	1,127	15	NM	2,445	2,588
Oklahoma	6,878	7,218	-4.7%	3,533	4,389	3,300	2,743	0	NM	44	84
Texas	41,468	42,666	-2.8%	8,138	9,527	29,741	29,358	75	73	3,513	3,708
Mountain	32,243	33,444	-3.6%	25,202	26,782	6,744	6,292	51	51	247	318
Arizona	10,373	10,838	-4.3%	8,382	8,518	1,975	2,306	15	14	0	0
Colorado	4,781	4,795	-0.3%	3,795	3,940	975	845	4	NM	6	NM
Idaho	1,605	1,418	13.2%	1,098	1,037	462	328	4	NM	41	52
Montana	2,000	2,188	-8.6%	1,124	1,123	874	1,062	0	0	2	NM
Nevada	3,701	3,845	-3.7%	2,634	2,956	1,029	846	12	14	27	29
New Mexico	2,956	3,193	-7.4%	2,154	2,663	793	520	10	10	0	NM
Utah	3,074	3,372	-8.9%	2,595	3,014	391	215	5	8	83	135
Wyoming	3,753	3,794	-1.1%	3,420	3,530	245	170	0	0	88	94
Pacific Contiguous	33,960	33,645	0.9%	21,793	19,936	10,596	12,076	243	251	1,329	1,382
California	18,260	19,185	-4.8%	7,708	7,835	9,163	9,900	234	241	1,155	1,209
Oregon	5,060	4,596	10.1%	4,156	3,290	849	1,253	NM	NM	49	46
Washington	10,640	9,864	7.9%	9,929	8,810	584	923	NM	NM	125	127
Pacific Noncontiguous	1,220	1,166	4.6%	768	749	369	340	46	47	36	29
Alaska	408	400	2.1%	360	365	16	15	NM	12	10	NM
Hawaii	811	766	5.9%	408	385	353	325	24	35	26	21
U.S. Total	355,774	368,418	-3.4%	205,646	213,606	137,165	141,430	1,050	1,079	11,912	12,303

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	50,221	52,534	-4.4%	1,305	1,274	46,829	49,226	571	623	1,517	1,411
Connecticut	16,409	17,310	-5.2%	42	NM	15,967	16,882	157	186	243	221
Maine	5,758	6,007	-4.2%	0	NM	4,523	4,828	101	102	1,134	1,078
Massachusetts	16,430	15,895	3.4%	280	244	15,774	15,280	252	273	124	98
New Hampshire	7,938	9,155	-13.3%	483	501	7,407	8,611	32	28	16	NM
Rhode Island	2,585	3,085	-16.2%	3	6	2,555	3,046	27	33	0	0
Vermont	1,102	1,082	1.8%	497	503	603	578	2	NM	0	0
Middle Atlantic	188,137	202,347	-7.0%	16,819	17,283	168,083	181,672	1,078	1,128	2,157	2,263
New Jersey	32,289	37,320	-13.5%	28	2	31,570	36,649	330	331	361	337
New York	61,080	64,011	-4.6%	16,723	17,243	43,350	45,652	553	618	454	499
Pennsylvania	94,768	101,016	-6.2%	68	NM	93,164	99,371	195	179	1,342	1,427
East North Central	277,547	281,632	-1.5%	117,254	119,031	153,941	156,748	923	938	5,429	4,915
Illinois	87,307	89,618	-2.6%	2,427	2,480	83,290	85,674	206	191	1,383	1,273
Indiana	46,873	49,417	-5.1%	39,886	41,007	4,631	6,692	124	129	2,232	1,589
Michigan	55,222	56,501	-2.3%	40,308	38,879	13,848	16,381	405	462	661	779
Ohio	58,440	54,996	6.3%	11,601	12,518	46,351	41,983	130	73	358	422
Wisconsin	29,705	31,100	-4.5%	23,031	24,146	5,822	6,019	57	84	795	851
West North Central	166,718	157,602	5.8%	134,717	130,251	29,694	24,932	289	350	2,018	2,069
Iowa	28,112	25,986	8.2%	20,543	18,368	6,519	6,455	97	134	954	1,028
Kansas	25,045	23,356	7.2%	16,150	16,556	8,873	6,755	0	0	23	45
Minnesota	28,430	29,169	-2.5%	21,708	23,018	5,852	5,348	95	114	774	690
Missouri	42,133	38,256	10.1%	40,550	36,617	1,471	1,520	86	94	26	25
Nebraska	17,441	18,389	-5.2%	14,649	16,418	2,602	1,773	11	9	179	188
North Dakota	19,248	17,411	10.6%	15,866	15,313	3,320	2,004	0	NM	62	93
South Dakota	6,309	5,035	25.3%	5,252	3,960	1,058	1,075	NM	NM	0	0
South Atlantic	380,540	390,474	-2.5%	318,521	326,106	52,027	54,488	585	701	9,407	9,179
Delaware	2,988	3,938	-24.1%	5	NM	2,354	3,306	3	NM	625	604
District of Columbia	39	27	43.6%	0	0	23	0	15	27	0	0
Florida	112,352	113,778	-1.3%	104,027	102,678	5,654	8,459	41	50	2,629	2,591
Georgia	61,335	63,886	-4.0%	51,660	54,803	7,139	6,646	NM	8	2,533	2,429
Maryland	15,690	17,140	-8.5%	5	10	15,312	16,737	239	260	134	133
North Carolina	62,010	62,597	-0.9%	55,058	56,732	6,057	4,839	114	132	782	894
South Carolina	45,368	47,888	-5.3%	43,076	45,450	1,279	1,526	1	NM	1,012	906
Virginia	45,115	44,579	1.2%	36,851	37,387	6,961	5,792	168	214	1,135	1,185
West Virginia	35,643	36,641	-2.7%	27,840	29,021	7,247	7,182	0	0	556	438
East South Central	168,522	176,344	-4.4%	145,853	149,671	18,331	22,169	68	75	4,271	4,429
Alabama	66,815	68,934	-3.1%	50,064	48,358	14,780	18,487	0	0	1,971	2,089
Kentucky	35,784	38,285	-6.5%	35,365	37,774	134	215	0	0	284	295
Mississippi	28,623	32,096	-10.8%	24,388	27,770	3,287	3,366	3	NM	945	955
Tennessee	37,301	37,029	0.7%	36,036	35,769	129	100	64	71	1,072	1,089
West South Central	319,439	329,401	-3.0%	97,633	111,870	184,995	178,425	471	483	36,341	38,623
Arkansas	26,360	28,495	-7.5%	19,013	20,368	6,502	7,302	3	NM	841	822
Louisiana	45,775	52,661	-13.1%	26,054	31,384	5,248	5,389	72	85	14,401	15,803
Oklahoma	34,907	36,019	-3.1%	16,820	20,023	17,722	15,549	0	NM	365	440
Texas	212,397	212,226	0.1%	35,746	40,095	155,522	150,184	395	389	20,735	21,558
Mountain	168,747	170,810	-1.2%	131,609	134,411	35,400	34,466	286	252	1,452	1,681
Arizona	47,616	50,044	-4.9%	41,626	42,603	5,911	7,371	79	69	0	0
Colorado	26,541	26,409	0.5%	20,019	20,163	6,467	6,197	19	NM	37	32
Idaho	8,894	8,696	2.3%	6,069	5,818	2,525	2,552	26	4	274	323
Montana	13,841	13,164	5.1%	6,656	5,868	7,170	7,282	0	0	15	14
Nevada	17,591	19,003	-7.4%	11,880	14,176	5,527	4,596	66	68	118	163
New Mexico	16,394	15,079	8.7%	12,003	10,995	4,335	4,022	55	53	1	NM
Utah	16,456	17,027	-3.4%	14,078	15,568	1,994	968	41	41	343	450
Wyoming	21,416	21,388	0.1%	19,279	19,220	1,471	1,477	0	0	666	690
Pacific Contiguous	190,891	180,824	5.6%	127,178	113,783	54,613	57,810	1,434	1,380	7,666	7,852
California	98,855	91,986	7.5%	45,697	37,699	45,156	46,156	1,375	1,319	6,627	6,813
Oregon	30,074	30,542	-1.5%	24,526	23,356	5,210	6,860	40	40	298	286
Washington	61,962	58,296	6.3%	56,955	52,727	4,246	4,795	19	21	741	753
Pacific Noncontiguous	7,311	7,285	0.4%	4,826	4,851	1,979	1,927	292	270	214	237
Alaska	2,527	2,710	-6.8%	2,269	2,460	86	109	114	82	58	59
Hawaii	4,784	4,574	4.6%	2,557	2,391	1,893	1,818	179	188	156	178
U.S. Total	1,918,074	1,949,253	-1.6%	1,095,715	1,108,531	745,891	761,862	5,996	6,201	70,472	72,659

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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 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	45	121	-62.7%	34	0	8	119	0	0	NM	NM
Connecticut	7	-2	-520.5%	0	0	7	-2	0	0	0	0
Maine	NM	4	NM	0	0	2	3	0	0	NM	1
Massachusetts	0	119	-100.0%	0	0	0	118	0	0	0	NM
New Hampshire	34	0	NM	34	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	4,288	4,915	-12.8%	0	0	4,252	4,855	0	0	36	60
New Jersey	100	98	2.2%	0	0	100	98	0	0	0	0
New York	66	149	-55.9%	0	0	53	122	0	0	12	27
Pennsylvania	4,122	4,668	-11.7%	0	0	4,098	4,635	0	0	24	33
East North Central	24,148	25,656	-5.9%	14,863	15,305	9,091	10,184	NM	5	189	163
Illinois	5,003	5,956	-16.0%	343	385	4,511	5,455	NM	NM	147	115
Indiana	6,199	6,597	-6.0%	5,945	6,335	253	257	2	4	0	NM
Michigan	3,863	3,792	1.9%	3,820	3,749	39	35	0	0	NM	NM
Ohio	5,816	6,138	-5.2%	1,524	1,691	4,289	4,436	0	0	NM	11
Wisconsin	3,266	3,173	2.9%	3,232	3,144	0	0	0	0	34	29
West North Central	16,547	16,777	-1.4%	16,305	16,536	0	NM	8	11	234	228
Iowa	2,834	2,790	1.6%	2,663	2,627	0	0	8	11	163	153
Kansas	2,008	2,336	-14.0%	2,008	2,336	0	0	0	0	0	0
Minnesota	1,846	1,876	-1.6%	1,814	1,835	0	0	0	NM	32	41
Missouri	5,891	5,624	4.7%	5,890	5,620	0	NM	0	0	0	NM
Nebraska	1,882	1,834	2.6%	1,849	1,808	0	0	0	0	33	26
North Dakota	1,901	2,112	-10.0%	1,895	2,106	0	0	0	0	NM	NM
South Dakota	185	204	-9.5%	185	204	0	0	0	0	0	0
South Atlantic	20,328	23,741	-14.4%	18,472	21,030	1,793	2,601	2	NM	62	107
Delaware	13	7	79.8%	0	0	13	7	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,607	4,000	-9.8%	3,591	3,894	0	89	0	0	16	NM
Georgia	3,300	4,246	-22.3%	3,284	4,225	0	0	0	0	NM	21
Maryland	744	1,317	-43.5%	0	0	739	1,312	0	0	4	6
North Carolina	3,431	4,236	-19.0%	3,409	4,192	9	NM	2	2	12	NM
South Carolina	1,722	2,125	-19.0%	1,721	2,116	0	0	0	0	1	9
Virginia	1,084	1,561	-30.6%	1,035	1,511	36	31	0	NM	12	18
West Virginia	6,427	6,248	2.9%	5,432	5,092	996	1,137	0	0	0	19
East South Central	11,712	12,748	-8.1%	11,471	12,379	178	292	0	0	63	76
Alabama	2,892	3,027	-4.4%	2,888	3,022	0	0	0	0	NM	NM
Kentucky	5,508	5,657	-2.6%	5,508	5,657	0	0	0	0	0	0
Mississippi	417	592	-29.7%	239	300	178	292	0	0	0	0
Tennessee	2,895	3,472	-16.6%	2,836	3,401	0	0	0	0	59	71
West South Central	17,925	17,824	0.6%	8,622	8,507	9,276	9,270	0	0	27	47
Arkansas	2,272	2,026	12.1%	1,886	1,703	383	320	0	0	4	3
Louisiana	1,357	1,296	4.6%	941	788	415	509	0	0	0	0
Oklahoma	1,559	1,543	1.1%	1,388	1,303	148	197	0	0	23	44
Texas	12,737	12,959	-1.7%	4,407	4,713	8,329	8,245	0	0	0	0
Mountain	12,945	13,984	-7.4%	12,035	12,838	838	1,035	0	0	72	111
Arizona	2,607	2,717	-4.0%	2,607	2,717	0	0	0	0	0	0
Colorado	2,632	2,644	-0.5%	2,631	2,637	0	NM	0	0	1	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	676	865	-21.9%	26	NM	650	846	0	0	0	NM
Nevada	193	217	-11.3%	104	124	88	94	0	0	0	0
New Mexico	1,492	2,020	-26.2%	1,492	2,020	0	0	0	0	0	0
Utah	2,105	2,226	-5.4%	2,029	2,111	37	NM	0	0	39	82
Wyoming	3,235	3,289	-1.6%	3,145	3,210	62	NM	0	0	28	23
Pacific Contiguous	28	303	-90.8%	0	102	0	175	0	0	28	26
California	27	25	8.9%	0	0	0	0	0	0	27	25
Oregon	0	102	-100.0%	0	102	0	0	0	0	0	0
Washington	1	177	-99.4%	0	0	0	175	0	0	1	2
Pacific Noncontiguous	143	156	-8.6%	NM	17	125	129	NM	8	0	NM
Alaska	NM	36	NM	NM	17	12	11	NM	8	0	0
Hawaii	113	121	-6.5%	0	0	113	118	0	0	0	NM
U.S. Total	108,109	116,227	-7.0%	81,812	86,713	25,559	28,662	24	28	714	824

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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 1.4.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	1,413	1,301	8.6%	140	152	1,252	1,136	0	0	NM	13
Connecticut	85	49	74.2%	0	0	85	49	0	0	0	0
Maine	NM	34	NM	0	0	30	30	0	0	NM	4
Massachusetts	1,136	1,066	6.6%	0	0	1,136	1,057	0	0	0	NM
New Hampshire	140	152	-7.9%	140	152	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	24,405	26,287	-7.2%	0	0	24,119	25,902	0	0	287	385
New Jersey	584	615	-5.1%	0	0	584	615	0	0	0	0
New York	529	742	-28.7%	0	0	387	572	0	0	142	170
Pennsylvania	23,292	24,930	-6.6%	0	0	23,148	24,714	0	0	144	216
East North Central	135,451	126,628	7.0%	81,009	76,959	53,256	48,485	NM	52	1,152	1,132
Illinois	27,721	27,125	2.2%	2,073	1,718	24,758	24,655	NM	19	865	732
Indiana	34,027	34,486	-1.3%	32,899	32,464	1,118	2,003	9	18	0	NM
Michigan	21,703	19,527	11.1%	21,436	19,243	233	212	0	15	NM	57
Ohio	35,410	30,826	14.9%	8,240	9,108	27,147	21,614	0	0	NM	105
Wisconsin	16,591	14,664	13.1%	16,361	14,426	0	0	0	0	230	238
West North Central	88,374	83,600	5.7%	87,033	82,151	1	10	60	78	1,281	1,361
Iowa	12,283	10,714	14.7%	11,454	9,795	0	0	43	59	786	860
Kansas	8,913	9,967	-10.6%	8,913	9,967	0	0	0	0	0	0
Minnesota	10,760	10,564	1.9%	10,478	10,292	0	0	1	NM	281	271
Missouri	33,321	29,523	12.9%	33,305	29,484	1	10	15	18	0	NM
Nebraska	9,745	9,710	0.4%	9,565	9,533	0	0	0	0	179	178
North Dakota	12,353	12,065	2.4%	12,318	12,024	0	0	0	0	NM	42
South Dakota	999	1,057	-5.5%	999	1,057	0	0	0	0	0	0
South Atlantic	102,178	107,175	-4.7%	92,173	94,164	9,552	12,357	30	33	424	620
Delaware	87	220	-60.4%	0	0	87	220	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19,263	16,320	18.0%	19,175	15,958	0	275	0	0	88	87
Georgia	15,583	16,653	-6.4%	15,483	16,545	0	0	0	0	100	108
Maryland	3,215	5,871	-45.2%	0	0	3,180	5,834	0	0	35	37
North Carolina	15,899	15,129	5.1%	15,724	14,938	59	NM	21	26	95	85
South Carolina	9,213	10,323	-10.8%	9,202	10,255	0	0	0	0	11	68
Virginia	5,580	8,222	-32.1%	5,266	7,880	211	193	8	NM	95	141
West Virginia	33,339	34,437	-3.2%	27,323	28,590	6,015	5,754	0	0	0	94
East South Central	60,312	62,429	-3.4%	58,631	60,586	1,296	1,319	0	0	385	523
Alabama	15,145	14,592	3.8%	15,117	14,548	0	0	0	0	28	44
Kentucky	30,180	31,589	-4.5%	30,180	31,589	0	0	0	0	0	0
Mississippi	2,348	2,252	4.3%	1,052	933	1,296	1,319	0	0	0	0
Tennessee	12,639	13,996	-9.7%	12,283	13,516	0	0	0	0	357	479
West South Central	87,134	68,508	27.2%	41,959	35,215	44,999	33,072	0	0	176	221
Arkansas	11,603	8,861	30.9%	10,544	6,934	1,035	1,900	0	0	23	27
Louisiana	6,121	5,330	14.8%	3,569	3,755	2,552	1,575	0	0	0	0
Oklahoma	7,374	6,914	6.6%	6,531	5,941	690	779	0	0	153	194
Texas	62,036	47,402	30.9%	21,315	18,584	40,721	28,818	0	0	0	0
Mountain	73,833	70,273	5.1%	66,881	63,277	6,715	6,637	0	0	237	359
Arizona	14,121	12,782	10.5%	14,121	12,782	0	0	0	0	0	0
Colorado	14,287	13,821	3.4%	14,282	13,790	0	NM	0	0	5	NM
Idaho	NM	33	NM	0	0	0	0	0	0	NM	33
Montana	5,843	5,855	-0.2%	142	NM	5,699	5,762	0	0	2	NM
Nevada	816	753	8.3%	345	374	471	379	0	0	0	0
New Mexico	9,194	7,912	16.2%	9,194	7,912	0	0	0	0	0	0
Utah	11,388	11,173	1.9%	11,140	10,856	196	159	0	0	51	158
Wyoming	18,157	17,945	1.2%	17,657	17,474	349	309	0	0	150	162
Pacific Contiguous	1,516	1,134	33.6%	554	410	810	547	0	0	152	177
California	139	162	-14.1%	0	0	0	0	0	0	139	162
Oregon	554	410	35.0%	554	410	0	0	0	0	0	0
Washington	823	562	46.3%	0	0	810	547	0	0	13	15
Pacific Noncontiguous	871	1,049	-16.9%	NM	165	693	819	53	53	0	NM
Alaska	236	298	-20.8%	NM	165	58	80	53	53	0	0
Hawaii	635	751	-15.4%	0	0	635	739	0	0	0	NM
U.S. Total	575,487	548,384	4.9%	428,505	413,079	142,692	130,284	176	217	4,115	4,803

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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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	24	21	15.8%	4	4	17	13	2	NM	NM	NM
Connecticut	10	3	214.0%	0	1	9	2	NM	NM	0	NM
Maine	2	7	-69.3%	0	NM	NM	6	0	NM	NM	NM
Massachusetts	10	8	29.1%	2	1	7	6	NM	NM	0	NM
New Hampshire	2	2	1.6%	2	2	NM	NM	0	NM	0	NM
Rhode Island	NM	NM	NM	0	1	NM	NM	0	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	59	37	56.9%	13	7	40	26	NM	2	3	2
New Jersey	6	3	123.2%	NM	NM	6	2	0	NM	0	NM
New York	33	15	116.0%	13	7	16	5	NM	2	2	1
Pennsylvania	20	19	1.2%	0	NM	19	18	0	NM	1	NM
East North Central	46	45	3.5%	31	25	14	17	0	NM	1	2
Illinois	3	4	-30.5%	0	0	3	4	0	NM	0	0
Indiana	13	8	52.4%	12	8	0	0	0	NM	1	1
Michigan	9	12	-19.5%	9	11	0	0	0	NM	NM	1
Ohio	18	19	-4.5%	7	5	12	14	0	NM	0	NM
Wisconsin	NM	1	NM	NM	1	0	0	0	NM	NM	NM
West North Central	21	23	-10.3%	20	22	0	NM	0	NM	0	NM
Iowa	6	5	14.1%	6	5	0	NM	0	NM	0	NM
Kansas	2	3	-9.1%	2	3	0	0	0	0	0	0
Minnesota	5	3	42.9%	5	3	NM	NM	0	NM	0	NM
Missouri	3	7	-63.2%	3	7	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	3	5	-31.3%	3	5	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	169	176	-4.1%	141	147	18	21	3	NM	7	7
Delaware	NM	NM	NM	0	NM	NM	NM	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	44	70	-36.5%	43	68	0	NM	0	0	NM	NM
Georgia	9	8	22.0%	6	4	NM	NM	0	NM	NM	3
Maryland	7	12	-37.5%	NM	1	7	11	0	NM	0	NM
North Carolina	18	22	-18.8%	15	19	2	3	NM	NM	NM	NM
South Carolina	8	11	-29.0%	7	10	0	NM	0	NM	1	1
Virginia	70	44	59.6%	60	36	6	6	3	NM	NM	NM
West Virginia	11	9	12.6%	11	9	0	0	0	0	0	0
East South Central	24	27	-9.9%	22	25	NM	NM	0	NM	NM	NM
Alabama	NM	4	NM	1	3	NM	NM	0	0	NM	NM
Kentucky	7	8	-8.3%	7	8	0	0	0	0	0	0
Mississippi	1	1	-20.7%	1	1	0	0	0	0	0	0
Tennessee	13	13	-4.2%	13	13	0	NM	0	NM	0	NM
West South Central	18	18	-3.2%	13	13	4	5	0	NM	NM	NM
Arkansas	6	8	-24.0%	3	5	3	2	0	0	NM	NM
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	6	3	70.2%	6	3	0	0	0	NM	0	NM
Texas	5	6	-16.7%	3	3	2	3	0	NM	0	NM
Mountain	19	19	3.6%	17	16	2	3	0	NM	0	NM
Arizona	6	3	102.5%	6	3	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	2	2	-31.1%	NM	NM	2	2	0	0	0	0
Nevada	2	3	-20.1%	2	2	0	0	0	0	0	0
New Mexico	3	2	27.1%	3	2	0	0	0	0	0	NM
Utah	2	3	-17.3%	2	2	0	NM	0	0	0	NM
Wyoming	4	5	-24.6%	4	5	0	0	0	0	0	NM
Pacific Contiguous	NM	19	NM	3	4	1	3	0	NM	NM	12
California	3	14	-76.4%	3	3	1	NM	0	NM	0	11
Oregon	NM	1	NM	NM	1	0	0	0	NM	0	0
Washington	NM	4	NM	NM	NM	NM	3	0	NM	NM	NM
Pacific Noncontiguous	615	551	11.8%	440	424	156	117	0	NM	20	9
Alaska	58	53	10.2%	55	49	0	0	NM	NM	3	3
Hawaii	558	498	12.0%	385	375	156	117	0	0	16	6
U.S. Total	1,000	936	6.8%	705	687	252	207	8	6	35	36

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	180	225	-20.0%	24	27	122	163	24	24	9	11
Connecticut	36	31	16.2%	3	4	31	22	NM	NM	1	NM
Maine	23	91	-75.2%	0	NM	14	82	1	NM	8	9
Massachusetts	94	76	23.7%	6	11	74	53	12	12	1	NM
New Hampshire	18	11	68.8%	11	6	NM	NM	7	NM	0	NM
Rhode Island	NM	16	NM	3	6	NM	6	2	NM	0	0
Vermont	2	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	339	552	-38.6%	80	159	216	350	19	16	24	28
New Jersey	37	59	-37.2%	NM	NM	37	57	0	NM	0	NM
New York	192	359	-46.4%	80	157	73	166	17	14	23	21
Pennsylvania	110	134	-18.4%	0	NM	106	127	2	NM	NM	6
East North Central	236	285	-17.2%	146	173	80	100	1	2	8	10
Illinois	26	39	-34.6%	2	3	24	36	0	1	0	0
Indiana	61	63	-3.0%	56	57	0	NM	0	NM	5	6
Michigan	43	67	-35.8%	40	65	0	0	1	1	NM	1
Ohio	90	103	-12.5%	32	38	57	63	0	NM	1	2
Wisconsin	16	13	25.4%	16	11	0	2	0	NM	NM	NM
West North Central	153	111	37.2%	150	108	1	NM	1	NM	1	NM
Iowa	44	30	43.5%	43	30	0	0	0	NM	0	NM
Kansas	28	12	131.2%	28	12	0	0	0	0	0	0
Minnesota	16	11	41.7%	14	8	1	NM	1	NM	1	NM
Missouri	27	38	-28.7%	27	38	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	23	16	44.4%	23	16	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,011	1,086	-6.9%	823	747	144	292	13	4	31	43
Delaware	NM	42	NM	0	NM	NM	41	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	297	206	43.8%	290	195	NM	NM	0	0	NM	9
Georgia	60	81	-25.9%	34	39	NM	20	1	2	14	19
Maryland	46	111	-58.2%	0	5	44	103	0	NM	1	NM
North Carolina	191	171	11.4%	162	127	24	41	0	NM	NM	NM
South Carolina	68	76	-9.9%	63	66	1	NM	0	NM	5	9
Virginia	273	340	-19.6%	208	253	51	84	12	NM	NM	2
West Virginia	65	59	8.6%	64	59	0	0	0	0	0	0
East South Central	129	145	-11.1%	118	131	2	5	0	NM	9	9
Alabama	22	29	-25.4%	13	17	2	5	0	0	NM	8
Kentucky	52	52	0.1%	52	52	0	0	0	0	0	0
Mississippi	5	8	-37.9%	4	8	0	0	0	0	1	1
Tennessee	50	55	-9.9%	49	54	0	NM	0	NM	1	NM
West South Central	84	87	-3.5%	45	56	37	27	0	NM	2	3
Arkansas	28	23	18.8%	9	16	18	6	0	0	NM	2
Louisiana	NM	10	NM	NM	8	0	2	0	0	0	0
Oklahoma	11	10	8.9%	10	9	0	0	0	NM	0	1
Texas	38	44	-14.4%	17	23	20	20	0	NM	0	NM
Mountain	119	119	0.1%	108	107	11	11	0	NM	0	NM
Arizona	30	30	-1.4%	30	30	0	0	0	NM	0	0
Colorado	4	4	-0.2%	4	4	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	8	9	-11.7%	NM	NM	8	9	0	0	0	0
Nevada	4	6	-35.4%	2	5	2	1	0	0	0	0
New Mexico	23	29	-22.1%	23	29	0	0	0	0	0	NM
Utah	23	15	56.2%	22	14	1	NM	0	0	0	NM
Wyoming	27	25	7.4%	27	25	0	0	0	0	0	NM
Pacific Contiguous	39	57	-32.4%	21	18	6	7	0	NM	NM	32
California	25	46	-46.4%	16	16	2	3	0	NM	6	28
Oregon	NM	1	NM	NM	1	0	0	0	NM	0	0
Washington	NM	10	NM	NM	NM	4	4	0	NM	NM	4
Pacific Noncontiguous	3,673	3,413	7.6%	2,840	2,673	708	651	5	5	121	84
Alaska	444	359	23.7%	420	336	0	0	3	3	21	19
Hawaii	3,229	3,054	5.7%	2,420	2,336	708	651	1	2	100	65
U.S. Total	5,961	6,080	-1.9%	4,354	4,198	1,327	1,608	64	51	216	223

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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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	19	25	-22.3%	0	0	0	0	0	0	19	25
New Jersey	5	NM	NM	0	0	0	0	0	0	5	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	18	NM	0	0	0	0	0	0	NM	18
East North Central	187	183	2.1%	96	69	73	98	0	0	17	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	103	76	35.9%	87	62	0	0	0	0	17	14
Ohio	73	99	-25.7%	0	0	73	98	0	0	0	NM
Wisconsin	10	8	23.0%	10	7	0	0	0	0	0	1
West North Central	7	NM	NM	0	0	0	0	0	0	7	NM
Iowa	7	NM	NM	0	0	0	0	0	0	7	NM
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	147	214	-31.4%	130	203	0	0	0	0	17	11
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	130	203	-36.0%	130	203	0	0	0	0	0	0
Georgia	17	11	54.8%	0	0	0	0	0	0	17	11
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	81	111	-26.9%	81	111	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	81	111	-26.9%	81	111	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	415	438	-5.3%	391	410	0	0	0	0	24	29
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	406	429	-5.2%	391	410	0	0	0	0	16	19
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	10	-10.2%	0	0	0	0	0	0	9	10
Mountain	35	33	6.2%	0	0	35	33	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	35	33	6.2%	0	0	35	33	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	891	1,009	-11.7%	698	793	108	131	0	0	84	86

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	112	131	-14.4%	0	0	0	0	0	0	112	131
New Jersey	36	39	-6.4%	0	0	0	0	0	0	36	39
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	76	92	-17.8%	0	0	0	0	0	0	76	92
East North Central	1,000	1,330	-24.8%	451	788	487	428	0	0	61	114
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	485	347	39.7%	424	268	0	3	0	0	61	77
Ohio	487	433	12.6%	0	0	487	425	0	0	0	NM
Wisconsin	27	53	-48.5%	27	23	0	0	0	0	0	30
West North Central	26	34	-22.6%	0	0	0	0	4	4	23	NM
Iowa	26	34	-22.6%	0	0	0	0	4	4	23	NM
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	465	1,195	-61.1%	390	1,146	0	0	0	0	NM	50
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	390	1,146	-65.9%	390	1,146	0	0	0	0	0	0
Georgia	NM	50	NM	0	0	0	0	0	0	NM	50
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	396	559	-29.1%	396	559	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	396	559	-29.1%	396	559	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	2,351	2,371	-0.8%	2,193	2,210	0	0	0	0	158	160
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,301	2,308	-0.3%	2,193	2,210	0	0	0	0	108	97
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	50	63	-20.7%	0	0	0	0	0	0	50	63
Mountain	209	202	3.5%	0	0	209	202	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	209	202	3.5%	0	0	209	202	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,560	5,823	-21.7%	3,431	4,703	697	630	4	4	429	486

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	4,264	5,071	-15.9%	NM	9	4,057	4,866	68	87	98	108
Connecticut	1,137	1,367	-16.9%	4	0	1,070	1,292	22	34	40	41
Maine	170	299	-43.3%	0	0	132	248	3	NM	36	49
Massachusetts	2,101	2,380	-11.7%	NM	NM	2,011	2,313	38	44	19	NM
New Hampshire	341	396	-14.1%	4	2	333	390	1	NM	3	NM
Rhode Island	516	628	-17.8%	0	0	511	623	5	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	12,146	15,607	-22.2%	979	1,264	10,919	14,086	84	96	163	161
New Jersey	2,599	4,037	-35.6%	12	NM	2,541	3,980	16	19	29	30
New York	4,517	5,355	-15.7%	965	1,255	3,461	4,008	58	65	33	27
Pennsylvania	5,030	6,214	-19.1%	1	NM	4,917	6,098	10	NM	101	103
East North Central	8,184	9,984	-18.0%	3,547	4,535	4,270	5,149	133	125	235	175
Illinois	1,220	1,569	-22.3%	NM	187	1,033	1,305	37	28	69	49
Indiana	1,426	1,829	-22.0%	1,200	1,471	103	296	19	18	105	44
Michigan	2,164	2,691	-19.6%	680	938	1,408	1,648	45	56	31	49
Ohio	2,225	2,373	-6.2%	587	586	1,602	1,768	26	NM	10	NM
Wisconsin	1,149	1,523	-24.5%	999	1,354	124	131	6	NM	19	27
West North Central	1,793	2,652	-32.4%	1,524	2,183	212	385	27	32	30	52
Iowa	295	322	-8.4%	276	296	NM	NM	8	NM	10	NM
Kansas	273	328	-16.8%	267	319	0	0	0	0	6	NM
Minnesota	622	849	-26.8%	510	667	93	150	8	NM	10	20
Missouri	358	815	-56.1%	226	567	119	234	10	11	3	NM
Nebraska	NM	151	NM	NM	148	0	0	0	NM	0	3
North Dakota	NM	83	NM	NM	81	0	0	0	0	1	NM
South Dakota	NM	105	NM	NM	105	0	0	0	0	0	0
South Atlantic	30,048	30,696	-2.1%	24,361	24,551	5,277	5,767	45	57	365	321
Delaware	558	828	-32.7%	1	NM	477	746	0	0	80	77
District of Columbia	4	NM	NM	0	0	0	0	4	NM	0	0
Florida	14,470	15,058	-3.9%	13,559	13,441	800	1,493	1	NM	110	119
Georgia	4,817	5,358	-10.1%	3,565	4,085	1,192	1,237	0	0	59	37
Maryland	624	429	45.4%	0	0	578	376	38	45	8	NM
North Carolina	3,309	3,272	1.1%	2,836	2,793	462	463	1	1	11	16
South Carolina	1,396	1,514	-7.8%	1,220	1,297	165	207	0	NM	10	8
Virginia	4,735	4,094	15.7%	3,170	2,922	1,520	1,130	1	NM	44	42
West Virginia	135	137	-1.6%	11	8	81	115	0	0	43	15
East South Central	10,054	12,197	-17.6%	6,659	7,882	3,210	4,126	6	NM	179	175
Alabama	4,521	5,338	-15.3%	1,542	1,513	2,900	3,740	0	0	78	85
Kentucky	642	815	-21.2%	604	739	17	55	0	0	21	21
Mississippi	3,970	4,869	-18.5%	3,644	4,505	292	331	0	NM	34	32
Tennessee	922	1,175	-21.5%	869	1,125	0	0	6	NM	46	37
West South Central	30,302	34,092	-11.1%	8,807	11,804	16,112	16,561	83	84	5,300	5,643
Arkansas	1,594	2,243	-28.9%	446	903	1,128	1,317	0	NM	19	23
Louisiana	5,247	6,149	-14.7%	2,967	3,447	281	527	15	NM	1,985	2,160
Oklahoma	3,178	4,025	-21.0%	1,785	2,768	1,379	1,242	0	NM	14	NM
Texas	20,283	21,674	-6.4%	3,609	4,687	13,324	13,475	68	67	3,282	3,445
Mountain	9,153	10,512	-12.9%	6,776	7,744	2,241	2,617	32	34	103	117
Arizona	3,656	4,155	-12.0%	2,234	2,236	1,409	1,908	13	11	0	0
Colorado	1,158	1,363	-15.0%	966	1,144	190	217	0	0	2	NM
Idaho	228	256	-11.1%	137	246	NM	NM	3	0	NM	NM
Montana	NM	65	NM	NM	57	NM	NM	0	0	0	0
Nevada	2,551	2,855	-10.6%	2,334	2,632	187	189	3	NM	27	29
New Mexico	964	874	10.3%	607	601	347	263	10	10	0	0
Utah	506	882	-42.6%	447	808	20	29	4	NM	34	38
Wyoming	55	62	-11.4%	NM	NM	0	NM	0	0	37	44
Pacific Contiguous	8,168	10,882	-24.9%	2,834	3,885	4,274	5,866	156	164	904	966
California	7,192	8,962	-19.7%	2,256	2,818	3,891	5,031	152	157	893	955
Oregon	474	1,129	-58.0%	295	573	170	545	NM	NM	NM	6
Washington	502	791	-36.5%	283	494	213	290	1	NM	NM	5
Pacific Noncontiguous	103	190	-45.9%	NM	185	0	0	0	0	6	NM
Alaska	103	190	-45.9%	NM	185	0	0	0	0	6	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	114,215	131,883	-13.4%	55,625	64,043	50,572	59,424	635	694	7,382	7,723

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	23,205	25,531	-9.1%	155	77	22,069	24,422	405	469	576	564
Connecticut	7,098	8,825	-19.6%	22	1	6,678	8,422	156	183	242	219
Maine	879	1,687	-47.9%	0	0	666	1,429	14	NM	199	246
Massachusetts	11,282	10,158	11.1%	NM	67	10,844	9,768	207	239	119	84
New Hampshire	1,560	1,914	-18.5%	20	8	1,518	1,881	6	NM	16	NM
Rhode Island	2,384	2,947	-19.1%	0	0	2,363	2,922	21	NM	0	0
Vermont	1	NM	NM	1	0	0	0	0	NM	0	0
Middle Atlantic	62,010	75,589	-18.0%	4,661	5,466	56,001	68,657	475	555	873	911
New Jersey	13,477	19,799	-31.9%	50	NM	13,162	19,498	91	100	174	163
New York	22,865	25,752	-11.2%	4,608	5,426	17,795	19,769	317	390	145	167
Pennsylvania	25,669	30,038	-14.5%	3	NM	25,045	29,390	67	65	554	581
East North Central	42,758	54,761	-21.9%	17,756	24,020	22,897	29,020	699	706	1,406	1,015
Illinois	5,656	7,651	-26.1%	306	711	4,867	6,512	178	167	305	262
Indiana	8,176	9,641	-15.2%	6,512	7,607	960	1,687	94	92	610	256
Michigan	11,468	14,762	-22.3%	3,236	4,659	7,718	9,497	274	319	240	288
Ohio	12,180	14,066	-13.4%	3,116	3,208	8,860	10,766	122	65	83	27
Wisconsin	5,278	8,642	-38.9%	4,586	7,835	493	560	30	64	169	183
West North Central	8,066	11,215	-28.1%	6,798	9,180	907	1,591	126	173	234	272
Iowa	1,251	1,551	-19.3%	1,093	1,396	NM	NM	36	51	122	104
Kansas	1,004	845	18.8%	985	808	0	0	0	0	19	38
Minnesota	3,029	4,782	-36.7%	2,527	3,896	387	725	50	68	66	94
Missouri	1,619	2,851	-43.2%	1,034	1,920	520	866	40	54	24	NM
Nebraska	488	287	70.4%	488	275	0	0	1	NM	0	11
North Dakota	247	407	-39.3%	245	393	0	0	0	0	2	NM
South Dakota	427	493	-13.4%	427	493	0	0	0	0	0	0
South Atlantic	151,839	154,233	-1.6%	125,479	126,097	23,925	25,982	266	305	2,170	1,849
Delaware	2,640	3,481	-24.2%	2	NM	2,202	2,992	0	0	436	469
District of Columbia	15	27	-42.9%	0	0	0	0	15	27	0	0
Florida	73,649	76,614	-3.9%	69,547	69,736	3,410	6,189	13	NM	678	665
Georgia	24,572	26,321	-6.6%	18,367	20,062	5,845	5,997	0	0	360	262
Maryland	2,935	2,220	32.2%	0	0	2,662	1,937	228	242	45	41
North Carolina	18,487	19,963	-7.4%	15,908	17,608	2,522	2,259	5	5	52	92
South Carolina	7,538	6,922	8.9%	6,449	5,596	1,023	1,279	0	NM	66	43
Virginia	21,527	18,116	18.8%	15,136	13,029	6,092	4,830	4	NM	295	254
West Virginia	475	569	-16.6%	69	46	169	500	0	0	237	23
East South Central	52,318	60,939	-14.1%	34,500	39,269	16,669	20,600	65	74	1,084	996
Alabama	23,529	26,965	-12.7%	8,466	8,074	14,560	18,352	0	0	503	538
Kentucky	2,597	3,985	-34.8%	2,345	3,664	126	207	0	0	125	113
Mississippi	21,439	24,715	-13.3%	19,258	22,468	1,978	2,041	3	NM	201	202
Tennessee	4,753	5,274	-9.9%	4,431	5,062	5	0	62	69	255	143
West South Central	138,532	171,399	-19.2%	37,030	53,397	69,736	84,313	428	438	31,338	33,251
Arkansas	7,175	8,918	-19.6%	1,667	3,458	5,363	5,299	0	NM	144	161
Louisiana	27,599	33,644	-18.0%	13,725	17,461	2,090	3,158	72	85	11,711	12,940
Oklahoma	12,947	17,498	-26.0%	7,986	11,891	4,860	5,513	0	NM	101	88
Texas	90,811	111,339	-18.4%	13,653	20,587	57,422	70,343	355	346	19,382	20,062
Mountain	37,178	46,899	-20.7%	28,671	36,068	7,594	9,914	204	174	709	744
Arizona	10,867	14,967	-27.4%	7,506	9,570	3,293	5,338	68	59	0	0
Colorado	5,535	6,448	-14.2%	4,634	5,473	891	966	0	0	10	NM
Idaho	1,354	1,546	-12.5%	776	885	514	619	20	0	43	43
Montana	210	329	-36.2%	178	293	30	NM	0	0	2	0
Nevada	11,862	13,981	-15.2%	10,702	12,813	1,014	977	28	29	118	161
New Mexico	4,358	4,800	-9.2%	2,550	2,840	1,753	1,900	53	51	1	NM
Utah	2,615	4,433	-41.0%	2,258	4,114	98	78	35	35	224	206
Wyoming	378	396	-4.4%	NM	80	1	NM	0	0	311	315
Pacific Contiguous	42,785	52,364	-18.3%	16,598	18,860	19,986	27,263	941	857	5,259	5,384
California	35,003	41,920	-16.5%	12,263	13,722	16,667	22,084	906	814	5,167	5,301
Oregon	3,936	5,884	-33.1%	1,891	2,499	1,977	3,320	25	NM	43	34
Washington	3,846	4,560	-15.7%	2,444	2,639	1,342	1,860	10	NM	50	49
Pacific Noncontiguous	655	1,182	-44.6%	618	1,144	0	0	2	2	34	36
Alaska	655	1,182	-44.6%	618	1,144	0	0	2	2	34	36
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	559,347	654,113	-14.5%	272,266	313,577	239,785	291,763	3,612	3,752	43,684	45,021

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	62	64	-2.4%	0	0	NM	0	0	0	62	64
New Jersey	17	NM	NM	0	0	0	0	0	0	17	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	45	43	5.6%	0	0	NM	0	0	0	45	43
East North Central	460	434	6.0%	10	17	180	200	0	0	269	217
Illinois	3	NM	NM	0	0	0	0	0	0	3	NM
Indiana	253	173	46.7%	0	NM	0	0	0	0	253	171
Michigan	123	149	-17.1%	10	15	113	133	0	0	0	0
Ohio	80	86	-6.6%	0	0	68	66	0	0	13	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	NM	NM	0	0	0	0	0	0	4	NM
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	NM	NM	0	0	0	0	0	0	4	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	38	31	23.4%	0	0	0	0	0	0	38	31
Delaware	35	29	21.2%	0	0	0	0	0	0	35	29
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	0	75.3%	0	0	0	0	0	0	1	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	2	45.6%	0	0	0	0	0	0	3	2
East South Central	2	NM	NM	0	0	0	0	0	0	2	NM
Alabama	0	NM	NM	0	0	0	0	0	0	0	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	24.4%	0	0	0	0	0	0	1	1
West South Central	409	365	12.0%	0	0	122	115	0	0	287	250
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	178	131	36.0%	0	0	0	0	0	0	178	131
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	231	234	-1.4%	0	0	122	115	0	0	109	119
Mountain	24	28	-14.7%	0	0	1	1	0	0	23	27
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	1	37.6%	0	0	1	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	NM	NM	0	0	0	0	0	0	0	NM
Wyoming	23	27	-15.2%	0	0	0	0	0	0	23	27
Pacific Contiguous	150	152	-1.2%	0	0	31	32	0	0	119	120
California	119	120	-0.9%	0	0	0	0	0	0	119	120
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	31	32	-2.1%	0	0	31	32	0	0	0	0
Pacific Noncontiguous	4	NM	NM	0	0	0	0	0	0	4	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	4	NM	NM	0	0	0	0	0	0	4	NM
U.S. Total	1,153	1,085	6.4%	10	17	335	347	0	0	808	720

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	361	396	-8.8%	0	0	NM	0	0	0	361	396
New Jersey	111	132	-16.0%	0	0	0	0	0	0	111	132
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	250	264	-5.2%	0	0	NM	0	0	0	250	264
East North Central	2,861	2,648	8.0%	91	50	1,143	1,211	0	0	1,626	1,387
Illinois	89	165	-46.0%	0	0	0	4	0	0	89	161
Indiana	1,452	1,120	29.6%	11	NM	0	0	0	0	1,441	1,110
Michigan	835	839	-0.5%	80	40	755	799	0	0	0	0
Ohio	485	524	-7.5%	0	0	388	408	0	0	96	116
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	17	27	-37.2%	0	0	0	0	0	0	17	27
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	17	27	-37.2%	0	0	0	0	0	0	17	27
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	200	142	41.5%	0	0	0	0	0	0	200	142
Delaware	183	129	41.9%	0	0	0	0	0	0	183	129
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3	2	26.5%	0	0	0	0	0	0	3	2
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	15	11	39.5%	0	0	0	0	0	0	15	11
East South Central	16	20	-19.0%	0	0	0	0	0	0	16	20
Alabama	9	NM	NM	0	0	0	0	0	0	9	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7	7	0.1%	0	0	0	0	0	0	7	7
West South Central	2,357	2,426	-2.8%	0	0	693	603	0	0	1,663	1,823
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,038	1,167	-11.0%	0	0	0	0	0	0	1,038	1,167
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,319	1,259	4.7%	0	0	693	603	0	0	625	656
Mountain	197	224	-12.0%	0	0	8	7	0	0	188	217
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	8	6	36.3%	0	0	8	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	6	NM	NM	0	0	0	0	0	0	6	NM
Wyoming	182	213	-14.3%	0	0	0	0	0	0	182	213
Pacific Contiguous	839	978	-14.2%	0	0	160	203	0	0	679	775
California	679	775	-12.4%	0	0	0	0	0	0	679	775
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	160	203	-21.2%	0	0	160	203	0	0	0	0
Pacific Noncontiguous	25	22	12.6%	0	0	0	0	0	0	25	22
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	25	22	12.6%	0	0	0	0	0	0	25	22
U.S. Total	6,873	6,882	-0.1%	91	50	2,005	2,023	0	0	4,777	4,809

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	2,883	2,528	14.0%	0	0	2,883	2,528	0	0	0	0
Connecticut	1,500	1,157	29.6%	0	0	1,500	1,157	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	482	471	2.3%	0	0	482	471	0	0	0	0
New Hampshire	901	900	0.1%	0	0	901	900	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	13,579	11,467	18.4%	0	0	13,579	11,467	0	0	0	0
New Jersey	2,952	1,980	49.1%	0	0	2,952	1,980	0	0	0	0
New York	3,503	3,107	12.7%	0	0	3,503	3,107	0	0	0	0
Pennsylvania	7,124	6,380	11.7%	0	0	7,124	6,380	0	0	0	0
East North Central	13,400	13,364	0.3%	2,401	2,333	10,999	11,031	0	0	0	0
Illinois	8,046	8,137	-1.1%	0	0	8,046	8,137	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,975	2,904	2.4%	2,401	2,333	574	570	0	0	0	0
Ohio	1,510	1,461	3.3%	0	0	1,510	1,461	0	0	0	0
Wisconsin	869	863	0.8%	0	0	869	863	0	0	0	0
West North Central	3,835	4,110	-6.7%	3,404	3,780	431	329	0	0	0	0
Iowa	431	329	30.8%	0	0	431	329	0	0	0	0
Kansas	869	860	1.0%	869	860	0	0	0	0	0	0
Minnesota	1,184	1,216	-2.7%	1,184	1,216	0	0	0	0	0	0
Missouri	785	866	-9.3%	785	866	0	0	0	0	0	0
Nebraska	566	838	-32.5%	566	838	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,749	17,804	-0.3%	16,478	16,572	1,271	1,232	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	2,635	2,614	0.8%	2,635	2,614	0	0	0	0	0	0
Georgia	2,908	2,884	0.8%	2,908	2,884	0	0	0	0	0	0
Maryland	1,271	1,232	3.1%	0	0	1,271	1,232	0	0	0	0
North Carolina	3,706	3,715	-0.3%	3,706	3,715	0	0	0	0	0	0
South Carolina	4,705	4,749	-0.9%	4,705	4,749	0	0	0	0	0	0
Virginia	2,524	2,610	-3.3%	2,524	2,610	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,827	6,657	2.6%	6,827	6,657	0	0	0	0	0	0
Alabama	3,623	3,564	1.6%	3,623	3,564	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	974	705	38.2%	974	705	0	0	0	0	0	0
Tennessee	2,231	2,388	-6.6%	2,231	2,388	0	0	0	0	0	0
West South Central	4,696	6,066	-22.6%	1,870	2,479	2,826	3,587	0	0	0	0
Arkansas	604	1,315	-54.1%	604	1,315	0	0	0	0	0	0
Louisiana	1,266	1,164	8.8%	1,266	1,164	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,826	3,587	-21.2%	0	0	2,826	3,587	0	0	0	0
Mountain	2,813	2,839	-0.9%	2,813	2,839	0	0	0	0	0	0
Arizona	2,813	2,839	-0.9%	2,813	2,839	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,230	2,340	-47.5%	1,230	2,340	0	0	0	0	0	0
California	960	1,526	-37.1%	960	1,526	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	270	814	-66.9%	270	814	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	67,011	67,175	-0.2%	35,022	37,000	31,988	30,175	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	14,896	15,589	-4.4%	0	0	14,896	15,589	0	0	0	0
Connecticut	8,336	7,474	11.5%	0	0	8,336	7,474	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,089	2,865	-27.1%	0	0	2,089	2,865	0	0	0	0
New Hampshire	4,471	5,250	-14.8%	0	0	4,471	5,250	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	76,892	75,802	1.4%	0	0	76,892	75,802	0	0	0	0
New Jersey	16,777	15,513	8.1%	0	0	16,777	15,513	0	0	0	0
New York	19,456	19,658	-1.0%	0	0	19,456	19,658	0	0	0	0
Pennsylvania	40,659	40,631	0.1%	0	0	40,659	40,631	0	0	0	0
East North Central	76,000	77,312	-1.7%	13,647	13,121	62,353	64,191	0	0	0	0
Illinois	46,924	48,154	-2.6%	0	0	46,924	48,154	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	16,183	16,650	-2.8%	13,647	13,121	2,536	3,529	0	0	0	0
Ohio	8,133	7,644	6.4%	0	0	8,133	7,644	0	0	0	0
Wisconsin	4,760	4,864	-2.1%	0	0	4,760	4,864	0	0	0	0
West North Central	23,357	24,297	-3.9%	20,715	21,756	2,642	2,541	0	0	0	0
Iowa	2,642	2,541	4.0%	0	0	2,642	2,541	0	0	0	0
Kansas	5,298	5,306	-0.1%	5,298	5,306	0	0	0	0	0	0
Minnesota	6,818	6,836	-0.3%	6,818	6,836	0	0	0	0	0	0
Missouri	5,180	4,087	26.7%	5,180	4,087	0	0	0	0	0	0
Nebraska	3,419	5,527	-38.1%	3,419	5,527	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	99,698	103,160	-3.4%	92,405	96,070	7,293	7,090	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	14,124	15,374	-8.1%	14,124	15,374	0	0	0	0	0	0
Georgia	16,544	16,380	1.0%	16,544	16,380	0	0	0	0	0	0
Maryland	7,293	7,090	2.9%	0	0	7,293	7,090	0	0	0	0
North Carolina	20,389	20,938	-2.6%	20,389	20,938	0	0	0	0	0	0
South Carolina	26,030	28,175	-7.6%	26,030	28,175	0	0	0	0	0	0
Virginia	15,317	15,203	0.8%	15,317	15,203	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	39,097	37,545	4.1%	39,097	37,545	0	0	0	0	0	0
Alabama	20,887	20,147	3.7%	20,887	20,147	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	4,075	4,361	-6.6%	4,075	4,361	0	0	0	0	0	0
Tennessee	14,134	13,037	8.4%	14,134	13,037	0	0	0	0	0	0
West South Central	30,084	36,693	-18.0%	11,320	15,745	18,764	20,949	0	0	0	0
Arkansas	4,760	7,795	-38.9%	4,760	7,795	0	0	0	0	0	0
Louisiana	6,559	7,950	-17.5%	6,559	7,950	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	18,764	20,949	-10.4%	0	0	18,764	20,949	0	0	0	0
Mountain	15,919	16,196	-1.7%	15,919	16,196	0	0	0	0	0	0
Arizona	15,919	16,196	-1.7%	15,919	16,196	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	11,387	13,835	-17.7%	11,387	13,835	0	0	0	0	0	0
California	7,953	8,976	-11.4%	7,953	8,976	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,433	4,859	-29.3%	3,433	4,859	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	387,330	400,429	-3.3%	204,489	214,268	182,841	186,161	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	659	403	63.4%	92	NM	529	327	0	NM	37	NM
Connecticut	29	NM	NM	2	NM	27	NM	0	0	0	0
Maine	315	211	48.8%	0	0	278	189	0	0	37	NM
Massachusetts	80	NM	NM	20	NM	59	NM	0	NM	1	NM
New Hampshire	123	60	103.4%	29	NM	94	NM	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	112	NM	NM	41	NM	71	NM	0	0	0	0
Middle Atlantic	2,751	2,316	18.8%	2,134	1,952	609	359	1	NM	7	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,493	2,180	14.4%	2,126	1,949	360	227	1	NM	7	NM
Pennsylvania	256	135	89.3%	8	NM	248	132	0	0	0	0
East North Central	515	443	16.2%	451	389	49	NM	0	NM	NM	NM
Illinois	12	NM	NM	NM	NM	7	NM	0	NM	0	0
Indiana	36	38	-5.5%	36	38	0	0	0	0	0	0
Michigan	166	138	20.5%	154	128	NM	NM	0	0	NM	NM
Ohio	44	44	-0.5%	24	30	20	NM	0	0	0	0
Wisconsin	257	213	20.6%	233	189	NM	NM	0	0	NM	NM
West North Central	1,362	953	42.9%	1,323	923	NM	NM	0	0	14	NM
Iowa	91	85	7.7%	90	84	1	NM	0	0	0	0
Kansas	3	NM	NM	0	0	3	NM	0	0	0	0
Minnesota	72	77	-6.6%	NM	49	NM	NM	0	0	14	NM
Missouri	149	94	57.7%	149	94	0	0	0	0	0	0
Nebraska	179	153	16.4%	179	153	0	0	0	0	0	0
North Dakota	254	194	30.6%	254	194	0	0	0	0	0	0
South Dakota	614	347	76.7%	614	347	0	0	0	0	0	0
South Atlantic	1,484	887	67.2%	1,204	734	225	107	1	NM	53	45
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23	NM	NM	23	NM	0	0	0	0	0	0
Georgia	275	201	36.8%	273	198	1	NM	0	0	1	NM
Maryland	174	67	159.4%	0	0	174	67	0	0	0	0
North Carolina	467	251	86.3%	460	247	4	NM	1	NM	NM	NM
South Carolina	266	138	92.5%	260	134	5	NM	0	NM	0	0
Virginia	130	100	30.5%	123	94	7	NM	0	0	0	NM
West Virginia	150	115	30.0%	65	NM	33	29	0	0	52	42
East South Central	2,219	967	129.5%	2,218	966	NM	NM	0	0	0	0
Alabama	897	321	179.8%	897	321	0	0	0	0	0	0
Kentucky	408	215	90.0%	408	214	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	913	431	111.7%	913	431	0	0	0	0	0	0
West South Central	792	710	11.5%	689	621	103	89	NM	0	0	0
Arkansas	343	283	21.0%	338	280	NM	NM	0	0	0	0
Louisiana	95	83	14.9%	0	0	95	83	0	0	0	0
Oklahoma	255	240	6.2%	255	240	0	0	0	0	0	0
Texas	99	104	-4.5%	96	102	3	NM	NM	0	0	0
Mountain	3,422	3,256	5.1%	3,273	3,111	147	144	2	NM	0	0
Arizona	644	640	0.6%	644	640	0	0	0	0	0	0
Colorado	236	189	24.7%	204	170	NM	NM	2	NM	0	0
Idaho	1,053	899	17.1%	960	790	93	109	0	0	0	0
Montana	1,065	1,045	1.9%	1,049	1,032	NM	NM	0	0	0	0
Nevada	191	195	-2.2%	186	194	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	96	73	31.4%	96	72	0	NM	0	0	0	0
Wyoming	113	200	-43.3%	112	199	2	NM	0	0	0	0
Pacific Contiguous	17,264	12,849	34.4%	16,957	12,618	307	228	0	NM	0	0
California	4,456	3,277	36.0%	4,218	3,094	238	179	0	NM	0	0
Oregon	3,759	2,477	51.8%	3,728	2,453	NM	NM	0	0	0	0
Washington	9,049	7,096	27.5%	9,012	7,071	NM	NM	0	0	0	0
Pacific Noncontiguous	206	116	76.9%	191	108	0	3	NM	0	NM	NM
Alaska	200	106	88.9%	191	106	0	0	NM	0	0	0
Hawaii	NM	NM	NM	1	NM	0	3	0	0	NM	NM
U.S. Total	30,674	22,902	33.9%	28,532	21,477	1,994	1,314	NM	NM	133	105

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	3,915	3,823	2.4%	545	570	3,143	3,040	3	NM	224	210
Connecticut	179	180	-0.8%	15	NM	163	166	0	0	0	0
Maine	1,860	1,744	6.6%	0	0	1,640	1,538	0	0	220	207
Massachusetts	481	501	-4.0%	122	125	352	369	3	NM	4	NM
New Hampshire	735	756	-2.8%	172	196	563	561	0	0	0	0
Rhode Island	2	NM	NM	0	0	2	NM	0	0	0	0
Vermont	659	640	3.1%	235	235	424	405	0	0	0	0
Middle Atlantic	15,973	15,633	2.2%	12,290	11,901	3,639	3,697	4	NM	41	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	14,404	13,985	3.0%	12,225	11,865	2,135	2,085	4	NM	41	NM
Pennsylvania	1,552	1,634	-5.0%	65	NM	1,487	1,598	0	0	0	0
East North Central	2,941	2,716	8.3%	2,557	2,341	282	269	1	NM	101	106
Illinois	71	74	-3.5%	NM	NM	43	44	1	NM	0	0
Indiana	214	201	6.3%	214	201	0	0	0	0	0	0
Michigan	933	865	7.9%	862	794	NM	55	0	0	NM	NM
Ohio	262	262	-0.3%	141	150	120	113	0	0	0	0
Wisconsin	1,461	1,314	11.2%	1,312	1,167	NM	NM	0	0	86	89
West North Central	7,681	5,682	35.2%	7,465	5,494	134	120	0	0	82	68
Iowa	538	513	4.9%	534	509	4	NM	0	0	0	0
Kansas	15	NM	NM	0	0	15	NM	0	0	0	0
Minnesota	485	476	1.9%	288	303	NM	105	0	0	82	68
Missouri	901	843	6.9%	901	843	0	0	0	0	0	0
Nebraska	1,021	941	8.5%	1,021	941	0	0	0	0	0	0
North Dakota	1,394	983	41.7%	1,394	983	0	0	0	0	0	0
South Dakota	3,328	1,915	73.8%	3,328	1,915	0	0	0	0	0	0
South Atlantic	9,187	9,508	-3.4%	7,171	7,847	1,692	1,320	7	NM	316	332
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	137	129	6.0%	137	129	0	0	0	0	0	0
Georgia	1,717	1,917	-10.4%	1,704	1,900	5	NM	0	0	8	NM
Maryland	1,388	1,030	34.8%	0	0	1,388	1,030	0	0	0	0
North Carolina	2,690	3,035	-11.4%	2,655	2,997	24	NM	6	NM	NM	NM
South Carolina	1,623	1,633	-0.6%	1,588	1,593	34	NM	1	NM	0	0
Virginia	746	950	-21.6%	704	903	42	NM	0	0	0	NM
West Virginia	887	814	8.9%	383	325	200	179	0	0	304	310
East South Central	13,333	11,819	12.8%	13,328	11,814	NM	NM	0	0	0	0
Alabama	5,574	5,572	0.0%	5,574	5,572	0	0	0	0	0	0
Kentucky	2,338	1,840	27.1%	2,334	1,835	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5,421	4,407	23.0%	5,421	4,407	0	0	0	0	0	0
West South Central	4,736	5,080	-6.8%	4,138	4,423	598	657	NM	0	0	0
Arkansas	2,037	2,162	-5.8%	2,016	2,134	21	NM	0	0	0	0
Louisiana	561	608	-7.8%	0	0	561	608	0	0	0	0
Oklahoma	1,521	1,529	-0.5%	1,521	1,529	0	0	0	0	0	0
Texas	617	781	-21.0%	601	760	16	NM	NM	0	0	0
Mountain	19,146	17,775	7.7%	18,378	17,080	763	690	5	NM	0	0
Arizona	3,751	3,731	0.6%	3,751	3,731	0	0	0	0	0	0
Colorado	1,235	1,113	10.9%	1,090	995	139	114	5	NM	0	0
Idaho	5,791	5,400	7.3%	5,287	4,927	505	473	0	0	0	0
Montana	6,310	5,448	15.8%	6,220	5,367	NM	81	0	0	0	0
Nevada	813	978	-16.9%	793	966	NM	NM	0	0	0	0
New Mexico	113	88	28.3%	113	88	0	0	0	0	0	0
Utah	529	462	14.6%	522	457	8	NM	0	0	0	0
Wyoming	604	555	8.8%	602	549	2	NM	0	0	0	0
Pacific Contiguous	96,504	77,493	24.5%	94,695	76,417	1,798	1,064	12	NM	0	0
California	25,633	14,649	75.0%	24,202	13,907	1,419	730	12	NM	0	0
Oregon	21,732	19,889	9.3%	21,557	19,733	175	155	0	0	0	0
Washington	49,140	42,956	14.4%	48,936	42,776	204	179	0	0	0	0
Pacific Noncontiguous	1,131	811	39.5%	1,056	768	8	10	NM	0	NM	NM
Alaska	1,088	756	43.9%	1,051	756	0	0	NM	0	0	0
Hawaii	NM	55	NM	4	NM	8	10	0	0	NM	NM
U.S. Total	174,546	150,341	16.1%	161,622	138,654	12,061	10,873	NM	NM	795	780

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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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	1,016	895	13.4%	81	88	823	705	18	15	94	87
Connecticut	73	77	-4.2%	0	NM	73	76	0	0	0	0
Maine	421	351	19.8%	0	0	319	256	8	8	94	87
Massachusetts	239	187	27.6%	7	NM	227	177	5	NM	0	NM
New Hampshire	173	178	-2.8%	30	30	139	145	4	NM	0	0
Rhode Island	34	21	62.1%	0	0	33	20	1	NM	0	0
Vermont	75	81	-7.1%	44	51	32	31	0	NM	0	0
Middle Atlantic	1,324	1,122	17.9%	13	12	1,175	984	70	55	66	72
New Jersey	221	197	11.8%	13	12	173	153	34	32	NM	NM
New York	601	498	20.6%	0	0	562	457	22	18	17	23
Pennsylvania	502	427	17.7%	0	0	440	374	15	NM	47	48
East North Central	2,441	1,843	32.4%	290	245	1,997	1,469	19	9	134	120
Illinois	981	648	51.5%	3	NM	978	644	NM	NM	0	0
Indiana	431	346	24.6%	35	30	389	308	2	NM	NM	6
Michigan	571	501	14.0%	128	127	376	320	12	4	55	49
Ohio	199	149	33.3%	NM	NM	169	120	NM	NM	25	25
Wisconsin	259	200	29.6%	121	81	86	76	NM	NM	48	40
West North Central	5,661	4,408	28.4%	1,785	1,520	3,794	2,820	14	14	68	54
Iowa	1,596	1,330	20.0%	1,028	833	562	489	NM	NM	4	5
Kansas	1,469	989	48.5%	154	60	1,316	929	0	0	0	0
Minnesota	1,067	860	24.1%	215	215	786	592	NM	4	60	48
Missouri	171	84	102.9%	NM	NM	161	74	6	7	0	NM
Nebraska	353	269	31.5%	23	21	329	247	1	NM	0	0
North Dakota	802	630	27.3%	300	312	498	318	0	0	4	0
South Dakota	202	246	-17.8%	61	74	141	172	0	0	0	0
South Atlantic	2,794	2,233	25.1%	305	209	1,608	1,115	36	44	845	864
Delaware	13	13	1.5%	NM	NM	11	10	NM	NM	NM	NM
District of Columbia	2	0	--	0	0	2	0	0	0	0	0
Florida	438	395	11.0%	58	25	209	205	6	NM	166	162
Georgia	599	464	28.9%	27	8	268	123	NM	NM	303	333
Maryland	117	112	4.5%	NM	NM	107	97	NM	NM	7	11
North Carolina	888	609	45.8%	54	21	738	463	16	19	81	107
South Carolina	234	200	16.9%	37	37	41	36	0	0	156	128
Virginia	361	346	4.3%	127	117	90	88	11	19	133	122
West Virginia	141	93	52.2%	0	0	141	93	0	0	0	0
East South Central	556	553	0.4%	10	10	74	41	NM	NM	471	502
Alabama	280	284	-1.6%	NM	0	42	23	0	0	235	261
Kentucky	34	39	-11.9%	7	10	0	NM	0	0	26	28
Mississippi	140	135	3.7%	0	0	4	NM	0	0	136	133
Tennessee	102	96	6.7%	0	0	28	17	NM	NM	74	79
West South Central	7,466	5,774	29.3%	134	103	6,924	5,248	7	NM	401	418
Arkansas	132	107	23.7%	NM	NM	15	9	1	NM	116	97
Louisiana	214	229	-6.4%	0	0	8	8	0	0	207	221
Oklahoma	1,887	1,406	34.1%	112	80	1,768	1,302	0	0	7	25
Texas	5,233	4,032	29.8%	22	23	5,133	3,929	6	NM	72	74
Mountain	3,812	2,714	40.4%	310	227	3,452	2,433	16	15	34	39
Arizona	643	457	40.8%	74	56	566	398	NM	NM	0	0
Colorado	779	613	27.0%	23	7	753	603	NM	NM	0	NM
Idaho	317	251	26.3%	NM	NM	284	213	1	NM	32	36
Montana	159	151	5.2%	16	15	141	134	0	0	2	NM
Nevada	762	574	32.7%	5	NM	747	562	9	NM	0	NM
New Mexico	476	284	67.7%	29	26	446	257	NM	NM	0	0
Utah	355	175	103.2%	21	20	333	154	1	NM	0	0
Wyoming	322	210	53.2%	141	98	181	112	0	0	0	0
Pacific Contiguous	6,999	6,862	2.0%	732	828	5,963	5,744	86	84	219	207
California	5,388	5,033	7.1%	233	234	5,015	4,671	82	81	58	47
Oregon	825	883	-6.6%	134	162	646	680	NM	NM	43	40
Washington	785	946	-17.0%	364	432	301	393	NM	NM	118	119
Pacific Noncontiguous	124	130	-4.8%	18	16	89	89	16	21	NM	NM
Alaska	18	15	16.5%	9	8	NM	NM	4	3	NM	NM
Hawaii	106	115	-7.7%	9	8	85	85	12	18	0	4
U.S. Total	32,191	26,535	21.3%	3,677	3,257	25,897	20,650	284	263	2,332	2,366

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	5,906	5,368	10.0%	440	448	4,749	4,273	98	82	619	566
Connecticut	412	454	-9.3%	2	NM	410	452	0	0	0	0
Maine	2,741	2,271	20.7%	0	0	2,077	1,664	45	43	619	564
Massachusetts	1,133	1,036	9.4%	40	41	1,064	974	29	19	0	NM
New Hampshire	988	1,045	-5.4%	139	139	830	892	19	14	0	0
Rhode Island	191	120	59.3%	0	0	187	116	4	NM	0	0
Vermont	440	442	-0.4%	260	267	179	174	1	NM	0	0
Middle Atlantic	7,470	7,329	1.9%	52	53	6,634	6,558	361	339	424	378
New Jersey	1,045	971	7.6%	52	53	821	755	167	161	NM	NM
New York	3,396	3,279	3.6%	0	0	3,179	3,065	113	106	103	108
Pennsylvania	3,030	3,079	-1.6%	0	0	2,634	2,739	80	72	316	269
East North Central	16,119	15,737	2.4%	1,823	1,858	13,402	12,960	114	104	779	815
Illinois	6,706	6,294	6.5%	19	19	6,685	6,272	NM	NM	0	0
Indiana	2,794	3,218	-13.2%	195	172	2,553	3,002	11	9	35	34
Michigan	3,738	3,580	4.4%	874	978	2,496	2,208	66	64	302	330
Ohio	1,335	1,124	18.8%	16	15	1,163	942	8	8	149	159
Wisconsin	1,546	1,521	1.6%	720	674	506	536	27	20	293	291
West North Central	38,746	32,186	20.4%	12,379	11,227	25,932	20,598	82	78	352	283
Iowa	11,326	10,601	6.8%	7,418	6,639	3,872	3,910	14	20	21	32
Kansas	9,785	7,214	35.6%	926	464	8,858	6,744	0	0	1	7
Minnesota	7,128	6,299	13.2%	1,507	1,592	5,272	4,446	28	27	321	233
Missouri	1,006	690	45.9%	24	21	950	644	31	22	2	NM
Nebraska	2,764	1,921	43.8%	152	140	2,602	1,773	10	8	0	0
North Dakota	5,193	3,891	33.4%	1,865	1,878	3,320	2,004	0	0	7	9
South Dakota	1,545	1,569	-1.5%	487	494	1,058	1,075	0	0	0	0
South Atlantic	15,380	12,697	21.1%	1,651	1,125	8,340	6,210	202	252	5,188	5,111
Delaware	67	66	0.9%	NM	NM	53	53	3	NM	NM	7
District of Columbia	23	0	--	0	0	23	0	0	0	0	0
Florida	2,919	2,401	21.6%	363	141	1,468	1,228	28	27	1,060	1,005
Georgia	3,337	2,588	28.9%	139	36	1,279	623	NM	6	1,917	1,923
Maryland	662	661	0.0%	NM	NM	593	587	11	17	53	53
North Carolina	4,101	3,025	35.6%	218	123	3,303	2,234	81	94	498	574
South Carolina	1,350	1,179	14.4%	220	206	218	205	0	0	911	769
Virginia	2,059	2,023	1.8%	703	611	538	527	77	105	742	780
West Virginia	864	753	14.6%	0	0	864	753	0	0	0	0
East South Central	3,177	3,155	0.7%	51	45	358	240	NM	NM	2,765	2,868
Alabama	1,649	1,616	2.1%	8	0	218	130	0	0	1,424	1,486
Kentucky	206	231	-10.9%	44	45	4	NM	0	0	159	182
Mississippi	754	756	-0.4%	0	0	13	6	0	0	741	750
Tennessee	568	551	3.1%	0	0	124	100	NM	NM	442	450
West South Central	53,607	42,169	27.1%	988	825	50,114	38,787	42	44	2,464	2,512
Arkansas	740	702	5.3%	NM	NM	65	69	3	NM	670	630
Louisiana	1,293	1,326	-2.5%	0	0	44	47	0	0	1,249	1,279
Oklahoma	13,091	10,080	29.9%	826	684	12,152	9,247	0	0	113	150
Texas	38,484	30,060	28.0%	161	141	37,853	29,424	39	42	432	453
Mountain	21,999	18,923	16.3%	1,809	1,803	19,927	16,823	76	74	186	223
Arizona	2,943	2,307	27.6%	313	263	2,619	2,033	11	11	0	0
Colorado	5,611	5,149	9.0%	168	53	5,428	5,082	13	12	2	NM
Idaho	1,692	1,680	0.7%	NM	6	1,506	1,460	5	4	174	210
Montana	1,087	1,141	-4.7%	116	118	961	1,012	0	0	10	11
Nevada	4,081	3,285	24.2%	22	18	4,021	3,227	39	39	0	NM
New Mexico	2,707	2,250	20.3%	123	126	2,582	2,122	NM	NM	0	0
Utah	1,833	857	113.7%	135	127	1,691	724	6	6	0	0
Wyoming	2,045	2,253	-9.2%	926	1,091	1,119	1,162	0	0	0	0
Pacific Contiguous	37,186	34,533	7.7%	3,767	4,235	31,708	28,583	481	510	1,231	1,204
California	28,832	25,079	15.0%	1,107	1,067	26,965	23,251	458	493	302	268
Oregon	3,831	4,335	-11.6%	521	712	3,041	3,362	NM	9	256	252
Washington	4,522	5,118	-11.6%	2,138	2,455	1,703	1,971	NM	9	673	684
Pacific Noncontiguous	786	711	10.6%	105	100	568	441	109	119	NM	50
Alaska	106	115	-7.6%	56	58	28	29	19	24	NM	3
Hawaii	680	596	14.2%	49	43	540	411	90	95	0	47
U.S. Total	200,377	172,807	16.0%	23,066	21,719	161,732	135,472	1,567	1,604	14,012	14,011

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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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	-31	-34	-8.0%	0	0	-31	-34	0	0	0	0
Connecticut	1	0	NM	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-32	-34	-6.0%	0	0	-32	-34	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	-103	-118	-12.5%	-42	-64	-62	-54	0	0	0	0
New Jersey	-12	-20	-41.0%	-12	-20	0	0	0	0	0	0
New York	-30	-44	-32.3%	-30	-44	0	0	0	0	0	0
Pennsylvania	-62	-54	14.4%	0	0	-62	-54	0	0	0	0
East North Central	-67	-103	-34.6%	-67	-103	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	-67	-103	-34.6%	-67	-103	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	19	54	-64.6%	19	54	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	19	54	-64.6%	19	54	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	-328	-379	-13.3%	-328	-379	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	-91	-108	-15.6%	-91	-108	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	-97	-131	-25.8%	-97	-131	0	0	0	0	0	0
Virginia	-140	-140	0.0%	-140	-140	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-58	-81	-29.4%	-58	-81	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	-58	-81	-29.4%	-58	-81	0	0	0	0	0	0
West South Central	-12	-1	775.4%	-12	-1	0	0	0	0	0	0
Arkansas	0	3	-100.3%	0	3	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-4	190.9%	-12	-4	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-25	7	-467.7%	-25	7	0	0	0	0	0	0
Arizona	4	26	-86.3%	4	26	0	0	0	0	0	0
Colorado	-29	-20	46.7%	-29	-20	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	38	159	-75.8%	38	159	0	0	0	0	0	0
California	38	159	-75.9%	38	159	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	-106.2%	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	-568	-497	14.1%	-474	-409	-93	-88	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	-201	-239	-15.8%	0	0	-201	-239	0	0	0	0
Connecticut	-4	1	-834.2%	0	0	-4	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-197	-239	-17.7%	0	0	-197	-239	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	-545	-532	2.4%	-263	-295	-282	-238	0	0	0	0
New Jersey	-74	-90	-17.8%	-74	-90	0	0	0	0	0	0
New York	-189	-205	-7.5%	-189	-205	0	0	0	0	0	0
Pennsylvania	-282	-238	18.7%	0	0	-282	-238	0	0	0	0
East North Central	-290	-300	-3.2%	-290	-300	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	-290	-300	-3.2%	-290	-300	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	78	218	-64.2%	78	218	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	78	218	-64.2%	78	218	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-1,570	-1,091	44.0%	-1,570	-1,091	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	-611	-160	282.3%	-611	-160	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	-476	-440	8.3%	-476	-440	0	0	0	0	0	0
Virginia	-483	-491	-1.6%	-483	-491	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-282	-308	-8.4%	-282	-308	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	-282	-308	-8.4%	-282	-308	0	0	0	0	0	0
West South Central	-39	0	NM	-39	0	0	0	0	0	0	0
Arkansas	16	30	-47.4%	16	30	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-55	-30	82.9%	-55	-30	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-173	-120	44.3%	-173	-120	0	0	0	0	0	0
Arizona	-15	32	-145.9%	-15	32	0	0	0	0	0	0
Colorado	-158	-152	4.1%	-158	-152	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	157	8	NM	157	8	0	0	0	0	0	0
California	155	11	NM	155	11	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	-3	-190.7%	3	-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	-2,867	-2,364	21.2%	-2,383	-1,888	-483	-477	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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	161	152	5.7%	0	0	143	136	7	8	10	8
Connecticut	47	49	-4.6%	0	0	47	49	0	0	0	0
Maine	34	32	6.9%	0	0	17	16	7	8	10	8
Massachusetts	75	66	13.7%	0	0	75	66	0	0	0	0
New Hampshire	4	5	-8.3%	0	0	4	5	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	194	196	-1.3%	0	0	150	165	38	31	5	0
New Jersey	41	47	-14.5%	0	0	25	35	11	13	5	0
New York	80	76	4.0%	0	0	60	58	20	18	0	0
Pennsylvania	74	72	1.8%	0	0	66	72	7	0	0	0
East North Central	81	85	-5.4%	1	2	7	14	13	5	59	65
Illinois	23	20	13.8%	0	0	-2	0	0	0	25	21
Indiana	31	41	-25.1%	0	0	0	0	2	NM	29	39
Michigan	23	17	35.8%	0	0	10	12	12	4	2	1
Ohio	0	NM	NM	0	0	-1	NM	0	0	1	1
Wisconsin	4	5	-10.7%	1	2	0	0	0	0	NM	NM
West North Central	39	39	-0.8%	18	20	14	12	NM	NM	4	5
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	35	34	1.3%	15	15	14	12	NM	NM	3	4
Missouri	0	1	-87.6%	0	1	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	357	412	-13.4%	0	0	179	222	10	18	168	173
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	263	268	-1.6%	0	0	125	132	0	0	138	136
Georgia	10	8	24.4%	0	0	0	0	0	0	10	8
Maryland	27	32	-14.1%	0	0	27	32	0	0	0	0
North Carolina	42	58	-27.2%	0	0	26	34	0	0	17	24
South Carolina	4	5	-24.8%	0	0	1	NM	0	0	3	5
Virginia	10	42	-76.1%	0	0	0	24	10	18	0	0
West Virginia	0	-1	-120.4%	0	0	0	-1	0	0	0	0
East South Central	6	8	-21.6%	4	7	0	0	0	0	2	NM
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	7	-34.1%	4	7	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	1	87.2%	0	0	0	0	0	0	2	1
West South Central	111	121	-8.6%	0	0	8	4	0	0	102	117
Arkansas	0	0	995.5%	0	0	0	0	0	0	0	0
Louisiana	59	57	4.1%	0	0	0	0	0	0	59	57
Oklahoma	5	4	31.5%	0	0	5	3	0	0	0	NM
Texas	46	60	-23.9%	0	0	3	NM	0	0	42	59
Mountain	45	51	-12.6%	2	NM	28	28	0	0	14	24
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	7.8%	0	0	1	NM	0	0	4	NM
Idaho	1	7	-80.1%	0	0	0	0	0	0	1	7
Montana	27	26	4.5%	0	0	27	26	0	0	0	0
Nevada	2	NM	NM	2	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	10	14	-33.9%	0	0	0	NM	0	0	10	14
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	80	79	0.5%	0	NM	21	28	0	0	59	51
California	78	70	10.7%	0	NM	19	19	0	0	59	51
Oregon	2	4	-59.9%	0	NM	2	4	0	0	0	0
Washington	1	5	-88.4%	0	0	1	5	0	0	0	0
Pacific Noncontiguous	24	19	30.2%	13	NM	0	2	12	17	0	0
Alaska	0	NM	NM	0	NM	0	0	0	0	0	0
Hawaii	25	19	32.8%	13	0	0	2	12	17	0	0
U.S. Total	1,097	1,164	-5.7%	38	28	551	609	83	82	424	444

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	908	936	-3.0%	0	0	799	842	41	46	68	48
Connecticut	268	297	-9.9%	0	0	268	297	0	0	0	0
Maine	204	179	14.0%	0	0	95	85	41	46	68	48
Massachusetts	412	433	-4.9%	0	0	412	433	0	0	0	0
New Hampshire	24	27	-8.9%	0	0	24	27	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	1,118	1,159	-3.6%	0	0	864	944	219	215	35	0
New Jersey	278	268	3.9%	0	0	172	198	72	70	35	0
New York	427	441	-3.0%	0	0	325	336	102	105	0	0
Pennsylvania	412	451	-8.5%	0	0	367	410	45	41	0	0
East North Central	472	513	-8.0%	63	21	41	84	73	72	295	336
Illinois	115	116	-0.6%	0	0	-9	-3	0	0	124	118
Indiana	150	191	-21.5%	0	0	0	0	10	9	140	182
Michigan	124	164	-24.1%	0	11	53	79	64	63	8	10
Ohio	57	13	325.3%	55	0	-3	8	0	0	5	5
Wisconsin	25	29	-12.6%	8	10	0	0	0	0	17	19
West North Central	220	231	-5.0%	98	118	77	71	16	17	28	26
Iowa	2	NM	NM	0	0	0	0	0	0	2	NM
Kansas	2	0	--	0	0	0	0	0	0	2	0
Minnesota	193	202	-4.0%	77	91	77	71	16	17	23	24
Missouri	1	7	-87.5%	1	7	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	21	20	1.6%	21	20	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,151	2,368	-9.2%	0	0	1,080	1,237	68	98	1,003	1,033
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	1,570	1,586	-1.0%	0	0	774	764	0	0	796	822
Georgia	58	56	3.8%	0	0	0	0	0	0	58	56
Maryland	151	157	-4.0%	0	0	151	157	0	NM	0	0
North Carolina	254	335	-24.2%	0	0	125	198	0	0	129	137
South Carolina	23	21	10.2%	0	0	3	NM	0	0	20	18
Virginia	96	217	-55.9%	0	0	27	119	68	98	0	0
West Virginia	-1	-4	-82.3%	0	0	-1	-4	0	0	0	0
East South Central	27	42	-35.3%	15	30	0	0	0	0	12	12
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	15	30	-48.9%	15	30	0	0	0	0	0	0
Mississippi	2	NM	NM	0	0	0	0	0	0	2	NM
Tennessee	10	9	7.9%	0	0	0	0	0	0	10	9
West South Central	594	669	-11.3%	0	0	53	16	0	0	541	653
Arkansas	3	3	-6.2%	0	0	0	0	0	0	3	3
Louisiana	295	319	-7.6%	0	0	0	0	0	0	295	319
Oklahoma	18	18	-1.7%	0	0	20	11	0	0	-2	7
Texas	279	329	-15.4%	0	0	33	6	0	0	245	324
Mountain	320	320	0.1%	16	NM	173	182	0	0	132	137
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	28	25	12.5%	0	0	8	7	0	0	20	18
Idaho	29	37	-22.9%	0	0	0	0	0	0	29	37
Montana	164	173	-4.9%	0	0	164	173	0	0	0	0
Nevada	16	NM	NM	16	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	61	84	-26.8%	0	0	0	NM	0	0	61	82
Wyoming	22	0	--	0	0	0	0	0	0	22	0
Pacific Contiguous	478	423	13.1%	0	NM	145	142	0	0	333	279
California	435	368	18.2%	0	NM	102	88	0	0	333	279
Oregon	18	23	-21.5%	0	NM	18	23	0	0	0	0
Washington	25	31	-21.3%	0	0	25	31	0	0	0	0
Pacific Noncontiguous	170	98	74.8%	82	NM	2	6	87	91	0	0
Alaska	-1	NM	NM	-1	NM	0	0	0	0	0	0
Hawaii	172	97	77.2%	83	0	2	6	87	91	0	0
U.S. Total	6,458	6,758	-4.4%	274	171	3,234	3,524	505	539	2,445	2,524

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	288	194	48.4%	21	21	265	169	2	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	188	116	61.3%	0	0	188	116	0	0	0	0
Massachusetts	19	17	13.7%	NM	NM	13	10	1	NM	0	NM
New Hampshire	39	33	19.8%	0	0	39	33	0	0	0	0
Rhode Island	14	NM	NM	0	0	13	NM	1	NM	0	0
Vermont	26	26	2.4%	16	17	11	9	0	0	0	0
Middle Atlantic	666	497	34.1%	0	0	666	496	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	378	278	35.6%	0	0	378	278	0	0	0	NM
Pennsylvania	287	217	32.3%	0	0	287	217	0	0	0	0
East North Central	1,899	1,344	41.3%	207	186	1,686	1,152	NM	NM	NM	NM
Illinois	928	593	56.6%	NM	NM	927	591	NM	NM	0	0
Indiana	355	280	26.8%	0	0	355	280	0	NM	0	0
Michigan	357	302	18.1%	116	126	241	176	0	0	0	0
Ohio	124	76	64.2%	NM	NM	118	70	0	NM	NM	NM
Wisconsin	134	93	44.5%	90	58	44	34	0	0	1	NM
West North Central	5,342	4,197	27.3%	1,739	1,474	3,601	2,721	NM	NM	0	0
Iowa	1,583	1,309	20.9%	1,025	831	557	478	0	NM	0	0
Kansas	1,464	984	48.8%	154	60	1,310	923	0	0	0	0
Minnesota	801	703	13.9%	182	182	616	519	NM	NM	0	0
Missouri	151	66	130.5%	0	0	151	66	0	0	0	0
Nebraska	344	260	32.3%	16	14	328	246	0	0	0	0
North Dakota	798	630	26.7%	300	312	498	318	0	0	0	0
South Dakota	202	246	-18.0%	61	74	141	172	0	0	0	0
South Atlantic	217	126	72.5%	0	0	217	126	0	NM	0	0
Delaware	0	NM	NM	0	0	0	0	0	NM	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	42	34	24.3%	0	0	42	34	0	0	0	0
North Carolina	35	0	--	0	0	35	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	141	92	52.9%	0	0	141	92	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	6,730	5,199	29.5%	133	101	6,594	5,095	3	NM	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	1,879	1,380	36.2%	111	79	1,768	1,300	0	0	0	0
Texas	4,851	3,819	27.0%	22	22	4,826	3,794	3	NM	0	0
Mountain	1,820	1,471	23.7%	180	121	1,639	1,348	NM	NM	0	NM
Arizona	44	46	-3.6%	0	0	44	46	0	0	0	0
Colorado	658	557	18.0%	23	7	634	549	NM	NM	0	NM
Idaho	201	189	6.4%	0	0	201	189	0	0	0	0
Montana	155	149	3.9%	16	15	139	134	0	0	0	0
Nevada	26	31	-16.1%	0	0	26	31	0	0	0	0
New Mexico	338	207	63.1%	0	0	338	207	NM	NM	0	0
Utah	76	81	-6.4%	0	0	76	81	0	0	0	0
Wyoming	322	210	53.2%	141	98	181	112	0	0	0	0
Pacific Contiguous	2,401	3,215	-25.3%	549	644	1,851	2,570	0	NM	1	NM
California	1,078	1,651	-34.7%	93	94	983	1,556	0	NM	1	NM
Oregon	699	785	-10.8%	128	154	571	631	0	0	0	0
Washington	623	779	-20.0%	327	397	296	383	0	0	0	0
Pacific Noncontiguous	61	75	-18.8%	9	8	52	67	0	0	0	0
Alaska	13	12	9.7%	9	8	NM	NM	0	0	0	0
Hawaii	48	63	-24.1%	0	0	48	63	0	0	0	0
U.S. Total	19,429	16,318	19.1%	2,837	2,556	16,576	13,745	10	11	6	NM

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	1,897	1,351	40.4%	139	135	1,742	1,196	16	19	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,278	814	57.0%	0	0	1,278	814	0	0	0	0
Massachusetts	127	121	5.6%	33	33	83	71	12	15	0	NM
New Hampshire	235	241	-2.8%	0	0	235	241	0	0	0	0
Rhode Island	80	6	NM	0	0	76	NM	4	NM	0	0
Vermont	169	162	4.6%	106	102	63	60	0	0	0	0
Middle Atlantic	3,941	3,916	0.6%	0	0	3,940	3,915	0	0	1	NM
New Jersey	11	12	-7.6%	0	0	11	12	0	0	0	0
New York	2,170	2,079	4.4%	0	0	2,169	2,077	0	0	1	NM
Pennsylvania	1,760	1,826	-3.6%	0	0	1,760	1,826	0	0	0	0
East North Central	13,064	12,722	2.7%	1,398	1,495	11,627	11,188	NM	NM	34	33
Illinois	6,400	5,983	7.0%	7	8	6,390	5,972	NM	NM	0	0
Indiana	2,413	2,872	-16.0%	0	0	2,412	2,871	1	NM	0	0
Michigan	2,534	2,365	7.1%	848	971	1,686	1,394	0	0	0	0
Ohio	906	705	28.6%	NM	7	869	665	2	NM	29	29
Wisconsin	811	798	1.7%	537	509	270	285	0	0	4	NM
West North Central	37,201	31,005	20.0%	12,119	10,959	25,065	20,029	18	17	0	0
Iowa	11,244	10,472	7.4%	7,400	6,625	3,842	3,846	2	NM	0	0
Kansas	9,752	7,175	35.9%	926	464	8,827	6,711	0	0	0	0
Minnesota	5,866	5,433	8.0%	1,326	1,401	4,524	4,017	15	16	0	0
Missouri	899	602	49.4%	0	0	899	602	0	0	0	0
Nebraska	2,710	1,871	44.8%	115	99	2,595	1,772	0	0	0	0
North Dakota	5,186	3,882	33.6%	1,865	1,878	3,320	2,004	0	0	0	0
South Dakota	1,544	1,569	-1.6%	487	494	1,057	1,075	0	0	0	0
South Atlantic	1,396	1,028	35.9%	0	0	1,394	1,025	3	NM	0	0
Delaware	3	NM	NM	0	0	0	0	3	NM	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	269	274	-1.9%	0	0	269	274	0	0	0	0
North Carolina	262	0	--	0	0	262	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	863	751	14.9%	0	0	863	751	0	0	0	0
East South Central	20	23	-12.3%	0	0	20	23	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	20	23	-12.3%	0	0	20	23	0	0	0	0
West South Central	49,680	38,811	28.0%	982	817	48,677	37,972	21	22	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	12,973	9,921	30.8%	823	681	12,149	9,240	0	0	0	0
Texas	36,708	28,889	27.1%	159	136	36,528	28,732	21	22	0	0
Mountain	12,523	12,241	2.3%	1,209	1,263	11,305	10,970	NM	NM	2	NM
Arizona	350	287	21.9%	0	0	350	287	0	0	0	0
Colorado	5,068	4,884	3.8%	168	53	4,893	4,824	NM	NM	2	NM
Idaho	1,145	1,313	-12.8%	0	0	1,145	1,313	0	0	0	0
Montana	1,075	1,131	-4.9%	116	118	959	1,012	0	0	0	0
Nevada	204	157	30.1%	0	0	204	157	0	0	0	0
New Mexico	2,110	1,865	13.2%	0	0	2,108	1,863	NM	NM	0	0
Utah	526	351	50.0%	0	0	526	351	0	0	0	0
Wyoming	2,045	2,253	-9.2%	926	1,091	1,119	1,162	0	0	0	0
Pacific Contiguous	14,629	15,106	-3.2%	2,768	3,237	11,855	11,863	4	NM	3	NM
California	7,974	7,222	10.4%	378	316	7,589	6,900	4	NM	3	NM
Oregon	3,104	3,721	-16.6%	487	667	2,617	3,054	0	0	0	0
Washington	3,551	4,163	-14.7%	1,903	2,254	1,649	1,909	0	0	0	0
Pacific Noncontiguous	446	370	20.6%	56	58	390	313	0	0	0	0
Alaska	84	87	-3.5%	56	58	28	29	0	0	0	0
Hawaii	362	283	28.0%	0	0	362	283	0	0	0	0
U.S. Total	134,799	116,573	15.6%	18,670	17,964	116,015	98,492	74	75	39	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 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	588	611	-3.7%	52	63	427	449	15	11	94	87
Connecticut	66	73	-8.7%	0	0	66	73	0	0	0	0
Maine	233	235	-0.8%	0	0	131	139	8	8	94	87
Massachusetts	104	92	12.2%	0	0	101	92	3	0	0	0
New Hampshire	134	146	-7.9%	30	30	100	113	4	NM	0	0
Rhode Island	18	18	-1.2%	0	0	18	18	0	0	0	0
Vermont	34	47	-29.3%	21	33	NM	NM	0	NM	0	0
Middle Atlantic	473	483	-1.9%	0	0	363	377	47	36	63	70
New Jersey	72	82	-12.5%	0	0	59	68	13	14	0	0
New York	197	200	-1.5%	0	0	159	159	21	18	17	23
Pennsylvania	204	201	1.9%	0	0	145	150	14	4	46	47
East North Central	459	453	1.3%	54	51	258	280	18	8	129	115
Illinois	46	48	-4.6%	1	NM	45	47	0	0	0	0
Indiana	32	38	-14.5%	21	26	4	NM	2	NM	NM	6
Michigan	201	197	2.3%	0	0	135	144	12	4	55	49
Ohio	59	64	-8.0%	NM	NM	37	43	1	NM	21	20
Wisconsin	121	107	13.2%	31	23	38	42	NM	NM	48	40
West North Central	220	204	7.8%	44	46	96	93	12	11	68	54
Iowa	13	21	-39.5%	NM	NM	5	11	NM	NM	4	5
Kansas	5	5	-5.8%	0	0	5	5	0	0	0	0
Minnesota	177	156	13.7%	32	33	82	72	NM	2	60	48
Missouri	14	15	-4.1%	NM	NM	NM	NM	6	6	0	NM
Nebraska	8	8	0.3%	6	7	0	0	1	NM	0	0
North Dakota	4	0	--	0	0	0	0	0	0	4	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,515	1,577	-3.9%	155	159	495	524	19	29	845	864
Delaware	NM	6	NM	0	0	NM	5	0	0	NM	NM
District of Columbia	2	0	--	0	0	2	0	0	0	0	0
Florida	372	367	1.3%	7	6	194	197	NM	NM	166	162
Georgia	364	395	-7.8%	0	0	61	62	0	0	303	333
Maryland	42	52	-18.5%	0	0	34	39	NM	NM	7	11
North Carolina	178	210	-15.6%	0	0	96	98	NM	6	81	107
South Carolina	227	200	13.4%	37	37	34	35	0	0	156	128
Virginia	324	345	-6.2%	111	116	68	88	11	19	133	122
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	506	541	-6.4%	5	7	30	31	0	0	471	502
Alabama	258	284	-9.5%	0	0	23	23	0	0	235	261
Kentucky	32	36	-12.5%	5	7	0	NM	0	0	26	28
Mississippi	137	135	1.5%	0	0	NM	NM	0	0	136	133
Tennessee	80	85	-6.0%	0	0	6	7	0	0	74	79
West South Central	486	503	-3.3%	0	1	82	82	3	NM	401	418
Arkansas	129	104	24.5%	0	0	13	6	1	NM	116	97
Louisiana	214	229	-6.4%	0	0	8	8	0	0	207	221
Oklahoma	7	26	-73.7%	0	0	0	NM	0	0	7	25
Texas	136	144	-5.6%	0	1	62	67	3	NM	72	74
Mountain	88	92	-4.4%	NM	NM	52	51	2	NM	34	38
Arizona	NM	18	NM	0	0	NM	18	0	0	0	0
Colorado	13	7	97.3%	0	0	13	7	0	0	0	0
Idaho	46	55	-17.2%	NM	NM	12	17	1	NM	32	36
Montana	2	NM	NM	0	0	0	0	0	0	2	NM
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	6	7	-13.0%	0	0	5	6	1	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	745	752	-0.9%	50	57	413	420	69	70	213	205
California	502	504	-0.3%	8	16	377	375	65	67	52	46
Oregon	81	82	-0.7%	NM	6	31	34	NM	NM	43	40
Washington	162	166	-2.7%	37	35	5	11	NM	NM	118	119
Pacific Noncontiguous	22	28	-19.7%	5	3	0	0	16	21	NM	NM
Alaska	5	4	39.3%	0	0	0	0	4	3	NM	NM
Hawaii	17	24	-28.3%	5	3	0	0	12	18	0	4
U.S. Total	5,103	5,243	-2.7%	366	388	2,216	2,308	203	190	2,318	2,356

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	3,483	3,633	-4.1%	266	302	2,520	2,707	79	59	619	564
Connecticut	382	434	-12.2%	0	0	382	434	0	0	0	0
Maine	1,463	1,458	0.4%	0	0	799	850	45	43	619	564
Massachusetts	576	586	-1.6%	0	0	562	585	14	NM	0	0
New Hampshire	754	804	-6.2%	139	139	596	651	19	14	0	0
Rhode Island	102	104	-2.2%	0	0	102	104	0	0	0	0
Vermont	207	246	-16.1%	126	163	79	82	1	NM	0	0
Middle Atlantic	2,809	2,813	-0.1%	0	0	2,122	2,181	273	261	414	370
New Jersey	461	479	-3.8%	0	0	375	392	86	87	0	0
New York	1,119	1,118	0.1%	0	0	907	907	110	105	103	106
Pennsylvania	1,229	1,216	1.1%	0	0	840	882	77	70	311	264
East North Central	2,748	2,818	-2.5%	330	330	1,566	1,613	107	96	745	779
Illinois	280	284	-1.5%	11	10	269	274	0	0	0	0
Indiana	202	222	-9.1%	131	152	25	27	10	9	35	34
Michigan	1,178	1,208	-2.5%	0	NM	810	814	66	64	302	330
Ohio	365	382	-4.3%	NM	NM	237	248	4	4	119	127
Wisconsin	723	723	0.1%	183	165	225	250	27	20	289	287
West North Central	1,200	1,157	3.8%	255	267	529	546	64	60	352	283
Iowa	78	129	-39.1%	16	14	30	64	12	19	21	32
Kansas	31	38	-17.8%	0	0	30	31	0	0	1	7
Minnesota	954	860	11.0%	178	192	443	424	NM	12	321	233
Missouri	81	71	14.4%	23	20	27	27	30	21	2	NM
Nebraska	48	49	-3.3%	38	41	0	0	10	8	0	0
North Dakota	7	9	-22.7%	0	0	0	0	0	0	7	9
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	9,432	9,232	2.2%	900	861	3,212	3,079	132	182	5,188	5,111
Delaware	36	37	-1.7%	0	0	29	30	0	0	NM	7
District of Columbia	23	0	--	0	0	23	0	0	0	0	0
Florida	2,555	2,270	12.5%	44	47	1,425	1,192	26	26	1,060	1,005
Georgia	2,250	2,266	-0.7%	0	0	333	339	0	4	1,917	1,923
Maryland	254	266	-4.5%	0	0	194	200	NM	13	53	53
North Carolina	1,087	1,193	-8.9%	0	0	567	586	NM	33	498	574
South Carolina	1,327	1,177	12.7%	220	206	195	203	0	0	911	769
Virginia	1,899	2,020	-6.0%	636	608	445	527	77	105	742	780
West Virginia	1	NM	NM	0	0	1	NM	0	0	0	0
East South Central	2,979	3,089	-3.6%	35	43	179	178	0	0	2,765	2,868
Alabama	1,556	1,616	-3.7%	0	0	132	130	0	0	1,424	1,486
Kentucky	197	229	-13.9%	35	43	4	NM	0	0	159	182
Mississippi	747	756	-1.2%	0	0	NM	6	0	0	741	750
Tennessee	479	488	-1.8%	0	0	37	38	0	0	442	450
West South Central	2,925	3,013	-2.9%	0	4	441	475	20	21	2,464	2,512
Arkansas	725	687	5.5%	0	0	51	55	3	NM	670	630
Louisiana	1,293	1,326	-2.5%	0	0	44	47	0	0	1,249	1,279
Oklahoma	115	156	-26.3%	0	0	2	6	0	0	113	150
Texas	792	844	-6.2%	0	4	343	367	17	20	432	453
Mountain	534	545	-1.9%	NM	6	332	308	12	10	184	220
Arizona	108	104	3.9%	0	0	108	104	0	0	0	0
Colorado	83	47	75.7%	0	0	83	47	0	0	0	0
Idaho	273	319	-14.5%	NM	6	87	100	5	4	174	210
Montana	10	11	-4.5%	0	0	0	0	0	0	10	11
Nevada	12	13	-4.8%	0	0	12	13	0	0	0	0
New Mexico	9	9	-4.7%	0	0	9	9	0	0	0	0
Utah	39	42	-6.2%	0	0	33	35	6	6	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,428	4,429	0.0%	339	336	2,457	2,452	412	445	1,220	1,197
California	2,964	2,984	-0.7%	74	103	2,209	2,194	389	427	291	260
Oregon	493	491	0.6%	29	34	194	196	NM	9	256	252
Washington	971	955	1.7%	235	200	54	62	NM	9	673	684
Pacific Noncontiguous	140	188	-25.8%	27	19	0	0	109	119	NM	50
Alaska	22	28	-20.7%	0	0	0	0	19	24	NM	3
Hawaii	118	160	-26.7%	27	19	0	0	90	95	0	47
U.S. Total	30,679	30,917	-0.8%	2,157	2,169	13,360	13,539	1,207	1,255	13,954	13,955

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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, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	353	335	5.1%	21	20	332	316	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	7	8	-2.9%	0	0	7	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	304	287	5.7%	0	0	304	287	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	41	39	4.1%	21	20	20	19	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,014	1,010	0.4%	66	70	948	940	0	0	0	0
California	995	998	-0.3%	66	69	930	929	0	0	0	0
Oregon	18	12	51.9%	0	NM	18	11	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	20	18	10.5%	0	0	20	18	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	20	18	10.5%	0	0	20	18	0	0	0	0
U.S. Total	1,387	1,364	1.7%	87	90	1,300	1,274	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 June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	2,296	2,247	2.2%	135	127	2,161	2,120	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	47	47	-1.6%	0	0	47	47	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,978	1,932	2.4%	0	0	1,978	1,932	0	0	0	0
New Mexico	8	8	-0.8%	0	0	8	8	0	0	0	0
Utah	263	260	1.3%	135	127	128	133	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,332	6,124	3.4%	391	404	5,941	5,720	0	0	0	0
California	6,209	6,023	3.1%	389	396	5,820	5,628	0	0	0	0
Oregon	123	101	21.8%	2	NM	122	93	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	126	111	12.8%	0	0	126	111	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	126	111	12.8%	0	0	126	111	0	0	0	0
U.S. Total	8,753	8,483	3.2%	526	531	8,228	7,952	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 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	373	275	35.8%	140	91	233	184	9	NM	130	87	NM	NM	NM	NM	125	98	10	8	0	0	10	8	99	77
Connecticut	49	36	33.9%	6	NM	43	34	0	NM	5	NM	15	13	0	0	15	13	2	2	0	0	2	2	26	19
Maine	4	3	39.9%	0	0	4	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	275	209	31.9%	116	78	159	131	NM	NM	113	75	NM	NM	NM	NM	98	78	7	7	0	0	7	7	54	46
New Hampshire	9	6	70.4%	0	0	9	6	0	0	0	0	3	2	0	0	3	2	1	0	0	0	1	0	6	4
Rhode Island	NM	4	NM	NM	NM	6	2	0	0	NM	NM	3	1	0	0	3	1	0	0	0	0	0	0	3	1
Vermont	28	17	64.3%	16	NM	12	9	6	NM	9	NM	4	3	0	0	4	3	0	0	0	0	0	0	8	6
Middle Atlantic	556	451	23.3%	184	143	372	308	13	12	146	110	200	185	23	19	177	166	NM	NM	NM	NM	18	16	176	126
New Jersey	350	292	19.9%	147	113	203	178	13	12	111	83	137	135	21	18	116	117	NM	NM	NM	NM	11	9	77	53
New York	155	118	31.2%	26	20	129	98	0	0	25	20	NM	NM	NM	NM	46	36	1	1	0	0	1	1	82	61
Pennsylvania	51	41	24.2%	11	NM	40	31	0	0	9	NM	NM	NM	NM	NM	16	14	NM	NM	NM	NM	6	6	18	11
East North Central	120	72	65.9%	83	46	37	27	29	NM	53	37	NM	NM	NM	NM	23	19	NM	NM	0	NM	NM	NM	12	7
Illinois	13	11	25.3%	7	NM	6	4	0	NM	7	NM	4	3	0	0	4	3	NM	0	0	0	NM	0	2	1
Indiana	46	29	57.8%	44	28	3	2	15	NM	29	24	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Michigan	NM	7	NM	13	NM	NM	5	13	NM	0	0	5	3	0	0	5	3	NM	NM	0	0	NM	NM	3	1
Ohio	30	22	39.1%	16	NM	15	12	NM	NM	14	NM	NM	NM	NM	NM	11	10	NM	NM	0	NM	NM	1	3	2
Wisconsin	NM	4	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	2
West North Central	136	35	283.1%	98	NM	37	29	NM	0	96	NM	20	NM	0	NM	20	16	1	0	0	0	1	0	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	2	1	36.0%	0	NM	1	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Minnesota	95	5	NM	89	NM	6	4	NM	0	89	NM	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Missouri	27	22	23.5%	6	NM	21	18	0	0	6	NM	11	NM	0	NM	11	10	0	0	0	0	0	0	9	8
Nebraska	NM	1	NM	NM	NM	0	0	0	0	NM	NM	NM	NM	0	0	NM	NM	NM	NM	0	0	NM	NM	0	0
North Dakota	0	0	13.1%	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	1,269	670	89.4%	1,061	521	208	149	149	41	896	465	94	99	17	15	78	84	25	5	0	0	25	5	106	60
Delaware	22	18	20.2%	7	NM	15	12	NM	NM	6	NM	NM	NM	NM	NM	8	7	1	0	0	0	1	0	6	4
District of Columbia	8	5	40.6%	0	0	8	5	0	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	2	2
Florida	92	40	127.4%	65	18	27	22	50	9	15	NM	NM	NM	NM	NM	9	12	1	1	0	0	1	1	17	10
Georgia	NM	86	NM	234	69	NM	NM	27	8	207	61	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	130	97	34.2%	33	26	97	70	NM	NM	31	25	NM	NM	NM	NM	33	31	4	4	0	0	4	4	60	35
North Carolina	696	415	67.7%	676	399	20	16	54	21	608	365	28	25	15	13	14	12	1	0	0	0	1	0	5	4
South Carolina	21	3	594.0%	8	NM	14	3	0	0	8	NM	4	1	0	0	4	1	NM	0	0	0	NM	0	9	2
Virginia	45	5	795.0%	37	NM	7	4	16	NM	22	0	3	2	0	0	3	2	NM	NM	0	0	NM	NM	4	2
West Virginia	1	1	28.1%	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	57	21	172.4%	45	12	13	9	5	2	39	NM	NM	NM	NM	NM	10	9	NM	0	0	0	NM	0	3	1
Alabama	NM	0	NM	22	0	NM	0	NM	0	20	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	5	4	18.8%	2	2	3	2	2	2	0	0	2	1	0	0	2	1	0	0	0	0	0	0	1	0
Mississippi	NM	0	NM	NM	0	1	0	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Tennessee	26	16	60.2%	17	NM	9	7	0	0	16	NM	NM	NM	NM	NM	7	7	0	0	0	0	0	0	1	0
West South Central	340	127	168.2%	250	72	90	55	NM	NM	248	71	26	NM	0	NM	26	15	NM	0	0	0	NM	0	64	40
Arkansas	4	4	5.3%	3	NM	1	1	NM	NM	3	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	21	19	10.5%	0	0	21	19	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	19	18
Oklahoma	3	1	177.7%	1	1	2	1	1	1	0	0	1	0	0	0	1	0	NM	0	0	0	NM	0	1	0
Texas	312	103	203.1%	246	68	66	34	NM	0	245	68	23	NM	0	NM	23	13	0	0	0	0	0	0	43	21
Mountain	1,729	983	75.8%	1,416	703	313	281	108	86	1,294	605	89	105	14	12	76	93	16	NM	0	NM	16	18	221	170
Arizona	642	464	38.3%	465	304	177	160	74	56	388	246	NM	NM	NM	NM	43	50	13	15	0	0	13	15	121	94
Colorado	163	98	66.7%	108	49	55	49	0	0	106	47	NM	NM	NM	NM	22	20	0	0	0	0	0	0	33	28
Idaho	65	1	NM	64	0	2	1	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	NM	1	NM	NM	0	2	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	446	268	66.4%	410	229	36	39	5	NM	396	217	12	NM	9	NM	3	9	2	NM	0	NM	2	2	31	27
New Mexico	148	90	65.4%	136	74	13	16	29	26	107	48	1	7	0	0	1	7	0	0	0	0	0	0	12	8
Utah	261	62	323.4%	232	47	29	15	0	0	232	47	6	4	0	0	6	4	1	1	0	0	1	1	22	10
Wyoming	0	0	32.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	3,638	2,478	46.8%	2,511	1,596	1,127	882	67	56	2,423	1,525	257	213	16	14	241	200	NM	NM	NM	NM	181	133	705	549
California	3,578	2,449	46.1%	2,485	1,591	1,093	858	66	55	2,398	1,521	246	206	16	14	230	193	NM	NM	NM	NM	180	133	684	533
Oregon	47	18	158.0%	26	NM	21	13	NM	NM	25	NM	9	6	0	0	9	6	2	1	0	0	2	1	10	7
Washington	13	10	27.3%	0	0	13	10	0	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	11	9
Pacific Noncontiguous	113	78	46.2%	21	NM	93	68	4	NM	16	NM	35	23	0	0	35	23	0	0	0	0	0	0	57	45
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	113	78	45.9%	21	NM	93	68	4	NM	16	NM	35	23	0	0	35	23	0	0	0	0	0	0	57	45
U.S. Total	8,332	5,190	60.5%	5,807	3,198	2,524	1,991	387	213	5,341	2,920	882	785	72	62	811	723	262	NM	8	NM	254	183	1,460	1,086

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

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	1,634	1,248	30.9%	526	384	1,108	864	36	11	487	370	625	488	3	NM	622	484	49	41	0	0	49	41	438	339
Connecticut	226	167	35.6%	22	12	204	155	2	NM	21	10	80	63	0	0	80	63	11	7	0	0	11	7	113	85
Maine	20	15	37.1%	0	0	20	15	0	0	0	0	7	5	0	0	7	5	0	0	0	0	0	0	13	9
Massachusetts	1,189	948	25.5%	430	330	759	618	7	7	420	319	490	391	3	NM	486	388	35	32	0	0	35	32	238	198
New Hampshire	45	25	78.1%	0	0	45	25	0	0	0	0	15	8	0	0	15	8	3	1	0	0	3	1	27	17
Rhode Island	33	20	68.4%	9	9	24	10	0	0	9	9	12	7	0	0	12	7	0	0	0	0	0	0	12	3
Vermont	121	74	63.1%	64	34	57	41	27	NM	37	31	22	14	0	0	22	14	0	0	0	0	0	0	35	27
Middle Atlantic	2,487	2,056	21.0%	721	600	1,767	1,456	52	53	571	462	982	899	88	78	894	821	102	89	10	6	92	83	780	552
New Jersey	1,562	1,341	16.5%	573	480	989	861	52	53	434	351	681	658	82	74	599	584	59	46	NM	NM	54	44	336	232
New York	689	524	31.5%	107	82	583	442	0	0	104	81	219	171	NM	NM	216	169	7	7	0	0	7	7	360	266
Pennsylvania	236	191	23.5%	41	38	195	153	0	0	33	31	82	70	NM	NM	79	68	37	36	5	NM	32	31	84	54
East North Central	470	317	48.4%	307	197	163	120	95	33	209	160	102	86	NM	NM	100	85	10	6	1	NM	10	3	54	32
Illinois	52	46	13.4%	27	28	25	18	1	NM	26	26	14	13	0	0	14	13	0	0	0	0	0	0	11	5
Indiana	191	131	46.5%	179	124	12	7	63	20	116	104	6	3	0	0	6	3	1	0	0	0	1	0	6	4
Michigan	60	29	104.3%	26	NM	34	23	26	NM	0	0	21	16	0	0	21	16	1	0	0	0	1	0	13	6
Ohio	130	94	38.7%	64	38	66	55	5	NM	57	29	51	45	NM	NM	49	43	4	5	1	NM	3	2	14	10
Wisconsin	37	18	111.8%	11	NM	26	17	0	0	11	NM	10	9	0	0	10	9	5	1	0	0	5	1	11	7
West North Central	519	160	224.9%	345	24	174	135	NM	0	338	23	96	78	1	NM	95	77	4	2	0	0	4	2	75	57
Iowa	42	27	53.3%	NM	0	39	27	NM	0	0	0	26	18	0	0	26	18	1	1	0	0	1	1	11	8
Kansas	8	6	28.6%	1	NM	7	5	0	0	1	NM	2	2	0	0	2	2	0	0	0	0	0	0	4	2
Minnesota	333	23	NM	308	NM	26	18	NM	0	305	NM	11	9	0	0	11	9	2	1	0	0	2	1	12	8
Missouri	126	101	25.0%	26	17	100	84	1	0	24	15	55	48	1	NM	54	47	1	0	0	0	1	0	46	37
Nebraska	9	2	298.4%	6	NM	2	1	0	0	6	NM	1	0	0	0	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	12.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	0	279.0%	NM	0	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	5,547	3,108	78.5%	4,550	2,389	996	719	750	216	3,734	2,106	482	501	67	67	415	434	110	24	0	0	110	24	471	261
Delaware	98	84	15.9%	28	27	70	58	NM	NM	24	23	40	38	NM	NM	39	37	3	2	0	0	3	2	28	18
District of Columbia	38	25	48.5%	0	0	38	25	0	0	0	0	27	18	0	0	27	18	0	0	0	0	0	0	11	8
Florida	510	206	147.5%	363	82	147	124	318	46	43	35	55	67	NM	NM	53	66	4	3	0	0	4	3	90	55
Georgia	1,196	410	191.7%	1,087	322	109	88	139	36	946	284	26	86	NM	NM	24	85	78	1	0	0	78	1	7	3
Maryland	570	431	32.3%	138	121	432	310	NM	NM	130	113	173	158	NM	NM	170	155	19	17	0	0	19	17	243	138
North Carolina	2,852	1,913	49.1%	2,752	1,832	100	81	218	123	2,474	1,649	131	122	60	61	71	61	2	2	0	0	2	2	26	18
South Carolina	84	12	606.1%	23	NM	61	10	0	0	23	NM	14	2	0	0	14	2	3	0	0	0	3	0	43	7
Virginia	195	24	725.7%	160	NM	36	21	67	NM	93	0	16	9	0	0	16	9	0	0	0	0	0	0	20	12
West Virginia	4	3	28.1%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
East South Central	243	88	175.2%	178	42	65	46	17	2	159	39	51	45	NM	NM	48	43	0	0	0	0	0	0	17	2
Alabama	96	2	NM	93	0	3	2	8	0	86	0	2	2	0	0	2	2	0	0	0	0	0	0	1	0
Kentucky	20	11	84.8%	9	2	11	9	9	2	0	0	7	7	0	0	7	7	0	0	0	0	0	0	4	2
Mississippi	21	3	714.6%	7	0	14	3	0	0	7	0	5	2	0	0	5	2	0	0	0	0	0	0	9	0
Tennessee	106	73	45.0%	69	40	37	33	0	0	66	39	36	34	NM	NM	34	33	0	0	0	0	0	0	3	0
West South Central	1,434	612	134.5%	1,002	345	432	267	5	4	995	340	122	77	1	NM	121	76	1	0	0	0	1	0	311	191
Arkansas	19	19	4.8%	15	15	5	3	NM	NM	14	14	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Louisiana	109	97	12.3%	0	0	109	97	0	0	0	0	7	6	0	0	7	6	0	0	0	0	0	0	102	91
Oklahoma	14	5	149.3%	3	3	11	3	3	3	0	0	5	1	0	0	5	1	1	0	0	0	1	0	5	1
Texas	1,292	491	163.3%	984	327	308	164	NM	0	982	326	108	68	1	NM	107	67	0	0	0	0	0	0	201	97
Mountain	7,744	4,850	59.7%	6,150	3,435	1,594	1,415	458	407	5,635	2,970	493	548	57	57	436	491	90	103	0	NM	90	102	1,068	823
Arizona	2,979	2,401	24.1%	2,057	1,559	922	842	313	263	1,733	1,286	265	287	11	11	255	277	73	85	0	0	73	85	595	480
Colorado	725	453	60.2%	459	217	266	235	0	0	452	210	116	111	7	7	108	104	1	1	0	0	1	1	156	130
Idaho	234	4	NM	227	0	7	4	0	0	227	0	2	2	0	0	2	2	0	0	0	0	0	0	5	3
Montana	9	5	74.7%	NM	0	7	5	0	0	NM	0	2	2	0	0	2	2	0	0	0	0	0	0	5	4
Nevada	1,996	1,266	57.6%	1,820	1,085	176	182	22	18	1,759	1,026	57	87	39	39	18	48	12	13	0	NM	12	12	147	123
New Mexico	663	452	46.5%	580	368	82	84	123	126	457	242	21	40	0	0	21	40	0	0	0	0	0	0	61	44
Utah	1,136	267	325.5%	1,005	205	131	62	0	0	1,005	205	30	20	0	0	30	20	4	3	0	0	4	3	98	39
Wyoming	2	2	28.2%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Pacific Contiguous	15,878	11,828	34.2%	10,594	7,719	5,283	4,109	269	257	10,252	7,394	1,249	1,018	65	63	1,184	955	851	634	9	NM	843	629	3,256	2,525
California	15,628	11,709	33.5%	10,483	7,697	5,145	4,013	266	253	10,144	7,375	1,204	989	65	63	1,140	926	845	631	9	NM	837	626	3,169	2,460
Oregon	195	76	155.3%	111	22	83	54	NM	NM	108	19	36	22	0	0	36	22	6	2	0	0	6	2	41	29
Washington	55	43	27.9%	0	0	55	43	0	0	0	0	9	6	0	0	9	6	0	0	0	0	0	0	46	36
Pacific Noncontiguous	548	401	36.8%	75	41	474	360	22	24	53	17	173	122	0	0	173	122	1	1	0	0	1	1	299	237
Alaska	1	0	--	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Hawaii	547	401	36.5%	75	41	473	360	22	24	53	17	173	122	0	0	173	122	1	1	0	0	1	1	299	237
U.S. Total	36,504	24,668	48.0%	24,447	15,176	12,057	9,492	1,710	1,007	22,432	13,880	4,375	3,862	286	274	4,089	3,588	1,218	899	19	16	1,199	884	6,769	5,020

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

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, June 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	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	1	10	-88.2%	1	10	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	1	10	-88.2%	1	10	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	136	113	19.9%	0	0	136	113	0	0	0	0
Arizona	116	89	30.3%	0	0	116	89	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	20	24	-18.2%	0	0	20	24	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	328	289	13.5%	0	0	328	289	0	0	0	0
California	328	289	13.5%	0	0	328	289	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	465	412	12.9%	1	10	464	402	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	2	48	-96.2%	2	48	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	2	48	-96.2%	2	48	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	495	455	8.8%	0	0	495	455	0	0	0	0
Arizona	429	357	20.1%	0	0	429	357	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	67	98	-32.1%	0	0	67	98	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	1,202	1,154	4.2%	0	0	1,202	1,154	0	0	0	0
California	1,202	1,154	4.2%	0	0	1,202	1,154	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,699	1,658	2.5%	2	48	1,698	1,609	0	0	0	0

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

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2007-June 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	678,005	498,170	176,311	148	3,376
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	62,048	45,567	16,149	14	319
February	50,567	37,652	12,604	15	296
March	39,857	31,044	8,495	14	304
April	38,989	28,663	10,062	11	254
May	45,036	33,834	10,933	9	260
June	63,326	46,363	16,644	10	310
July	74,241	54,196	19,706	11	328
August	73,868	53,927	19,600	12	330
Sept	62,428	44,869	17,280	12	267
October	54,634	39,517	14,858	13	246
November	48,126	35,274	12,624	13	215
December	64,883	47,265	17,356	15	249
Year 2017					
January	63,542	46,896	16,329	16	300
February	48,155	35,793	12,083	12	267
March	48,915	35,948	12,697	12	259
April	44,455	31,772	12,449	8	225
May	51,082	37,683	13,142	8	249
June	59,206	44,127	14,801	8	270
Year to Date					
2015	371,565	270,247	99,237	90	1,991
2016	299,824	223,122	74,887	73	1,742
2017	315,355	232,220	81,501	65	1,570
Rolling 12 Months Ending in June					
2016	667,853	492,381	171,576	146	3,750
2017	693,536	507,267	182,926	139	3,204

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 2015 and prior years are final. Values for 2016 and 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-June 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	14,264	1,061	1,733	544	10,926
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	1,500	103	152	62	1,184
February	1,393	90	141	63	1,099
March	1,376	108	142	61	1,065
April	1,049	89	170	39	752
May	1,135	81	135	31	889
June	1,175	81	155	36	902
July	1,176	83	151	35	906
August	1,173	90	141	39	904
Sept	1,040	77	140	37	786
October	1,009	76	149	37	747
November	1,036	84	120	48	784
December	1,201	99	138	57	907
Year 2017					
January	1,285	111	140	46	987
February	1,075	97	122	38	818
March	1,184	102	155	43	884
April	1,048	87	132	29	799
May	1,064	82	131	28	823
June	1,028	76	105	34	813
Year to Date					
2015	8,606	526	1,021	353	6,706
2016	7,629	552	894	291	5,892
2017	6,683	556	785	218	5,124
Rolling 12 Months Ending in June					
2016	15,655	1,057	1,853	573	12,172
2017	13,318	1,066	1,624	471	10,158

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 2015 and prior years are final. Values for 2016 and 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-June 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	692,269	499,231	178,044	692	14,302
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	63,549	45,669	16,301	76	1,503
February	51,960	37,742	12,745	78	1,395
March	41,233	31,151	8,636	75	1,370
April	40,039	28,752	10,232	49	1,006
May	46,171	33,915	11,068	40	1,149
June	64,502	46,444	16,799	46	1,212
July	75,416	54,279	19,857	46	1,234
August	75,041	54,017	19,740	50	1,234
Sept	63,469	44,946	17,420	49	1,053
October	55,643	39,594	15,007	50	993
November	49,162	35,358	12,744	61	998
December	66,084	47,364	17,494	71	1,155
Year 2017					
January	64,827	47,008	16,469	62	1,288
February	49,230	35,890	12,204	50	1,085
March	50,099	36,050	12,851	55	1,143
April	45,502	31,860	12,582	37	1,024
May	52,146	37,765	13,274	36	1,071
June	60,235	44,203	14,906	42	1,083
Year to Date					
2015	380,171	270,773	100,258	442	8,697
2016	307,453	223,674	75,781	364	7,634
2017	322,038	232,776	82,286	282	6,694
Rolling 12 Months Ending in June					
2016	683,508	493,438	173,429	720	15,922
2017	706,854	508,333	184,549	610	13,362

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 2015 and prior years are final. Values for 2016 and 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-June 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	21,225	15,668	4,841	132	584
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	2,330	1,681	589	12	48
February	2,111	1,405	645	14	47
March	1,367	1,045	284	NM	31
April	1,319	1,016	262	10	31
May	1,565	1,173	325	11	56
June	1,577	1,242	281	9	44
July	2,205	1,677	461	11	57
August	2,195	1,630	498	15	52
Sept	1,532	1,112	370	10	41
October	1,566	1,140	352	11	64
November	1,560	1,198	305	11	46
December	1,899	1,350	470	13	67
Year 2017					
January	1,981	1,492	411	29	48
February	1,558	1,180	322	15	41
March	1,652	1,341	249	21	42
April	1,487	1,213	224	14	37
May	1,699	1,306	338	15	39
June	1,670	1,286	330	14	40
Year to Date					
2015	18,632	10,715	7,346	186	385
2016	10,268	7,562	2,386	62	258
2017	10,047	7,819	1,874	109	246
Rolling 12 Months Ending in June					
2016	20,561	15,410	4,514	NM	514
2017	21,005	15,925	4,329	179	572

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 2015 and prior years are final. Values for 2016 and 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-June 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	2,534	19	1,014	126	1,374
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	244	4	84	16	140
February	223	7	68	16	132
March	183	0	89	NM	87
April	180	1	79	10	91
May	209	0	86	9	114
June	197	2	78	8	109
July	239	0	87	11	140
August	233	0	94	10	129
Sept	186	1	88	9	89
October	231	0	89	9	133
November	184	0	78	8	97
December	225	2	95	13	115
Year 2017					
January	251	4	100	30	117
February	175	4	70	24	77
March	162	1	47	25	89
April	198	0	82	12	104
May	215	0	83	19	113
June	210	1	91	14	104
Year to Date					
2015	1,870	57	603	234	977
2016	1,236	15	483	65	672
2017	1,211	11	473	124	603
Rolling 12 Months Ending in June					
2016	2,508	21	1,036	NM	1,338
2017	2,509	15	1,004	185	1,305

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Petroleum 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-June 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	23,760	15,687	5,855	258	1,959
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	2,574	1,685	673	28	188
February	2,334	1,412	713	30	179
March	1,549	1,045	373	NM	118
April	1,499	1,017	341	20	121
May	1,773	1,173	410	20	170
June	1,774	1,245	359	17	153
July	2,444	1,677	548	22	197
August	2,428	1,630	592	25	181
Sept	1,718	1,112	458	18	130
October	1,797	1,140	441	20	196
November	1,744	1,198	384	19	143
December	2,125	1,352	565	26	182
Year 2017					
January	2,233	1,496	512	59	165
February	1,733	1,185	392	39	117
March	1,814	1,341	296	46	131
April	1,686	1,214	306	26	140
May	1,914	1,307	421	35	151
June	1,880	1,287	421	28	144
Year to Date					
2015	20,502	10,771	7,949	420	1,361
2016	11,504	7,578	2,869	127	930
2017	11,259	7,830	2,347	233	849
Rolling 12 Months Ending in June					
2016	23,070	15,431	5,549	NM	1,852
2017	23,514	15,939	5,333	364	1,878

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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-June 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	4,275	3,431	600	1	243
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	341	302	17	0	22
February	329	272	39	0	17
March	366	283	63	0	20
April	390	326	43	0	21
May	371	296	52	0	23
June	382	308	52	0	22
July	403	325	56	0	22
August	422	337	62	0	23
Sept	383	311	50	0	22
October	246	172	62	0	13
November	304	240	47	0	18
December	337	261	56	0	21
Year 2017					
January	362	301	44	0	16
February	266	217	36	0	13
March	276	215	43	0	19
April	154	110	32	0	12
May	321	264	41	0	15
June	344	283	42	0	19
Year to Date					
2015	2,035	1,545	346	1	144
2016	2,179	1,786	268	1	125
2017	1,723	1,390	238	1	94
Rolling 12 Months Ending in June					
2016	4,188	3,360	591	2	235
2017	3,819	3,035	571	1	212

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-June 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	1,016	2	105	9	900
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	79	0	10	2	66
February	87	0	9	2	76
March	108	0	10	2	96
April	71	0	6	0	64
May	74	0	6	0	67
June	79	0	8	0	71
July	85	0	8	1	76
August	84	0	9	0	75
Sept	65	0	9	0	56
October	112	0	10	0	102
November	77	0	9	0	68
December	95	0	10	2	84
Year 2017					
January	74	0	9	2	63
February	66	0	9	1	56
March	87	0	10	2	75
April	74	0	9	1	65
May	82	0	10	1	72
June	95	0	9	1	85
Year to Date					
2015	603	5	55	8	535
2016	498	1	50	6	441
2017	479	2	55	7	416
Rolling 12 Months Ending in June					
2016	1,040	5	104	15	916
2017	997	2	110	10	875

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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-June 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	5,291	3,433	705	10	1,144
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	420	302	27	3	89
February	416	272	49	2	93
March	474	283	74	2	116
April	461	326	50	0	85
May	445	296	58	0	90
June	461	308	60	0	93
July	488	325	65	1	98
August	506	337	71	0	98
Sept	448	311	59	0	78
October	359	172	72	0	115
November	381	240	56	0	85
December	433	261	65	2	104
Year 2017					
January	436	301	53	2	79
February	332	218	45	1	69
March	363	215	52	2	94
April	229	110	42	1	76
May	403	265	51	1	87
June	439	283	51	1	104
Year to Date					
2015	2,638	1,550	400	9	679
2016	2,677	1,787	317	7	566
2017	2,202	1,392	294	8	509
Rolling 12 Months Ending in June					
2016	5,228	3,366	695	16	1,150
2017	4,817	3,038	681	11	1,087

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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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-June 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	10,400,189	5,045,514	4,642,081	68,639	643,955
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	803,496	390,470	353,701	5,845	53,480
February	716,939	352,730	309,115	5,032	50,062
March	775,091	379,524	337,795	5,413	52,359
April	753,775	364,603	333,632	5,304	50,236
May	839,337	409,691	371,145	5,604	52,897
June	1,006,981	501,185	445,296	6,087	54,412
July	1,179,364	576,840	538,874	6,656	56,994
August	1,191,376	573,095	554,337	6,741	57,203
Sept	951,076	454,440	436,438	5,961	54,237
October	775,622	368,496	350,464	5,153	51,510
November	700,757	332,274	308,648	5,332	54,504
December	706,376	342,166	302,636	5,512	56,061
Year 2017					
January	677,545	327,650	287,333	6,139	56,424
February	584,745	280,771	248,451	5,433	50,090
March	700,918	345,125	297,948	6,008	51,837
April	648,063	324,099	268,328	4,883	50,753
May	732,044	371,446	305,026	5,164	50,407
June	870,727	430,843	381,584	5,712	52,588
Year to Date					
2015	4,538,249	2,164,993	2,045,910	31,664	295,681
2016	4,895,619	2,398,205	2,150,684	33,284	313,446
2017	4,214,043	2,079,934	1,788,671	33,340	312,098
Rolling 12 Months Ending in June					
2016	10,373,945	4,978,466	4,681,457	71,712	642,309
2017	9,718,614	4,727,244	4,280,068	68,695	642,607

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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2007-June 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	956,923	11,227	284,704	47,946	613,046
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	85,090	1,163	25,628	4,555	53,744
February	78,278	1,068	23,422	4,216	49,573
March	80,136	959	24,327	4,160	50,691
April	76,781	700	22,327	4,001	49,753
May	77,892	864	24,001	3,652	49,374
June	77,871	909	23,951	3,613	49,398
July	81,911	983	25,464	4,134	51,329
August	83,318	956	26,205	4,159	51,998
Sept	77,778	867	23,163	3,748	50,000
October	76,549	702	21,699	3,603	50,546
November	77,442	860	21,756	3,798	51,027
December	83,877	1,194	22,761	4,307	55,614
Year 2017					
January	86,570	1,164	22,966	5,166	57,274
February	77,792	872	20,183	4,382	52,356
March	84,133	841	23,209	4,285	55,797
April	77,370	758	20,709	3,634	52,269
May	77,118	685	19,971	3,678	52,784
June	76,992	685	21,032	3,934	51,342
Year to Date					
2015	453,209	3,524	139,207	22,446	288,032
2016	476,048	5,664	143,656	24,197	302,532
2017	479,975	5,005	128,070	25,079	321,821
Rolling 12 Months Ending in June					
2016	957,937	10,200	287,820	48,038	611,880
2017	960,851	10,568	269,118	48,829	632,335

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-June 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	11,357,113	5,056,741	4,926,785	116,586	1,257,001
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	888,586	391,633	379,329	10,400	107,224
February	795,217	353,798	332,537	9,248	99,635
March	855,227	380,483	362,122	9,572	103,049
April	830,556	365,304	355,959	9,304	99,989
May	917,229	410,556	395,146	9,256	102,271
June	1,084,852	502,095	469,247	9,700	103,810
July	1,261,274	577,823	564,338	10,790	108,323
August	1,274,694	574,051	580,542	10,901	109,201
Sept	1,028,854	455,308	459,601	9,708	104,238
October	852,172	369,198	372,162	8,756	102,055
November	778,199	333,134	330,404	9,130	105,531
December	790,252	343,360	325,397	9,820	111,675
Year 2017					
January	764,115	328,814	310,298	11,305	113,697
February	662,537	281,643	268,634	9,815	102,446
March	785,050	345,965	321,158	10,293	107,634
April	725,434	324,857	289,038	8,517	103,021
May	809,162	372,131	324,997	8,843	103,191
June	947,720	431,528	402,616	9,646	103,930
Year to Date					
2015	4,991,458	2,168,517	2,185,118	54,110	583,713
2016	5,371,667	2,403,868	2,294,340	57,481	615,978
2017	4,694,018	2,084,939	1,916,741	58,419	633,919
Rolling 12 Months Ending in June					
2016	11,331,882	4,988,666	4,969,277	119,750	1,254,189
2017	10,679,464	4,737,812	4,549,186	117,524	1,274,942

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

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2007-June 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	329,517	30,505	268,432	25,339	5,241
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	28,779	2,572	23,258	2,481	467
February	26,323	2,469	21,261	2,183	410
March	26,918	2,473	21,197	2,724	524
April	27,153	2,585	22,247	1,867	454
May	27,948	2,606	22,797	2,071	473
June	26,392	2,389	21,901	1,729	372
July	27,016	2,395	22,290	1,916	415
August	28,815	2,711	23,770	1,924	410
Sept	26,511	2,506	21,856	1,769	382
October	28,975	2,862	23,249	2,417	447
November	26,381	2,417	21,441	2,091	433
December	28,306	2,521	23,165	2,166	455
Year 2017					
January	23,956	2,224	19,472	1,824	436
February	21,544	2,079	17,540	1,515	410
March	22,843	2,079	18,648	1,671	444
April	21,217	1,968	17,415	1,431	403
May	21,884	2,113	17,923	1,489	360
June	21,851	1,836	18,015	1,588	411
Year to Date					
2015	135,412	12,536	108,185	12,499	2,192
2016	163,513	15,094	132,662	13,057	2,700
2017	133,295	12,298	109,012	9,519	2,465
Rolling 12 Months Ending in June					
2016	310,630	27,815	251,858	25,808	5,150
2017	299,299	27,709	244,783	21,801	5,006

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-June 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	4,232	5	2,381	968	879
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	400	0	221	98	81
February	406	1	231	90	85
March	597	0	335	133	129
April	471	1	268	100	103
May	289	0	155	71	63
June	161	0	108	30	22
July	242	0	150	50	42
August	207	1	121	50	36
Sept	148	0	85	40	23
October	499	2	264	124	109
November	395	0	214	90	90
December	418	0	230	93	96
Year 2017					
January	243	0	159	46	38
February	206	0	134	40	32
March	224	1	139	49	35
April	237	0	104	97	36
May	173	0	97	46	29
June	255	0	185	45	24
Year to Date					
2015	710	1	270	265	175
2016	2,323	2	1,317	521	483
2017	1,339	2	819	324	195
Rolling 12 Months Ending in June					
2016	3,135	3	1,691	771	670
2017	3,248	5	1,882	770	591

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-June 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	333,749	30,510	270,813	26,306	6,120
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	29,179	2,573	23,479	2,579	548
February	26,729	2,469	21,492	2,273	494
March	27,515	2,473	21,532	2,858	652
April	27,624	2,586	22,514	1,967	557
May	28,236	2,606	22,952	2,142	536
June	26,553	2,390	22,009	1,759	395
July	27,258	2,395	22,439	1,966	457
August	29,022	2,711	23,891	1,974	446
Sept	26,660	2,506	21,941	1,808	405
October	29,474	2,864	23,513	2,541	556
November	26,776	2,417	21,655	2,182	523
December	28,724	2,521	23,395	2,259	551
Year 2017					
January	24,199	2,224	19,631	1,870	474
February	21,750	2,079	17,674	1,555	442
March	23,066	2,080	18,787	1,720	480
April	21,454	1,968	17,519	1,528	439
May	22,057	2,113	18,020	1,535	389
June	22,106	1,836	18,201	1,634	435
Year to Date					
2015	136,122	12,537	108,455	12,764	2,367
2016	165,836	15,096	133,979	13,578	3,183
2017	134,633	12,300	109,831	9,842	2,660
Rolling 12 Months Ending in June					
2016	313,765	27,818	253,549	26,579	5,820
2017	302,547	27,714	246,665	22,571	5,597

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 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2007-June 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	16,067	464	13,356	2,240	8
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	1,341	34	1,123	183	1
February	1,215	27	1,030	157	1
March	1,270	41	1,018	209	1
April	1,370	40	1,133	196	1
May	1,382	44	1,157	182	1
June	1,383	40	1,157	186	0
July	1,404	37	1,163	203	1
August	1,427	42	1,190	195	0
Sept	1,311	43	1,093	175	0
October	1,260	37	1,043	179	1
November	1,294	39	1,069	184	0
December	1,409	38	1,180	190	1
Year 2017					
January	1,437	35	1,207	195	0
February	1,244	19	1,045	180	0
March	1,324	36	1,097	192	0
April	1,289	35	1,058	196	0
May	1,408	36	1,158	213	1
June	1,419	38	1,186	194	1
Year to Date					
2015	7,969	212	6,602	1,151	3
2016	7,962	226	6,617	1,114	5
2017	8,121	198	6,750	1,170	2
Rolling 12 Months Ending in June					
2016	16,624	466	13,811	2,337	9
2017	16,225	435	13,489	2,296	5

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 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-June 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	1,974	0	658	1,149	167
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	164	0	62	89	13
February	169	0	72	84	13
March	198	0	80	103	15
April	165	0	51	100	14
May	157	0	48	95	14
June	160	0	51	94	16
July	175	0	53	106	16
August	162	0	49	100	14
Sept	151	0	45	94	13
October	142	0	46	86	10
November	161	0	51	96	14
December	170	0	52	103	15
Year 2017					
January	197	0	55	122	20
February	167	0	49	105	12
March	188	0	63	105	19
April	168	0	55	96	18
May	172	0	51	103	18
June	174	0	53	105	16
Year to Date					
2015	980	0	323	555	102
2016	1,013	0	364	565	84
2017	1,066	0	325	638	103
Rolling 12 Months Ending in June					
2016	2,019	0	696	1,137	186
2017	2,027	0	620	1,221	186

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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-June 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	18,041	464	14,014	3,389	174
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	1,505	34	1,185	272	14
February	1,383	27	1,102	241	14
March	1,468	41	1,098	312	16
April	1,536	40	1,184	297	15
May	1,539	44	1,205	277	14
June	1,544	40	1,207	280	16
July	1,579	37	1,216	309	17
August	1,590	42	1,239	294	15
Sept	1,462	43	1,138	269	13
October	1,402	37	1,089	265	11
November	1,455	39	1,120	281	15
December	1,578	38	1,231	293	16
Year 2017					
January	1,634	35	1,262	317	20
February	1,410	19	1,094	286	12
March	1,512	36	1,160	297	19
April	1,457	35	1,112	292	18
May	1,580	36	1,209	317	19
June	1,593	38	1,239	299	17
Year to Date					
2015	8,949	212	6,925	1,707	105
2016	8,975	226	6,981	1,679	89
2017	9,186	198	7,075	1,808	105
Rolling 12 Months Ending in June					
2016	18,642	466	14,508	3,474	195
2017	18,252	435	14,108	3,517	191

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 2015 and prior years are final. Values for 2016 and 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 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2007-June 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	381,618	43,107	153,271	672	184,569
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	34,287	4,250	13,946	62	16,028
February	32,746	3,992	13,892	58	14,803
March	32,635	3,528	13,931	26	15,150
April	27,119	2,672	10,235	42	14,171
May	29,056	2,739	10,908	19	15,391
June	32,206	3,928	12,661	80	15,537
July	34,444	4,286	14,099	70	15,990
August	34,893	4,290	14,544	120	15,939
Sept	31,815	3,558	13,060	67	15,131
October	28,597	2,676	10,881	37	15,003
November	29,901	2,839	11,531	30	15,500
December	33,919	4,349	13,583	61	15,926
Year 2017					
January	32,399	3,603	12,806	78	15,912
February	30,715	3,162	12,417	66	15,069
March	32,946	4,066	13,687	31	15,161
April	30,033	2,964	12,319	42	14,708
May	31,074	3,236	13,092	58	14,687
June	31,355	3,585	12,562	52	15,156
Year to Date					
2015	200,454	20,807	85,654	272	93,720
2016	188,049	21,109	75,573	287	91,080
2017	188,521	20,618	76,883	328	90,692
Rolling 12 Months Ending in June					
2016	394,246	44,220	161,307	519	188,200
2017	382,090	42,616	154,581	712	184,181

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 2015 and prior years are final. Values for 2016 and 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 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2007-June 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	924,785	8,469	17,016	4,321	894,978
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	82,391	864	1,751	471	79,306
February	75,353	893	1,750	412	72,298
March	75,758	871	1,365	274	73,249
April	73,341	710	1,395	344	70,893
May	76,050	659	1,339	271	73,780
June	77,024	563	1,356	375	74,730
July	78,025	689	1,273	363	75,700
August	77,846	709	1,280	423	75,434
Sept	73,401	411	1,426	363	71,201
October	73,927	349	1,084	328	72,167
November	78,622	789	1,415	321	76,098
December	83,046	962	1,583	377	80,124
Year 2017					
January	81,090	807	1,750	503	78,031
February	73,357	846	2,030	413	70,067
March	79,865	742	1,565	293	77,265
April	73,919	667	1,734	286	71,232
May	74,799	772	1,810	286	71,932
June	77,829	733	1,760	308	75,029
Year to Date					
2015	471,378	4,709	9,355	1,799	455,516
2016	459,917	4,560	8,955	2,147	444,255
2017	460,860	4,567	10,648	2,089	443,556
Rolling 12 Months Ending in June					
2016	932,501	9,202	18,800	4,062	900,436
2017	925,728	8,476	18,709	4,264	894,279

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 2015 and prior years are final. Values for 2016 and 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 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, June 2017 and June 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	22	60	-63.0%	16	0	6	59	0	0	NM	NM
Connecticut	6	0	--	0	0	6	0	0	0	0	0
Maine	NM	1	NM	0	0	0	1	0	0	NM	0
Massachusetts	0	59	-100.0%	0	0	0	59	0	0	0	NM
New Hampshire	16	0	NM	16	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	2,025	2,309	-12.0%	0	0	2,013	2,292	0	0	12	17
New Jersey	41	42	-0.8%	0	0	41	42	0	0	0	0
New York	27	59	-54.0%	0	0	24	53	0	0	3	6
Pennsylvania	1,957	2,209	-11.0%	0	0	1,948	2,198	0	0	9	11
East North Central	12,578	13,462	-6.6%	7,812	7,989	4,699	5,411	2	2	65	60
Illinois	3,002	3,659	-18.0%	190	211	2,756	3,403	1	NM	54	44
Indiana	3,036	3,261	-6.9%	2,902	3,128	134	132	0	1	0	NM
Michigan	2,169	2,115	2.6%	2,145	2,092	23	18	0	0	NM	5
Ohio	2,457	2,606	-5.7%	669	744	1,786	1,858	0	0	1	3
Wisconsin	1,915	1,822	5.1%	1,906	1,814	0	0	0	0	9	8
West North Central	10,377	10,470	-0.9%	10,261	10,359	0	NM	2	4	113	106
Iowa	1,666	1,616	3.1%	1,597	1,554	0	0	2	3	67	58
Kansas	1,286	1,477	-13.0%	1,286	1,477	0	0	0	0	0	0
Minnesota	1,116	1,121	-0.4%	1,101	1,101	0	0	0	NM	15	20
Missouri	3,480	3,284	6.0%	3,480	3,282	0	NM	0	0	0	NM
Nebraska	1,121	1,106	1.4%	1,095	1,083	0	0	0	0	26	22
North Dakota	1,587	1,730	-8.3%	1,581	1,726	0	0	0	0	NM	5
South Dakota	121	137	-11.0%	121	137	0	0	0	0	0	0
South Atlantic	8,805	10,300	-15.0%	8,013	9,155	779	1,117	1	NM	13	26
Delaware	6	3	79.0%	0	0	6	3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,652	1,791	-7.8%	1,649	1,754	0	33	0	0	3	4
Georgia	1,683	2,112	-20.0%	1,680	2,108	0	0	0	0	3	5
Maryland	330	562	-41.0%	0	0	328	560	0	0	1	2
North Carolina	1,339	1,665	-20.0%	1,332	1,649	4	NM	1	1	2	4
South Carolina	714	872	-18.0%	713	868	0	0	0	0	1	4
Virginia	512	716	-29.0%	491	696	18	15	0	NM	2	4
West Virginia	2,570	2,579	-0.4%	2,148	2,081	422	494	0	0	0	4
East South Central	5,919	6,538	-9.5%	5,710	6,213	196	309	0	0	13	15
Alabama	1,490	1,591	-6.3%	1,489	1,590	0	0	0	0	1	1
Kentucky	2,630	2,712	-3.0%	2,630	2,712	0	0	0	0	0	0
Mississippi	348	502	-31.0%	152	193	196	309	0	0	0	0
Tennessee	1,452	1,733	-16.0%	1,440	1,718	0	0	0	0	12	14
West South Central	12,035	12,146	-0.9%	5,574	5,527	6,450	6,600	0	0	12	19
Arkansas	1,325	1,172	13.0%	1,104	994	221	178	0	0	1	1
Louisiana	960	924	3.8%	688	574	272	351	0	0	0	0
Oklahoma	1,007	1,007	-0.1%	903	863	92	126	0	0	11	18
Texas	8,744	9,043	-3.3%	2,880	3,097	5,865	5,946	0	0	0	0
Mountain	7,359	7,770	-5.3%	6,737	7,047	588	665	0	0	34	58
Arizona	1,409	1,495	-5.8%	1,409	1,495	0	0	0	0	0	0
Colorado	1,492	1,459	2.3%	1,492	1,457	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	481	566	-15.0%	25	NM	457	548	0	0	0	NM
Nevada	107	116	-7.9%	57	65	50	51	0	0	0	0
New Mexico	847	1,148	-26.0%	847	1,148	0	0	0	0	0	0
Utah	1,004	1,038	-3.3%	949	964	36	NM	0	0	20	46
Wyoming	2,017	1,947	3.6%	1,959	1,901	46	NM	0	0	13	11
Pacific Contiguous	6	188	-97.0%	0	58	0	123	0	0	6	6
California	6	6	7.2%	0	0	0	0	0	0	6	6
Oregon	0	58	-100.0%	0	58	0	0	0	0	0	0
Washington	0	124	-100.0%	0	0	0	123	0	0	0	0
Pacific Noncontiguous	78	84	-7.1%	NM	14	71	66	4	3	0	NM
Alaska	21	29	-30.0%	NM	14	NM	NM	4	3	0	0
Hawaii	58	55	5.2%	0	0	58	53	0	0	0	NM
U.S. Total	59,206	63,326	-6.5%	44,127	46,363	14,801	16,644	8	10	270	310

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	696	620	12.0%	65	72	627	545	0	0	NM	3
Connecticut	62	38	63.0%	0	0	62	38	0	0	0	0
Maine	10	8	30.0%	0	0	6	6	0	0	NM	2
Massachusetts	559	502	11.0%	0	0	559	501	0	0	0	2
New Hampshire	65	72	-9.3%	65	72	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	11,463	12,656	-9.4%	0	0	11,379	12,544	0	0	85	112
New Jersey	245	263	-7.2%	0	0	245	263	0	0	0	0
New York	215	335	-36.0%	0	0	185	299	0	0	31	35
Pennsylvania	11,003	12,058	-8.7%	0	0	10,950	11,981	0	0	54	77
East North Central	69,650	66,148	5.3%	42,385	40,356	26,853	25,373	12	16	399	403
Illinois	16,510	16,370	0.9%	1,103	947	15,083	15,142	10	7	314	274
Indiana	16,635	17,092	-2.7%	16,043	16,045	590	1,042	2	5	0	0
Michigan	12,393	11,127	11.0%	12,244	10,969	131	119	0	4	18	35
Ohio	14,612	13,146	11.0%	3,556	4,046	11,050	9,070	0	0	6	29
Wisconsin	9,499	8,413	13.0%	9,439	8,348	0	0	0	0	60	64
West North Central	55,915	52,780	5.9%	55,202	52,087	0	5	21	26	691	662
Iowa	7,343	6,242	18.0%	6,993	5,876	0	0	13	17	337	348
Kansas	5,766	6,356	-9.3%	5,766	6,356	0	0	0	0	0	0
Minnesota	6,453	6,292	2.6%	6,305	6,162	0	0	4	3	144	127
Missouri	19,442	17,310	12.0%	19,437	17,292	0	5	5	6	0	6
Nebraska	5,941	5,930	0.2%	5,762	5,782	0	0	0	0	179	148
North Dakota	10,311	9,933	3.8%	10,280	9,901	0	0	0	0	31	33
South Dakota	659	718	-8.2%	659	718	0	0	0	0	0	0
South Atlantic	44,356	46,746	-5.1%	40,107	41,230	4,151	5,358	10	10	87	148
Delaware	46	106	-57.0%	0	0	46	106	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8,560	7,362	16.0%	8,543	7,239	0	105	0	0	17	18
Georgia	8,002	8,622	-7.2%	7,981	8,598	0	0	0	0	20	24
Maryland	1,424	2,534	-44.0%	0	0	1,414	2,523	0	0	10	10
North Carolina	6,235	6,039	3.2%	6,185	5,980	28	34	5	6	17	18
South Carolina	3,823	4,229	-9.6%	3,819	4,202	0	0	0	0	4	27
Virginia	2,721	3,730	-27.0%	2,594	3,608	103	90	5	4	19	28
West Virginia	13,546	14,123	-4.1%	10,985	11,602	2,561	2,499	0	0	0	22
East South Central	30,848	31,387	-1.7%	29,396	29,884	1,372	1,396	0	0	80	107
Alabama	7,841	7,454	5.2%	7,833	7,443	0	0	0	0	8	11
Kentucky	14,458	15,168	-4.7%	14,458	15,168	0	0	0	0	0	0
Mississippi	1,993	1,963	1.5%	620	567	1,372	1,396	0	0	0	0
Tennessee	6,556	6,801	-3.6%	6,484	6,705	0	0	0	0	71	96
West South Central	58,883	48,322	22.0%	27,142	23,741	31,659	24,493	0	0	81	88
Arkansas	6,861	5,259	30.0%	6,244	4,185	611	1,067	0	0	6	7
Louisiana	4,271	3,822	12.0%	2,596	2,749	1,675	1,073	0	0	0	0
Oklahoma	4,732	4,546	4.1%	4,226	3,978	431	487	0	0	76	81
Texas	43,018	34,694	24.0%	14,077	12,828	28,941	21,866	0	0	0	0
Mountain	42,120	39,912	5.5%	37,490	35,380	4,524	4,360	0	0	107	173
Arizona	7,586	7,136	6.3%	7,586	7,136	0	0	0	0	0	0
Colorado	8,101	7,613	6.4%	8,098	7,604	0	7	0	0	3	2
Idaho	NM	7	NM	0	0	0	0	0	0	NM	7
Montana	3,929	3,872	1.5%	137	NM	3,790	3,780	0	0	2	NM
Nevada	484	434	12.0%	210	208	275	225	0	0	0	0
New Mexico	5,264	4,585	15.0%	5,264	4,585	0	0	0	0	0	0
Utah	5,434	5,276	3.0%	5,210	5,046	198	146	0	0	26	84
Wyoming	11,317	10,989	3.0%	10,985	10,711	261	201	0	0	70	77
Pacific Contiguous	916	662	38.0%	334	243	546	378	0	0	36	41
California	33	37	-12.0%	0	0	0	0	0	0	33	37
Oregon	334	243	37.0%	334	243	0	0	0	0	0	0
Washington	549	382	44.0%	0	0	546	378	0	0	3	4
Pacific Noncontiguous	509	591	-14.0%	97	130	390	435	21	21	0	5
Alaska	182	238	-23.0%	97	130	64	87	21	21	0	0
Hawaii	326	353	-7.6%	0	0	326	348	0	0	0	5
U.S. Total	315,355	299,824	5.2%	232,220	223,122	81,501	74,887	65	73	1,570	1,742

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

Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, June 2017 and June 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	49	47	5.6%	9	8	36	35	3	NM	1	NM
Connecticut	19	8	140.0%	NM	1	18	6	NM	NM	0	NM
Maine	4	14	-74.0%	0	NM	2	13	1	NM	1	1
Massachusetts	20	18	13.0%	3	2	15	16	NM	NM	0	NM
New Hampshire	5	4	8.6%	4	4	NM	NM	0	NM	0	NM
Rhode Island	NM	NM	NM	0	1	NM	NM	0	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	109	74	48.0%	23	17	77	51	NM	NM	4	3
New Jersey	11	5	114.0%	NM	NM	10	4	0	NM	0	NM
New York	57	31	86.0%	23	16	29	12	NM	NM	2	1
Pennsylvania	41	38	7.9%	0	NM	38	35	1	NM	2	NM
East North Central	92	88	4.9%	63	50	26	34	1	NM	2	3
Illinois	6	8	-26.0%	NM	1	5	7	0	NM	0	0
Indiana	23	15	52.0%	22	14	0	NM	0	NM	1	1
Michigan	18	23	-21.0%	17	21	0	0	0	0	1	1
Ohio	39	37	4.6%	17	10	21	26	0	NM	0	1
Wisconsin	NM	4	NM	NM	4	0	0	0	NM	NM	NM
West North Central	46	48	-2.4%	46	46	NM	1	NM	NM	0	NM
Iowa	NM	8	NM	NM	8	NM	NM	0	NM	0	NM
Kansas	8	8	-8.8%	8	8	0	0	0	0	0	0
Minnesota	NM	6	NM	NM	5	NM	1	NM	NM	0	NM
Missouri	5	15	-64.0%	5	15	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	6	9	-27.0%	6	9	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	301	329	-8.6%	255	281	34	39	5	NM	7	8
Delaware	NM	NM	NM	0	NM	NM	NM	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	73	139	-47.0%	70	136	2	NM	0	0	NM	1
Georgia	14	13	11.0%	11	10	NM	NM	NM	NM	NM	3
Maryland	16	23	-33.0%	NM	1	15	21	0	NM	0	NM
North Carolina	29	36	-19.0%	28	34	NM	NM	NM	NM	NM	NM
South Carolina	15	21	-25.0%	14	18	0	NM	NM	NM	1	3
Virginia	130	79	66.0%	114	65	11	13	5	NM	NM	1
West Virginia	18	17	9.0%	18	16	0	0	0	0	0	0
East South Central	45	50	-9.2%	43	47	NM	NM	0	NM	NM	2
Alabama	NM	7	NM	3	5	NM	NM	0	0	NM	2
Kentucky	13	15	-9.4%	13	15	0	0	0	0	0	0
Mississippi	2	3	-30.0%	2	3	0	0	0	0	0	0
Tennessee	25	25	-1.1%	25	25	0	NM	0	NM	0	NM
West South Central	32	33	-1.9%	24	23	7	9	0	NM	NM	NM
Arkansas	10	13	-22.0%	6	9	5	4	0	0	NM	0
Louisiana	NM	3	NM	NM	3	0	0	0	0	0	0
Oklahoma	11	6	77.0%	11	6	0	0	0	NM	0	NM
Texas	9	11	-16.0%	6	5	3	5	0	NM	0	NM
Mountain	38	36	4.4%	33	30	4	6	0	NM	0	NM
Arizona	12	6	100.0%	12	6	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	4	5	-32.0%	NM	NM	4	5	0	0	0	0
Nevada	4	6	-20.0%	4	5	1	1	0	0	0	0
New Mexico	NM	4	NM	NM	4	0	0	0	0	0	NM
Utah	4	4	-16.0%	4	4	0	NM	0	0	0	NM
Wyoming	8	10	-20.0%	8	10	0	0	0	0	0	NM
Pacific Contiguous	NM	29	NM	NM	7	2	6	NM	NM	NM	15
California	NM	20	NM	NM	5	2	NM	NM	NM	NM	14
Oregon	NM	2	NM	NM	2	0	0	0	NM	0	0
Washington	NM	7	NM	NM	NM	NM	6	0	NM	NM	1
Pacific Noncontiguous	949	845	12.0%	785	733	142	99	NM	2	22	11
Alaska	119	92	29.0%	113	86	0	0	NM	NM	6	6
Hawaii	830	753	10.0%	672	647	142	99	0	1	16	5
U.S. Total	1,670	1,577	5.9%	1,286	1,242	330	281	14	9	40	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 June 2017 and June 2016 (Thousand Barrels)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	404	433	-6.7%	53	53	301	344	41	24	9	12
Connecticut	88	72	22.0%	5	5	80	57	NM	NM	1	NM
Maine	60	168	-64.0%	0	NM	50	158	3	NM	7	8
Massachusetts	202	147	38.0%	11	20	165	116	24	10	2	NM
New Hampshire	32	22	45.0%	26	17	NM	NM	6	4	0	NM
Rhode Island	NM	22	NM	5	9	NM	10	6	NM	0	0
Vermont	5	NM	NM	5	NM	0	0	0	NM	0	0
Middle Atlantic	645	985	-35.0%	156	299	428	635	29	18	32	34
New Jersey	70	98	-28.0%	NM	NM	70	94	0	NM	0	NM
New York	336	616	-45.0%	156	296	136	285	23	14	21	20
Pennsylvania	239	272	-12.0%	0	NM	223	256	6	NM	11	12
East North Central	447	554	-19.0%	285	342	148	196	3	3	11	13
Illinois	50	78	-36.0%	5	6	45	71	0	1	0	0
Indiana	109	115	-4.8%	103	107	0	NM	0	NM	6	8
Michigan	85	132	-36.0%	79	128	0	0	2	1	3	3
Ohio	171	197	-13.0%	66	71	104	123	0	NM	1	2
Wisconsin	33	32	1.0%	32	29	0	2	0	NM	NM	0
West North Central	308	247	24.0%	302	240	4	5	1	NM	1	1
Iowa	66	57	15.0%	65	56	NM	1	0	0	0	NM
Kansas	76	48	57.0%	76	48	0	0	0	0	0	0
Minnesota	31	24	33.0%	27	17	3	4	1	NM	1	1
Missouri	52	78	-33.0%	52	78	0	NM	0	NM	0	0
Nebraska	NM	6	NM	NM	6	0	0	0	0	0	0
North Dakota	47	31	51.0%	47	31	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,830	1,972	-7.2%	1,513	1,391	259	528	24	NM	33	48
Delaware	NM	72	NM	0	NM	NM	70	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	513	366	40.0%	503	350	6	NM	0	0	4	7
Georgia	112	140	-20.0%	79	88	NM	34	2	2	12	17
Maryland	99	222	-56.0%	NM	9	95	210	1	NM	1	1
North Carolina	325	310	4.7%	298	249	NM	57	0	NM	5	4
South Carolina	138	142	-3.1%	127	124	2	NM	NM	NM	9	16
Virginia	508	615	-17.0%	393	466	91	146	22	NM	2	2
West Virginia	112	104	7.0%	112	104	0	1	0	0	0	0
East South Central	255	295	-14.0%	239	272	NM	11	0	NM	11	12
Alabama	40	55	-28.0%	25	33	NM	11	0	0	9	11
Kentucky	102	108	-5.7%	102	108	0	0	0	0	0	0
Mississippi	13	18	-25.0%	12	17	0	0	0	0	1	1
Tennessee	100	114	-13.0%	99	113	0	NM	0	NM	1	1
West South Central	160	167	-4.3%	86	109	70	53	1	NM	3	4
Arkansas	50	44	14.0%	18	32	31	10	0	0	1	2
Louisiana	NM	19	NM	NM	16	0	3	0	0	0	0
Oklahoma	20	18	9.9%	19	17	0	0	0	NM	1	1
Texas	73	85	-15.0%	32	44	39	39	1	NM	1	NM
Mountain	230	232	-0.8%	205	208	25	24	0	NM	0	NM
Arizona	56	58	-3.6%	56	58	0	0	0	NM	0	0
Colorado	NM	10	NM	NM	10	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	20	21	-5.9%	NM	NM	20	21	0	0	0	0
Nevada	9	12	-27.0%	5	10	4	2	0	0	0	0
New Mexico	44	57	-22.0%	44	57	0	0	0	0	0	NM
Utah	39	26	52.0%	38	25	1	NM	0	0	0	NM
Wyoming	51	49	5.0%	51	49	0	0	0	0	0	NM
Pacific Contiguous	72	91	-21.0%	41	33	13	16	1	NM	18	41
California	47	73	-35.0%	31	29	6	8	1	NM	9	35
Oregon	NM	NM	NM	NM	2	0	0	0	NM	0	0
Washington	20	16	21.0%	NM	NM	NM	7	0	NM	9	7
Pacific Noncontiguous	5,697	5,291	7.7%	4,939	4,615	620	575	9	9	129	92
Alaska	812	637	27.0%	772	597	0	0	5	4	36	36
Hawaii	4,885	4,654	5.0%	4,168	4,018	620	575	4	5	93	56
U.S. Total	10,047	10,268	-2.1%	7,819	7,562	1,874	2,386	109	62	246	258

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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, June 2017 and June 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	6	NM	0	0	0	0	0	0	NM	6
New Jersey	1	NM	NM	0	0	0	0	0	0	1	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	4	NM	0	0	0	0	0	0	NM	4
East North Central	82	78	5.2%	50	34	29	40	0	0	4	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	48	35	40.0%	45	31	0	0	0	0	4	4
Ohio	29	40	-27.0%	0	0	29	40	0	0	0	0
Wisconsin	5	4	31.0%	5	4	0	0	0	0	0	0
West North Central	3	NM	NM	0	0	0	0	0	0	3	NM
Iowa	3	NM	NM	0	0	0	0	0	0	3	NM
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	50	75	-33.0%	47	72	0	0	0	0	NM	3
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	47	72	-35.0%	47	72	0	0	0	0	0	0
Georgia	NM	3	NM	0	0	0	0	0	0	NM	3
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	31	43	-27.0%	31	43	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	31	43	-27.0%	31	43	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	160	165	-3.2%	154	158	0	0	0	0	6	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	157	162	-3.2%	154	158	0	0	0	0	2	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	3	-4.6%	0	0	0	0	0	0	3	3
Mountain	13	13	5.0%	0	0	13	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	13	13	5.0%	0	0	13	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	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	344	382	-10.0%	283	308	42	52	0	0	19	22

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	22	30	-26.0%	0	0	0	0	0	0	22	30
New Jersey	3	NM	NM	0	0	0	0	0	0	3	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	23	NM	0	0	0	0	0	0	NM	23
East North Central	408	521	-22.0%	237	303	158	192	0	0	13	27
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	236	152	55.0%	223	131	0	1	0	0	13	19
Ohio	158	191	-18.0%	0	0	158	190	0	0	0	1
Wisconsin	14	19	-25.0%	14	12	0	0	0	0	0	6
West North Central	10	14	-29.0%	0	0	0	0	1	1	9	13
Iowa	10	14	-29.0%	0	0	0	0	1	1	9	13
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	153	426	-64.0%	140	413	0	0	0	0	13	14
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	140	413	-66.0%	140	413	0	0	0	0	0	0
Georgia	13	14	-3.9%	0	0	0	0	0	0	13	14
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	154	217	-29.0%	154	217	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	154	217	-29.0%	154	217	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	895	895	0.1%	859	854	0	0	0	0	36	41
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	876	871	0.6%	859	854	0	0	0	0	17	17
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	19	24	-19.0%	0	0	0	0	0	0	19	24
Mountain	81	76	6.1%	0	0	81	76	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	81	76	6.1%	0	0	81	76	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,723	2,179	-21.0%	1,390	1,786	238	268	1	1	94	125

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, June 2017 and June 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	33,525	37,760	-11.0%	NM	106	31,705	36,034	NM	820	776	800
Connecticut	8,549	10,018	-15.0%	33	4	7,874	9,243	NM	340	NM	431
Maine	1,627	2,037	-20.0%	0	0	1,420	1,769	29	NM	NM	240
Massachusetts	16,625	18,002	-7.7%	NM	NM	15,816	17,433	NM	377	162	117
New Hampshire	2,523	2,887	-13.0%	52	27	2,453	2,827	6	NM	12	NM
Rhode Island	4,199	4,816	-13.0%	0	0	4,142	4,761	57	NM	0	0
Vermont	2	NM	NM	1	0	0	0	0	NM	0	0
Middle Atlantic	96,053	121,551	-21.0%	9,955	12,568	84,205	107,086	833	888	1,060	1,009
New Jersey	20,607	29,755	-31.0%	118	NM	20,062	29,251	NM	153	288	276
New York	37,537	44,606	-16.0%	9,824	12,486	26,905	31,303	NM	629	224	188
Pennsylvania	37,908	47,189	-20.0%	13	NM	37,238	46,532	109	NM	548	545
East North Central	62,757	77,285	-19.0%	27,361	36,012	32,175	38,800	1,012	878	2,208	1,595
Illinois	10,461	13,480	-22.0%	NM	1,503	8,888	11,423	NM	255	540	299
Indiana	10,908	14,079	-23.0%	8,992	11,304	861	2,340	112	105	942	330
Michigan	16,804	21,247	-21.0%	5,484	8,022	10,508	12,111	262	NM	550	NM
Ohio	16,183	17,396	-7.0%	4,938	4,973	10,922	12,261	261	NM	62	39
Wisconsin	8,401	11,083	-24.0%	7,257	10,209	996	664	34	NM	NM	NM
West North Central	14,517	21,843	-34.0%	12,532	18,081	1,482	2,968	240	NM	263	NM
Iowa	2,274	2,376	-4.3%	2,110	2,131	NM	NM	64	NM	99	NM
Kansas	2,586	3,196	-19.0%	2,520	3,117	0	0	0	0	66	NM
Minnesota	4,526	6,290	-28.0%	3,792	4,839	NM	1,186	71	NM	58	NM
Missouri	3,414	6,975	-51.0%	2,397	5,031	876	1,781	105	136	36	NM
Nebraska	NM	1,423	NM	NM	1,389	0	0	0	NM	0	32
North Dakota	282	838	-66.0%	NM	829	0	0	0	0	4	NM
South Dakota	NM	745	NM	NM	745	0	0	0	0	0	0
South Atlantic	222,599	232,375	-4.2%	178,777	182,799	40,418	46,541	619	645	2,784	2,390
Delaware	4,943	6,944	-29.0%	12	NM	3,939	5,956	0	0	NM	943
District of Columbia	69	NM	NM	0	0	0	0	69	NM	0	0
Florida	107,963	114,848	-6.0%	100,672	101,331	6,615	12,708	7	NM	669	780
Georgia	33,991	39,790	-15.0%	24,945	30,283	8,676	9,291	0	0	370	217
Maryland	5,025	4,172	20.0%	0	0	4,459	3,584	520	543	46	45
North Carolina	23,753	23,982	-1.0%	20,256	20,265	3,441	3,625	6	7	49	86
South Carolina	11,503	12,106	-5.0%	10,170	10,474	1,217	1,582	0	NM	116	43
Virginia	34,177	29,105	17.0%	22,604	20,317	11,244	8,583	17	NM	313	200
West Virginia	1,175	1,375	-15.0%	118	85	828	1,214	0	0	229	76
East South Central	75,290	92,393	-19.0%	50,854	61,623	23,268	29,533	NM	NM	1,109	1,122
Alabama	33,673	39,673	-15.0%	12,071	12,400	21,059	26,677	0	0	543	596
Kentucky	5,167	6,885	-25.0%	4,817	6,144	201	588	0	0	NM	152
Mississippi	29,580	36,301	-19.0%	27,393	33,841	2,002	2,268	0	NM	184	188
Tennessee	6,870	9,534	-28.0%	6,573	9,238	6	0	NM	NM	232	186
West South Central	233,635	261,765	-11.0%	76,293	99,600	118,621	121,141	689	698	38,032	40,326
Arkansas	11,524	16,844	-32.0%	3,576	7,537	7,837	9,167	0	NM	111	137
Louisiana	42,433	50,079	-15.0%	24,567	28,666	1,753	4,403	146	NM	15,966	16,867
Oklahoma	24,169	31,519	-23.0%	14,489	22,746	9,567	8,684	0	NM	112	79
Texas	155,510	163,323	-4.8%	33,660	40,652	99,464	98,886	543	542	21,843	23,243
Mountain	70,204	79,805	-12.0%	52,419	59,229	16,566	19,296	339	366	881	915
Arizona	27,567	31,171	-12.0%	17,338	17,364	10,102	13,699	127	109	0	0
Colorado	8,624	10,064	-14.0%	6,953	8,206	1,646	1,835	0	0	25	NM
Idaho	1,818	2,006	-9.3%	1,096	1,933	NM	NM	34	0	NM	NM
Montana	NM	670	NM	NM	605	NM	NM	0	0	0	0
Nevada	19,270	21,305	-9.6%	17,623	19,613	1,390	1,409	32	NM	225	218
New Mexico	8,178	7,632	7.1%	5,526	5,553	2,547	1,966	104	114	0	0
Utah	4,034	6,503	-38.0%	3,428	5,783	196	285	42	NM	369	356
Wyoming	362	NM	NM	NM	NM	0	NM	0	0	234	NM
Pacific Contiguous	60,971	80,375	-24.0%	21,138	29,411	33,144	43,898	1,290	1,340	5,399	5,726
California	52,936	66,534	-20.0%	16,692	21,691	29,662	37,907	1,256	1,284	5,327	5,652
Oregon	3,541	7,959	-56.0%	2,267	3,999	1,208	3,872	NM	NM	NM	NM
Washington	4,494	5,882	-24.0%	2,179	3,722	2,274	2,120	3	NM	NM	32
Pacific Noncontiguous	1,177	1,828	-36.0%	1,103	1,756	0	0	0	3	74	NM
Alaska	1,177	1,828	-36.0%	1,103	1,756	0	0	0	3	74	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	870,727	1,006,981	-14.0%	430,843	501,185	381,584	445,296	5,712	6,087	52,588	54,412

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

Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through June 2017 and June 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	181,285	188,616	-3.9%	1,500	824	171,448	179,127	3,806	4,412	4,531	4,253
Connecticut	52,324	64,094	-18.0%	190	12	48,028	59,829	NM	1,891	2,519	2,360
Maine	8,152	11,356	-28.0%	0	0	7,024	10,012	157	NM	971	1,199
Massachusetts	88,427	76,960	15.0%	NM	702	84,636	73,660	NM	1,968	970	629
New Hampshire	11,456	13,739	-17.0%	240	108	11,073	13,455	72	NM	71	NM
Rhode Island	20,914	22,464	-6.9%	0	0	20,687	22,170	227	294	0	0
Vermont	12	NM	NM	7	3	0	0	5	NM	0	0
Middle Atlantic	477,601	576,417	-17.0%	45,988	53,413	421,133	512,003	4,682	5,241	5,798	5,760
New Jersey	106,399	143,110	-26.0%	492	NM	103,453	140,435	784	841	1,669	1,486
New York	184,608	211,605	-13.0%	45,471	53,044	134,821	153,623	3,184	3,825	1,132	1,114
Pennsylvania	186,594	221,702	-16.0%	25	NM	182,859	217,944	714	575	2,997	3,161
East North Central	324,662	421,771	-23.0%	137,085	188,478	167,939	218,558	5,414	5,038	14,224	9,698
Illinois	45,652	62,900	-27.0%	2,657	5,613	38,781	54,142	NM	1,518	2,506	1,626
Indiana	62,645	75,643	-17.0%	47,483	58,467	8,797	14,704	556	546	5,809	1,927
Michigan	89,850	117,660	-24.0%	26,357	39,463	57,367	71,266	1,650	1,950	4,476	4,981
Ohio	86,756	102,144	-15.0%	25,716	26,566	59,245	74,763	1,309	666	487	149
Wisconsin	39,760	63,423	-37.0%	34,872	58,368	3,750	3,683	192	358	946	1,014
West North Central	68,351	87,982	-22.0%	57,138	71,662	7,223	12,068	1,550	1,866	2,440	2,387
Iowa	10,858	11,492	-5.5%	9,224	9,962	NM	NM	293	344	1,341	1,185
Kansas	8,785	8,355	5.2%	8,567	8,030	0	0	0	0	219	325
Minnesota	24,286	34,807	-30.0%	20,095	27,710	2,793	5,568	810	942	588	587
Missouri	15,703	23,117	-32.0%	10,549	15,899	4,429	6,500	443	576	281	143
Nebraska	3,138	2,598	21.0%	3,135	2,509	0	0	4	NM	0	85
North Dakota	2,557	4,023	-36.0%	2,545	3,961	0	0	0	0	12	62
South Dakota	3,024	3,591	-16.0%	3,024	3,591	0	0	0	0	0	0
South Atlantic	1,113,406	1,159,395	-4.0%	910,745	936,071	182,667	205,971	3,684	3,535	16,311	13,817
Delaware	23,391	28,627	-18.0%	34	NM	17,840	22,812	0	0	5,516	5,630
District of Columbia	358	297	20.0%	0	0	0	0	358	297	0	0
Florida	545,546	581,201	-6.1%	511,779	524,945	29,538	51,760	77	NM	4,151	4,365
Georgia	172,006	188,316	-8.7%	127,257	142,501	42,488	44,250	0	0	2,260	1,565
Maryland	23,936	21,200	13.0%	0	0	20,524	17,939	3,157	3,026	255	236
North Carolina	131,633	146,601	-10.0%	113,010	129,641	18,339	16,457	33	30	251	473
South Carolina	61,233	56,230	8.9%	52,804	44,800	7,705	11,160	1	NM	722	251
Virginia	151,629	131,255	16.0%	105,115	93,501	44,546	36,543	57	NM	1,912	1,176
West Virginia	3,674	5,669	-35.0%	746	500	1,686	5,050	0	0	1,242	120
East South Central	389,888	447,997	-13.0%	262,542	295,318	119,963	145,413	NM	634	6,805	6,632
Alabama	174,715	195,740	-11.0%	65,937	62,285	105,287	129,536	0	0	3,491	3,919
Kentucky	23,682	32,294	-27.0%	21,412	29,322	1,341	2,147	0	0	928	826
Mississippi	155,653	178,468	-13.0%	141,274	163,554	13,277	13,730	15	NM	1,088	1,161
Tennessee	35,838	41,495	-14.0%	33,919	40,156	58	0	NM	613	1,298	725
West South Central	1,048,529	1,274,962	-18.0%	311,654	431,060	509,309	606,984	3,556	3,727	224,011	233,191
Arkansas	51,534	65,078	-21.0%	13,782	26,820	36,921	37,312	1	NM	830	934
Louisiana	218,336	269,229	-19.0%	108,776	139,786	14,585	27,226	694	834	94,281	101,383
Oklahoma	95,139	130,274	-27.0%	60,897	91,711	33,578	38,027	0	NM	664	501
Texas	683,520	810,381	-16.0%	128,199	172,742	424,225	504,418	2,862	2,848	128,235	130,373
Mountain	285,099	348,422	-18.0%	220,118	269,182	56,749	71,678	2,208	1,892	6,024	5,671
Arizona	83,594	112,449	-26.0%	58,949	73,884	23,940	37,993	705	572	0	0
Colorado	41,672	46,855	-11.0%	33,950	38,830	7,586	7,900	0	0	137	NM
Idaho	10,860	11,257	-3.5%	6,262	6,674	3,927	4,161	222	0	449	422
Montana	2,172	3,461	-37.0%	1,880	3,134	272	NM	0	0	20	0
Nevada	87,859	100,767	-13.0%	79,098	91,908	7,464	7,348	282	316	1,014	1,195
New Mexico	35,666	38,822	-8.1%	22,469	25,030	12,602	13,196	586	590	9	NM
Utah	20,825	32,061	-35.0%	17,003	28,928	950	750	412	413	2,461	1,969
Wyoming	2,450	2,750	-11.0%	NM	793	9	NM	0	0	1,934	1,953
Pacific Contiguous	317,530	378,759	-16.0%	125,929	141,406	152,240	198,883	7,837	6,931	31,523	31,539
California	254,575	303,164	-16.0%	92,473	104,200	123,642	161,370	7,533	6,575	30,928	31,019
Oregon	29,731	41,336	-28.0%	15,052	17,379	14,175	23,431	NM	NM	NM	218
Washington	33,224	34,259	-3.0%	18,405	19,828	14,423	14,081	43	48	353	302
Pacific Noncontiguous	7,692	11,297	-32.0%	7,235	10,791	0	0	25	NM	432	NM
Alaska	7,692	11,297	-32.0%	7,235	10,791	0	0	25	NM	432	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,214,043	4,895,619	-14.0%	2,079,934	2,398,205	1,788,671	2,150,684	33,340	33,284	312,098	313,446

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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, June 2017 and June 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	884	1,067	-17.0%	0	0	822	991	62	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	NM	NM	0	0	NM	NM	0	0	0	0
Massachusetts	315	369	-15.0%	0	0	315	369	0	0	0	0
New Hampshire	113	181	-37.0%	0	0	NM	NM	62	NM	0	0
Rhode Island	353	354	-0.3%	0	0	353	354	0	0	0	0
Vermont	0	NM	NM	0	0	0	NM	0	0	0	0
Middle Atlantic	4,380	4,852	-9.7%	0	0	4,124	4,665	NM	NM	144	143
New Jersey	772	834	-7.5%	0	0	739	811	NM	NM	0	0
New York	1,233	1,539	-20.0%	0	0	1,233	1,539	0	0	0	0
Pennsylvania	2,375	2,479	-4.2%	0	0	2,152	2,316	NM	NM	144	143
East North Central	5,249	6,508	-19.0%	561	772	4,585	5,667	22	NM	NM	NM
Illinois	1,054	1,384	-24.0%	27	NM	1,027	1,344	0	0	0	0
Indiana	652	839	-22.0%	520	714	94	NM	0	0	NM	NM
Michigan	1,735	1,978	-12.0%	0	0	1,735	1,978	0	0	0	0
Ohio	891	1,132	-21.0%	0	0	891	1,132	0	0	0	0
Wisconsin	917	1,174	-22.0%	NM	NM	838	1,104	22	NM	42	NM
West North Central	859	1,135	-24.0%	295	310	564	825	0	0	0	0
Iowa	101	283	-64.0%	0	0	101	283	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	307	358	-14.0%	NM	NM	242	283	0	0	0	0
Missouri	NM	191	NM	NM	NM	NM	NM	0	0	0	0
Nebraska	161	156	3.3%	161	156	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	3,720	4,450	-16.0%	399	437	3,028	3,670	NM	170	NM	173
Delaware	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	590	606	-2.7%	130	119	459	485	0	NM	0	NM
Georgia	390	431	-9.5%	0	0	356	395	0	0	35	NM
Maryland	NM	217	NM	0	0	NM	NM	NM	NM	0	0
North Carolina	803	1,071	-25.0%	0	0	772	985	NM	NM	0	0
South Carolina	429	472	-9.2%	267	311	NM	NM	0	0	NM	126
Virginia	1,185	1,495	-21.0%	2	NM	1,161	1,466	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	385	515	-25.0%	NM	203	264	313	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	NM	218	NM	NM	203	10	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	169	NM	0	0	NM	169	0	0	0	0
West South Central	1,273	1,761	-28.0%	0	0	1,229	1,713	44	NM	0	0
Arkansas	NM	171	NM	0	0	NM	171	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	NM	NM	0	0	0	NM	0	0	0	0
Texas	1,127	1,560	-28.0%	0	0	1,083	1,512	44	NM	0	0
Mountain	445	517	-14.0%	NM	NM	387	448	37	NM	0	0
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	17	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	166	NM	0	0	NM	NM	20	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,584	5,506	-17.0%	439	640	3,013	3,609	1,133	1,257	0	0
California	3,760	4,483	-16.0%	46	161	2,618	3,101	1,097	1,221	0	0
Oregon	453	557	-19.0%	NM	NM	310	386	NM	NM	0	0
Washington	370	466	-20.0%	285	344	NM	NM	0	0	0	0
Pacific Noncontiguous	71	NM	NM	0	0	0	0	71	NM	0	0
Alaska	71	NM	NM	0	0	0	0	71	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,851	26,392	-17.0%	1,836	2,389	18,015	21,901	1,588	1,729	411	372

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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 June 2017 and June 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	5,283	6,297	-16.0%	0	0	5,006	5,901	276	396	0	0
Connecticut	NM	260	NM	0	0	NM	260	0	0	0	0
Maine	392	462	-15.0%	0	0	392	462	0	0	0	0
Massachusetts	1,871	2,211	-15.0%	0	0	1,871	2,211	0	0	0	0
New Hampshire	586	1,008	-42.0%	0	0	310	612	276	396	0	0
Rhode Island	2,026	2,094	-3.2%	0	0	2,026	2,094	0	0	0	0
Vermont	NM	262	NM	0	0	NM	262	0	0	0	0
Middle Atlantic	26,240	30,740	-15.0%	0	0	24,888	29,286	NM	621	930	832
New Jersey	4,283	5,146	-17.0%	0	0	4,120	4,917	NM	229	0	0
New York	7,626	9,232	-17.0%	0	0	7,626	9,232	0	0	0	0
Pennsylvania	14,331	16,362	-12.0%	0	0	13,142	15,137	NM	392	930	832
East North Central	32,206	39,282	-18.0%	3,639	4,628	27,888	34,074	215	158	464	423
Illinois	6,576	8,302	-21.0%	218	244	6,358	8,059	0	0	0	0
Indiana	4,058	5,114	-21.0%	3,330	4,277	561	652	0	0	NM	186
Michigan	10,355	11,874	-13.0%	0	0	10,355	11,874	0	0	0	0
Ohio	5,464	6,774	-19.0%	0	0	5,464	6,774	0	0	0	0
Wisconsin	5,753	7,217	-20.0%	NM	NM	5,150	6,716	215	158	298	236
West North Central	5,110	6,838	-25.0%	1,759	1,905	3,351	4,933	0	0	0	0
Iowa	609	1,687	-64.0%	0	0	609	1,687	0	0	0	0
Kansas	744	882	-16.0%	0	0	744	882	0	0	0	0
Minnesota	1,834	2,158	-15.0%	403	464	1,430	1,694	0	0	0	0
Missouri	1,014	1,174	-14.0%	446	504	568	669	0	0	0	0
Nebraska	909	937	-3.0%	909	937	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	22,633	27,755	-18.0%	2,494	2,827	18,167	21,962	901	1,521	1,071	1,445
Delaware	773	935	-17.0%	0	0	689	814	0	0	NM	121
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,559	3,721	-4.4%	851	902	2,708	2,798	0	NM	0	NM
Georgia	2,240	2,666	-16.0%	0	0	2,057	2,359	0	0	182	307
Maryland	1,173	1,384	-15.0%	0	0	803	940	NM	444	0	0
North Carolina	5,062	6,824	-26.0%	0	0	4,663	5,932	NM	892	0	0
South Carolina	2,594	3,100	-16.0%	1,604	1,881	NM	217	0	0	805	1,002
Virginia	7,211	9,047	-20.0%	39	NM	7,039	8,825	NM	178	0	0
West Virginia	23	NM	NM	0	0	23	NM	0	0	0	0
East South Central	2,396	3,089	-22.0%	807	1,217	1,589	1,872	0	0	0	0
Alabama	518	614	-16.0%	0	0	518	614	0	0	0	0
Kentucky	891	1,310	-32.0%	807	1,217	85	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	859	1,015	-15.0%	0	0	859	1,015	0	0	0	0
West South Central	7,957	10,705	-26.0%	0	0	7,682	10,249	275	456	0	0
Arkansas	855	1,016	-16.0%	0	0	855	1,016	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	52	184	-71.0%	0	0	52	184	0	0	0	0
Texas	7,050	9,505	-26.0%	0	0	6,775	9,049	275	456	0	0
Mountain	2,719	3,183	-15.0%	NM	NM	2,356	2,676	239	341	0	0
Arizona	494	586	-16.0%	0	0	494	586	0	0	0	0
Colorado	554	658	-16.0%	0	0	554	658	0	0	0	0
Idaho	410	560	-27.0%	NM	NM	NM	269	88	125	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	338	NM	0	0	NM	338	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	976	1,042	-6.4%	0	0	825	826	151	216	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	28,405	34,832	-18.0%	3,476	4,352	18,084	21,708	6,845	8,772	0	0
California	23,572	28,644	-18.0%	1,140	1,493	15,799	18,670	6,633	8,481	0	0
Oregon	2,612	3,403	-23.0%	618	804	1,782	2,309	NM	291	0	0
Washington	2,221	2,784	-20.0%	1,719	2,055	503	729	0	0	0	0
Pacific Noncontiguous	346	792	-56.0%	0	0	0	0	346	792	0	0
Alaska	346	792	-56.0%	0	0	0	0	346	792	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	133,295	163,513	-18.0%	12,298	15,094	109,012	132,662	9,519	13,057	2,465	2,700

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

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, June 2017 and June 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	327	288	14.0%	0	0	309	273	17	15	0	0
Connecticut	110	104	5.8%	0	0	110	104	0	0	0	0
Maine	27	23	21.0%	0	0	10	8	17	15	0	0
Massachusetts	178	152	18.0%	0	0	178	152	0	0	0	0
New Hampshire	11	9	16.0%	0	0	11	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	472	432	9.4%	0	0	379	348	94	84	0	0
New Jersey	124	118	5.7%	0	0	97	87	27	31	0	0
New York	177	154	15.0%	0	0	130	121	47	33	0	0
Pennsylvania	171	160	6.8%	0	0	152	140	19	20	0	0
East North Central	23	18	28.0%	3	4	0	0	20	15	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	62.0%	0	0	0	0	1	1	0	0
Michigan	19	14	34.0%	0	0	0	0	19	14	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-4.0%	3	4	0	0	0	0	0	0
West North Central	60	54	11.0%	35	37	22	16	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	60	54	11.0%	35	37	22	16	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	452	490	-7.9%	0	0	416	458	35	32	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	349	325	7.2%	0	0	349	325	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	68	78	-13.0%	0	0	68	78	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	35	87	-59.0%	0	0	0	55	35	32	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	0	627.0%	0	0	0	0	0	0	1	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	0	627.0%	0	0	0	0	0	0	1	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	NM	NM	0	0	0	NM	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	NM	NM	0	0	0	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	59	62	-4.3%	0	0	59	62	0	0	0	0
California	45	43	5.2%	0	0	45	43	0	0	0	0
Oregon	6	8	-23.0%	0	0	6	8	0	0	0	0
Washington	8	11	-27.0%	0	0	8	11	0	0	0	0
Pacific Noncontiguous	26	40	-35.0%	0	0	0	0	26	40	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	26	40	-35.0%	0	0	0	0	26	40	0	0
U.S. Total	1,419	1,383	2.6%	38	40	1,186	1,157	194	186	1	0

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

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through June 2017 and June 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	1,839	1,774	3.7%	0	0	1,738	1,679	102	95	0	0
Connecticut	633	631	0.3%	0	0	633	631	0	0	0	0
Maine	159	140	13.0%	0	0	57	45	102	95	0	0
Massachusetts	986	949	3.8%	0	0	986	949	0	0	0	0
New Hampshire	62	54	16.0%	0	0	62	54	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,660	2,498	6.5%	0	0	2,108	1,983	552	515	0	0
New Jersey	702	656	6.9%	0	0	528	485	173	171	0	0
New York	986	912	8.1%	0	0	733	696	253	216	0	0
Pennsylvania	972	930	4.6%	0	0	847	802	125	127	0	0
East North Central	124	121	2.4%	19	19	0	0	106	102	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	6	4	42.0%	0	0	0	0	6	4	0	0
Michigan	100	98	1.7%	0	0	0	0	100	98	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	19	19	-2.5%	19	19	0	0	0	0	0	0
West North Central	310	310	0.2%	180	207	120	92	11	11	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	310	310	0.2%	180	207	120	92	11	11	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,604	2,751	-5.3%	0	0	2,407	2,563	197	188	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,957	1,879	4.2%	0	0	1,957	1,879	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	384	404	-4.9%	0	0	384	404	0	NM	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	263	468	-44.0%	0	0	66	281	197	188	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	2	5	-54.0%	0	0	0	0	0	0	2	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2	5	-54.0%	0	0	0	0	0	0	2	5
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	1	-55.0%	0	0	0	1	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	1	-55.0%	0	0	0	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	377	300	26.0%	0	0	377	300	0	0	0	0
California	247	188	31.0%	0	0	247	188	0	0	0	0
Oregon	54	45	21.0%	0	0	54	45	0	0	0	0
Washington	77	67	15.0%	0	0	77	67	0	0	0	0
Pacific Noncontiguous	203	202	0.6%	0	0	0	0	203	202	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	203	202	0.6%	0	0	0	0	203	202	0	0
U.S. Total	8,121	7,962	2.0%	198	226	6,750	6,617	1,170	1,114	2	5

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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, June 2017 and June 2016 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	4,496	5,183	-13.0%	770	928	3,218	3,777	2	NM	506	477
Connecticut	NM	368	NM	0	0	NM	368	0	0	0	0
Maine	1,904	2,089	-8.8%	0	0	1,398	1,612	0	0	506	477
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,762	1,938	-9.1%	459	455	1,303	1,483	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	466	633	-26.0%	311	474	NM	NM	2	NM	0	0
Middle Atlantic	1,128	1,165	-3.1%	0	0	699	642	0	0	430	522
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	792	767	3.3%	0	0	698	642	0	0	94	125
Pennsylvania	336	398	-15.0%	0	0	1	0	0	0	336	398
East North Central	2,302	2,311	-0.4%	448	408	917	1,099	0	0	937	804
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,452	1,525	-4.8%	0	0	875	1,041	0	0	577	484
Ohio	163	184	-11.0%	0	0	41	NM	0	0	122	126
Wisconsin	687	602	14.0%	448	408	0	0	0	0	238	194
West North Central	1,070	1,030	3.9%	NM	185	528	526	50	61	319	257
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,026	982	4.5%	NM	185	528	526	6	13	319	257
Missouri	44	47	-7.8%	0	0	0	0	44	47	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	9,560	9,881	-3.2%	1,854	2,003	2,644	2,535	0	NM	5,062	5,326
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	1,265	1,214	4.2%	0	0	487	521	0	0	777	693
Georgia	2,382	2,589	-8.0%	0	0	622	641	0	0	1,760	1,948
Maryland	42	84	-50.0%	0	0	0	0	0	NM	42	66
North Carolina	1,213	1,348	-10.0%	0	0	779	748	0	0	434	600
South Carolina	2,251	2,221	1.3%	350	342	496	489	0	0	1,405	1,390
Virginia	2,407	2,425	-0.8%	1,504	1,661	NM	136	0	0	644	629
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,996	3,281	-8.7%	0	0	192	218	0	0	2,804	3,063
Alabama	1,749	2,001	-13.0%	0	0	192	218	0	0	1,557	1,783
Kentucky	131	136	-3.9%	0	0	0	0	0	0	131	136
Mississippi	737	734	0.4%	0	0	0	0	0	0	737	734
Tennessee	380	410	-7.3%	0	0	0	0	0	0	380	410
West South Central	3,105	3,158	-1.7%	0	10	213	179	0	0	2,892	2,970
Arkansas	670	558	20.0%	0	0	0	0	0	0	670	558
Louisiana	1,587	1,704	-6.8%	0	0	0	0	0	0	1,587	1,704
Oklahoma	31	104	-70.0%	0	0	0	0	0	0	31	104
Texas	817	792	3.1%	0	10	213	179	0	0	604	604
Mountain	829	824	0.6%	0	0	405	346	0	0	424	478
Arizona	NM	271	NM	0	0	NM	271	0	0	0	0
Colorado	104	NM	NM	0	0	104	NM	0	0	0	0
Idaho	445	503	-11.0%	0	0	70	71	0	0	376	433
Montana	48	NM	NM	0	0	0	0	0	0	48	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,869	5,374	9.2%	340	395	3,748	3,340	0	0	1,781	1,640
California	3,960	3,407	16.0%	0	0	3,533	3,124	0	0	428	283
Oregon	547	525	4.0%	0	0	NM	NM	0	0	332	310
Washington	1,362	1,441	-5.5%	340	395	0	0	0	0	1,022	1,047
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	31,355	32,206	-2.6%	3,585	3,928	12,562	12,661	52	80	15,156	15,537

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through June 2017 and June 2016 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	27,554	31,075	-11.0%	4,098	4,646	20,086	23,339	48	NM	3,321	3,076
Connecticut	1,291	2,238	-42.0%	0	0	1,291	2,238	0	0	0	0
Maine	12,237	13,265	-7.8%	0	0	8,881	10,184	35	NM	3,321	3,076
Massachusetts	926	954	-2.8%	0	0	926	954	0	0	0	0
New Hampshire	10,373	11,281	-8.1%	2,332	2,293	8,041	8,988	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,727	3,337	-18.0%	1,766	2,352	947	975	14	NM	0	0
Middle Atlantic	6,632	6,238	6.3%	0	0	3,889	3,511	0	0	2,743	2,727
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,460	4,096	8.9%	0	0	3,888	3,508	0	0	572	589
Pennsylvania	2,173	2,142	1.4%	0	0	1	NM	0	0	2,172	2,138
East North Central	13,449	14,204	-5.3%	2,627	2,767	5,571	5,857	0	0	5,251	5,580
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,356	8,934	-6.5%	0	NM	5,248	5,528	0	0	3,108	3,406
Ohio	1,044	1,105	-5.5%	0	0	323	328	0	0	721	777
Wisconsin	4,049	4,164	-2.8%	2,627	2,767	0	0	0	0	1,422	1,397
West North Central	6,027	5,558	8.5%	1,006	1,018	3,095	3,137	236	171	1,690	1,232
Iowa	2	NM	NM	0	0	0	0	2	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	5,808	5,400	7.5%	1,006	1,018	3,095	3,137	16	13	1,690	1,232
Missouri	218	155	40.0%	0	0	0	0	218	155	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	59,586	56,746	5.0%	10,789	10,435	17,931	15,165	44	102	30,823	31,043
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,844	7,270	35.0%	0	0	5,297	2,923	0	0	4,547	4,348
Georgia	14,668	14,819	-1.0%	0	0	3,362	3,638	0	0	11,306	11,181
Maryland	364	425	-14.0%	0	0	0	0	44	102	320	323
North Carolina	7,431	7,559	-1.7%	0	0	4,717	4,332	0	0	2,714	3,227
South Carolina	13,349	13,123	1.7%	2,042	1,876	2,985	3,039	0	0	8,322	8,208
Virginia	13,931	13,549	2.8%	8,747	8,559	1,570	1,233	0	0	3,614	3,757
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	17,876	18,651	-4.2%	0	0	1,123	1,132	0	0	16,754	17,519
Alabama	10,726	11,307	-5.1%	0	0	1,123	1,132	0	0	9,603	10,175
Kentucky	789	872	-9.4%	0	0	0	0	0	0	789	872
Mississippi	4,084	4,128	-1.1%	0	0	0	0	0	0	4,084	4,128
Tennessee	2,278	2,345	-2.9%	0	0	0	0	0	0	2,278	2,345
West South Central	18,434	18,485	-0.3%	0	91	827	644	0	0	17,607	17,750
Arkansas	3,860	3,634	6.2%	0	0	0	0	0	0	3,860	3,634
Louisiana	9,719	10,018	-3.0%	0	0	0	0	0	0	9,719	10,018
Oklahoma	469	591	-21.0%	0	0	0	0	0	0	469	591
Texas	4,385	4,242	3.4%	0	91	827	644	0	0	3,558	3,507
Mountain	4,738	4,744	-0.1%	0	0	2,405	1,990	0	0	2,333	2,755
Arizona	1,441	1,598	-9.8%	0	0	1,441	1,598	0	0	0	0
Colorado	653	NM	NM	0	0	653	NM	0	0	0	0
Idaho	2,365	2,857	-17.0%	0	0	310	371	0	0	2,055	2,486
Montana	278	269	3.4%	0	0	0	0	0	0	278	269
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	34,224	32,349	5.8%	2,098	2,153	21,956	20,799	0	0	10,170	9,397
California	22,957	21,137	8.6%	0	0	20,649	19,522	0	0	2,308	1,615
Oregon	3,274	3,184	2.8%	0	0	1,307	1,277	0	0	1,967	1,907
Washington	7,994	8,027	-0.4%	2,098	2,153	0	0	0	0	5,895	5,875
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	188,521	188,049	0.3%	20,618	21,109	76,883	75,573	328	287	90,692	91,080

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

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2007 - June 2017

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
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	163,946	30,880	872	131,812	20,471	630	32,134	10,409	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	187,486	32,397	1,320	146,459	20,980	1,089	41,026	11,416	231
February	187,575	31,637	1,323	146,224	20,670	1,064	41,351	10,967	259
March	192,269	31,579	1,240	149,113	20,697	974	43,156	10,883	266
April	193,991	31,695	1,181	151,329	20,909	901	42,662	10,786	280
May	193,432	31,925	1,071	151,237	21,114	826	42,195	10,810	246
June	183,248	31,687	905	144,987	20,967	689	38,261	10,720	216
July	169,465	31,190	858	135,110	20,652	678	34,354	10,537	180
August	160,452	34,823	780	129,111	20,402	589	31,341	14,421	190
Sept	158,238	34,768	768	128,419	20,378	566	29,820	14,389	201
October	162,739	34,723	812	132,438	20,268	606	30,301	14,455	207
November	172,208	30,982	833	139,080	20,501	606	33,128	10,480	227
December	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2017, End of Month Stocks									
January	157,359	31,030	827	125,648	20,373	584	31,711	10,657	243
February	161,985	30,549	859	128,557	20,096	606	33,428	10,453	253
March	163,900	29,449	882	129,324	20,105	621	34,577	9,344	261
April	166,236	29,170	952	131,184	19,969	685	35,053	9,201	268
May	164,924	28,780	892	130,139	19,556	625	34,785	9,224	267
June	160,540	28,446	869	127,461	19,474	597	33,079	8,972	272

Notes: See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 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, June 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	June 2017	June 2016	Percentage Change	June 2017	June 2016	Percentage Change	June 2017	June 2016	Percentage Change
New England	W	1,756	W	3,709	4,730	-21.6%	0	0	--
Connecticut	W	W	W	1,233	1,657	-25.6%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,525	1,954	-21.9%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	W	W	W	W	W	W	0	0	--
Vermont	0	0	--	34	51	-33.7%	0	0	--
Middle Atlantic	5,082	6,188	-17.9%	4,791	5,528	-13.3%	0	0	--
New Jersey	551	784	-29.7%	509	706	-27.9%	0	0	--
New York	W	W	W	3,257	3,446	-5.5%	0	0	--
Pennsylvania	W	W	W	1,024	1,376	-25.5%	0	0	--
East North Central	33,748	40,683	-17.0%	806	1,088	-26.0%	357	200	78.6%
Illinois	7,607	9,326	-18.4%	53	81	-34.6%	0	0	--
Indiana	9,746	11,538	-15.5%	89	111	-19.8%	W	0	W
Michigan	4,912	5,562	-11.7%	292	314	-6.8%	W	W	W
Ohio	6,963	9,866	-29.4%	234	350	-33.0%	W	W	W
Wisconsin	4,520	4,390	3.0%	137	233	-41.2%	W	W	W
West North Central	29,463	31,774	-7.3%	659	1,010	-34.7%	0	0	--
Iowa	7,163	8,285	-13.5%	80	142	-43.3%	0	0	--
Kansas	4,369	4,642	-5.9%	112	132	-15.3%	0	0	--
Minnesota	3,974	W	W	80	137	-41.7%	0	0	--
Missouri	8,457	9,312	-9.2%	264	393	-32.9%	0	0	--
Nebraska	3,521	3,367	4.6%	55	105	-47.3%	0	0	--
North Dakota	W	1,938	W	35	44	-21.2%	0	0	--
South Dakota	W	W	W	33	57	-41.5%	0	0	--
South Atlantic	28,334	32,976	-14.1%	11,952	12,217	-2.2%	W	W	W
Delaware	W	W	W	271	460	-41.1%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,818	5,789	-16.8%	5,543	5,284	4.9%	56	118	-52.3%
Georgia	5,366	5,894	-9.0%	785	820	-4.2%	0	0	--
Maryland	2,030	1,548	31.1%	830	874	-5.0%	0	0	--
North Carolina	5,418	6,732	-19.5%	1,216	1,239	-1.8%	0	0	--
South Carolina	4,628	6,043	-23.4%	660	715	-7.7%	0	0	--
Virginia	W	1,207	W	2,516	2,687	-6.4%	0	0	--
West Virginia	4,442	W	W	131	139	-6.1%	W	W	W
East South Central	16,062	17,049	-5.8%	1,915	1,908	0.3%	W	W	W
Alabama	3,169	4,484	-29.3%	329	341	-3.3%	0	0	--
Kentucky	8,553	8,410	1.7%	239	239	-0.3%	W	W	W
Mississippi	1,151	1,191	-3.4%	566	576	-1.8%	0	0	--
Tennessee	3,189	2,963	7.6%	780	752	3.8%	0	0	--
West South Central	23,651	29,316	-19.3%	1,723	1,883	-8.5%	W	W	W
Arkansas	2,861	5,533	-48.3%	W	W	W	0	0	--
Louisiana	2,687	3,381	-20.5%	379	439	-13.6%	W	W	W
Oklahoma	3,823	5,890	-35.1%	W	W	W	0	0	--
Texas	14,281	14,513	-1.6%	1,063	1,171	-9.3%	0	0	--
Mountain	21,237	21,529	-1.4%	351	395	-11.0%	W	W	W
Arizona	3,587	4,260	-15.8%	120	130	-7.2%	0	0	--
Colorado	4,101	5,325	-23.0%	118	121	-2.3%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	17	W	W	W	W
Nevada	W	W	W	5	W	W	0	0	--
New Mexico	W	W	W	30	43	-30.8%	0	0	--
Utah	5,720	4,971	15.1%	35	45	-23.6%	0	0	--
Wyoming	5,142	3,851	33.5%	28	24	14.2%	0	0	--
Pacific Contiguous	W	W	W	344	505	-31.8%	0	0	--
California	0	0	--	155	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	W	261	W	0	0	--
Pacific Noncontiguous	W	W	W	2,197	2,424	-9.4%	0	0	--
Alaska	W	W	W	37	219	-83.1%	0	0	--
Hawaii	W	W	W	2,160	2,205	-2.0%	0	0	--
U.S. Total	160,540	183,248	-12.4%	28,446	31,687	-10.2%	869	905	-4.0%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**June 2017**	**June 2016**	**Percentage Change**	**June 2017**	**June 2016**	**June 2017**	**June 2016**
Coal (Thousand Tons)							
New England	W	1,756	W	W	W	W	W
Middle Atlantic	5,082	6,188	-17.9%	0	0	5,082	6,188
East North Central	33,748	40,683	-17.0%	W	24,795	W	15,888
West North Central	29,463	31,774	-7.3%	29,463	31,774	0	0
South Atlantic	28,334	32,976	-14.1%	25,278	30,357	3,056	2,619
East South Central	16,062	17,049	-5.8%	16,062	17,049	0	0
West South Central	23,651	29,316	-19.3%	14,266	18,976	9,386	10,340
Mountain	21,237	21,529	-1.4%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	**160,540**	**183,248**	**-12.4%**	**127,461**	**144,987**	**33,079**	**38,261**
Petroleum Liquids (Thousand Barrels)							
New England	3,709	4,730	-21.6%	603	717	3,106	4,013
Middle Atlantic	4,791	5,528	-13.3%	1,972	2,185	2,819	3,342
East North Central	806	1,088	-26.0%	591	787	215	301
West North Central	659	1,010	-34.7%	W	987	W	23
South Atlantic	11,952	12,217	-2.2%	9,780	9,888	2,172	2,329
East South Central	1,915	1,908	0.3%	W	W	W	W
West South Central	1,723	1,883	-8.5%	1,321	1,404	401	479
Mountain	351	395	-11.0%	321	W	30	W
Pacific Contiguous	344	505	-31.8%	W	404	W	101
Pacific Noncontiguous	2,197	2,424	-9.4%	W	W	W	W
U.S. Total	**28,446**	**31,687**	**-10.2%**	**19,474**	**20,967**	**8,972**	**10,720**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	357	200	78.6%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	56	118	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	**869**	**905**	**-4.0%**	**W**	**W**	**W**	**W**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2007 - June 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	68,537	91,037	4,371	163,946
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	77,097	105,748	4,640	187,486
February	76,703	106,336	4,536	187,575
March	80,108	107,364	4,797	192,269
April	81,927	106,996	5,068	193,991
May	82,822	105,444	5,166	193,432
June	78,959	99,244	5,046	183,248
July	72,162	92,580	4,723	169,465
August	68,469	87,596	4,386	160,452
Sept	67,066	87,009	4,163	158,238
October	68,439	90,327	3,974	162,739
November	71,824	96,101	4,283	172,208
December	68,537	91,037	4,371	163,946
Year 2017, End of Month Stocks				
January	66,155	86,869	4,335	157,359
February	68,479	89,083	4,424	161,985
March	68,990	90,259	4,651	163,900
April	69,608	91,622	5,005	166,236
May	69,755	89,965	5,204	164,924
June	68,142	87,697	4,701	160,540

Notes: See Glossary for definitions.
Values for 2015 and prior years are final. Values for 2016 and 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 - June 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	12,332,849	638,564	2.12	40.87	1.35	92.2	100,602	16,610	9.36	56.72	0.48	69.9
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	1,019,963	53,356	2.12	40.60	1.33	84.0	8,974	1,499	7.92	47.44	0.46	58.3
February	965,792	49,873	2.11	40.90	1.40	96.0	7,927	1,307	6.98	42.32	0.46	56.0
March	884,181	44,893	2.18	42.88	1.46	108.9	6,862	1,132	6.90	41.82	0.44	73.1
April	793,417	40,144	2.16	42.69	1.46	100.3	8,529	1,404	8.35	50.75	0.41	93.7
May	859,334	43,883	2.16	42.39	1.45	95.0	9,129	1,520	9.79	58.87	0.44	85.7
June	1,008,277	52,327	2.10	40.47	1.35	81.1	7,517	1,247	10.38	62.59	0.49	70.3
July	1,138,678	59,400	2.11	40.53	1.28	78.8	8,993	1,460	11.82	72.81	0.51	59.8
August	1,235,488	63,867	2.11	40.85	1.32	85.1	9,033	1,479	9.44	57.64	0.51	60.9
Sept	1,140,035	59,344	2.12	40.79	1.30	93.5	8,092	1,332	9.40	57.12	0.50	77.5
October	1,125,959	58,765	2.08	39.77	1.28	105.6	8,262	1,370	9.98	60.24	0.53	76.2
November	1,082,191	56,397	2.09	40.03	1.29	114.7	9,437	1,552	10.07	61.25	0.49	89.0
December	1,079,534	56,315	2.08	39.85	1.32	85.2	7,849	1,308	W	W	0.46	61.6
Year 2017												
January	1,081,835	56,573	2.09	40.05	1.26	87.3	9,304	1,546	11.91	71.72	0.46	69.3
February	997,021	52,062	2.07	39.58	1.30	105.8	6,122	1,015	11.61	70.06	0.49	58.6
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.3
April	893,611	46,168	2.11	40.85	1.34	101.5	6,223	1,033	11.59	69.85	0.48	61.3
May	948,234	49,206	2.13	41.01	1.33	94.4	6,481	1,081	W	W	0.48	56.5
June	1,031,599	53,462	2.11	40.72	1.31	88.8	7,209	1,196	W	W	0.47	63.6
Year to Date												
2015	7,445,772	384,732	2.26	43.76	1.31	101.2	78,391	12,944	12.83	77.78	0.51	63.1
2016	5,530,964	284,476	2.14	41.56	1.40	92.5	48,937	8,110	8.43	50.87	0.45	70.5
2017	5,919,298	307,644	2.10	40.38	1.31	95.5	47,329	7,889	11.53	69.16	0.49	70.1
Rolling 12 Months Ending in June												
2016	13,171,399	682,674	2.17	41.81	1.33	99.9	118,193	19,486	9.34	56.65	0.46	84.5
2017	12,721,183	661,731	2.10	40.35	1.31	93.6	98,994	16,390	W	W	0.50	69.7

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

Notes:
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 2015 and prior years are final. Values for 2016 and 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 - June 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	116,935	4,166	1.65	46.23	5.40	78.7	10,605,977	10,258,688	2.88	2.97	90.3	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	9,639	341	1.38	38.93	5.68	81.2	821,744	793,971	3.01	3.12	89.4	2.52
February	11,272	408	1.30	35.80	5.53	98.1	734,227	709,538	2.70	2.79	89.2	2.37
March	10,312	363	1.41	40.14	5.33	76.5	796,031	770,399	2.23	2.31	90.1	2.22
April	10,307	369	1.35	37.75	5.56	80.0	773,827	749,028	2.42	2.50	90.2	2.31
May	8,554	307	1.32	36.76	5.35	69.0	856,800	830,090	2.40	2.47	90.5	2.31
June	6,894	240	1.41	40.48	4.67	52.1	1,019,040	987,371	2.67	2.76	91.0	2.40
July	10,031	355	1.47	41.45	5.14	72.8	1,186,484	1,148,584	2.97	3.07	91.1	2.56
August	11,032	398	1.75	48.48	5.42	78.7	1,204,258	1,162,373	2.96	3.06	91.2	2.53
Sept	10,740	381	2.04	57.51	5.17	85.0	967,740	934,760	3.08	3.19	90.9	2.56
October	8,843	317	1.98	55.43	5.69	88.3	793,786	768,090	3.13	3.24	90.1	2.51
November	9,364	333	2.26	63.60	5.69	87.4	721,768	698,431	3.02	3.12	89.8	2.47
December	9,944	355	2.07	57.94	5.43	82.0	730,273	706,054	3.96	4.10	89.4	W
Year 2017												
January	7,058	251	2.14	60.16	5.67	57.6	607,841	587,377	4.12	4.27	76.9	2.83
February	7,593	271	2.00	56.03	5.85	81.5	534,117	516,936	3.58	3.69	78.0	2.60
March	8,628	309	2.06	57.51	5.29	85.2	616,865	597,210	3.36	3.47	76.1	2.62
April	5,835	208	2.00	55.96	5.34	90.9	576,207	557,625	3.37	3.49	76.9	2.61
May	6,776	242	2.05	57.46	5.57	60.0	645,937	625,781	3.49	3.60	77.3	W
June	8,657	308	W	W	5.55	70.2	762,367	737,860	3.31	3.41	77.9	W
Year to Date												
2015	66,530	2,352	1.94	54.97	5.23	89.2	4,633,076	4,484,118	3.59	3.71	89.8	2.79
2016	56,979	2,028	1.36	38.16	5.39	75.7	5,001,669	4,840,396	2.57	2.66	90.1	2.36
2017	44,548	1,589	W	W	5.55	72.2	3,743,334	3,622,789	3.53	3.65	77.2	W
Rolling 12 Months Ending in June												
2016	129,118	4,573	1.57	44.45	5.32	87.5	10,542,095	10,198,859	2.76	2.86	90.0	2.45
2017	104,504	3,728	W	W	5.47	77.4	9,347,642	9,041,080	3.30	3.41	84.7	W

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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:
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 2015 and prior years are final. Values for 2016 and 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 - June 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	9,200,962	472,909	2.16	42.09	1.22	94.7	73,050	11,943	9.16	56.02	0.45	76.1
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	746,616	38,805	2.17	41.79	1.18	85.0	6,186	1,021	7.88	47.73	0.44	60.6
February	717,946	36,885	2.16	42.04	1.23	97.7	5,810	954	6.92	42.15	0.41	67.6
March	681,849	34,396	2.20	43.57	1.34	110.4	5,220	851	6.69	41.06	0.40	81.4
April	606,778	30,610	2.19	43.51	1.31	106.5	6,895	1,125	8.35	51.19	0.37	110.7
May	651,230	33,180	2.17	42.66	1.26	97.8	6,738	1,114	9.12	55.15	0.40	94.9
June	771,022	39,635	2.15	41.85	1.24	85.3	5,508	908	10.51	63.79	0.44	72.9
July	843,774	43,673	2.18	42.06	1.15	80.5	7,114	1,142	11.54	71.92	0.52	68.1
August	919,918	47,289	2.17	42.27	1.19	87.5	6,733	1,089	9.15	56.56	0.51	66.8
Sept	846,033	43,523	2.18	42.41	1.18	96.8	5,507	895	9.03	55.59	0.49	80.4
October	837,987	43,418	2.13	41.05	1.17	109.7	5,174	845	9.75	59.67	0.52	74.1
November	801,020	41,349	2.13	41.33	1.21	116.9	6,602	1,075	9.79	60.10	0.48	89.7
December	776,790	40,148	2.13	41.24	1.21	84.8	5,562	924	10.73	64.58	0.44	68.4
Year 2017												
January	783,283	40,654	2.14	41.32	1.15	86.5	6,498	1,069	11.09	67.38	0.44	71.5
February	732,713	38,088	2.11	40.63	1.20	106.1	4,563	754	11.53	69.80	0.46	63.7
March	702,185	36,293	2.13	41.15	1.21	100.7	10,468	1,759	11.58	68.94	0.53	131.1
April	646,292	33,094	2.15	41.91	1.22	103.9	4,679	774	11.38	68.84	0.46	63.8
May	698,108	35,802	2.16	42.16	1.22	94.8	4,608	763	11.38	68.72	0.45	58.4
June	780,770	40,045	2.13	41.61	1.20	90.6	5,560	915	10.86	66.00	0.47	71.1
Year to Date												
2015	5,479,873	281,633	2.28	44.34	1.19	104.0	49,220	8,076	12.44	75.83	0.48	75.0
2016	4,175,441	213,511	2.17	42.51	1.26	95.5	36,358	5,972	8.27	50.36	0.41	78.8
2017	4,343,351	223,975	2.14	41.45	1.20	96.2	36,377	6,034	11.33	68.28	0.48	77.1
Rolling 12 Months Ending in June												
2016	9,784,198	503,585	2.20	42.85	1.19	102.1	77,179	12,643	9.17	55.99	0.42	81.9
2017	9,368,872	483,373	2.15	41.61	1.19	95.1	73,069	12,004	10.68	65.00	0.49	75.3

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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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - June 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	42.77	5.38	103.1	5,059,987	4,892,902	3.15	3.26	96.8	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	394,006	381,192	3.27	3.38	97.3	2.57
February	9,837	356	1.13	31.18	5.53	131.0	355,300	343,232	2.96	3.07	97.0	2.44
March	8,402	294	1.21	34.47	5.28	103.8	382,382	370,058	2.53	2.61	97.3	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,760	356,152	2.72	2.80	97.5	2.42
May	7,842	281	1.22	34.16	5.35	94.9	411,449	398,370	2.68	2.77	97.0	2.40
June	6,325	220	1.33	38.34	4.59	71.4	500,006	484,203	2.88	2.97	96.4	2.47
July	9,587	340	1.43	40.50	5.10	104.6	569,055	550,931	3.20	3.31	95.4	2.63
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	95.7	2.60
Sept	9,059	320	1.96	55.58	5.12	102.8	456,568	440,900	3.43	3.55	96.8	2.64
October	7,088	253	1.87	52.47	5.71	146.9	368,564	356,539	3.54	3.65	96.6	2.58
November	7,871	279	2.22	62.85	5.74	116.3	338,187	326,505	3.37	3.49	98.0	2.54
December	8,017	284	1.99	56.17	5.39	108.8	347,451	335,619	4.15	4.30	97.8	2.79
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,225	278,482	4.34	4.49	84.7	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	86.2	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,742	288,239	3.56	3.67	83.3	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,428	272,355	3.52	3.63	83.8	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,832	313,928	3.71	3.82	84.4	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,281	356,626	3.58	3.69	82.6	2.63
Year to Date												
2015	54,530	1,919	1.89	53.63	5.23	123.8	2,156,111	2,088,399	3.81	3.94	96.3	2.77
2016	48,778	1,729	1.19	33.56	5.37	96.7	2,410,902	2,333,208	2.84	2.93	97.1	2.44
2017	44,277	1,580	2.07	57.95	5.55	113.5	1,810,145	1,752,264	3.74	3.87	84.0	2.65
Rolling 12 Months Ending in June												
2016	110,176	3,879	1.45	41.33	5.29	115.3	4,972,538	4,809,848	3.06	3.17	96.4	2.52
2017	95,205	3,389	1.94	54.54	5.47	111.6	4,459,231	4,311,959	3.56	3.68	91.0	2.64

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - June 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	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6
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	258,912	13,908	1.95	36.22	1.73	85.3	2,646	456	7.85	45.72	0.42	67.7
February	235,185	12,416	1.93	36.54	1.93	97.4	1,842	308	6.92	41.44	0.47	43.3
March	187,520	9,832	2.05	39.03	1.91	113.8	1,471	254	7.48	43.40	0.47	68.0
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.1
May	195,458	10,130	2.10	40.44	2.08	91.5	2,306	392	11.84	69.78	0.48	95.5
June	223,442	12,073	1.88	34.83	1.74	71.9	1,819	308	10.07	59.42	0.47	85.8
July	281,765	15,130	1.90	35.31	1.68	76.2	1,819	309	12.97	76.45	0.45	56.4
August	301,966	15,952	1.90	35.92	1.73	80.8	2,242	380	10.26	60.55	0.48	64.2
Sept	283,296	15,336	1.92	35.53	1.66	88.0	2,465	418	10.16	59.95	0.49	91.2
October	275,084	14,756	1.89	35.17	1.63	98.3	2,860	487	10.39	61.10	0.49	110.6
November	270,983	14,587	1.92	35.71	1.54	114.5	2,625	441	10.76	64.02	0.47	115.1
December	291,318	15,642	1.92	35.67	1.61	89.4	2,183	367	W	W	0.50	64.9
Year 2017												
January	283,569	15,216	1.93	36.03	1.54	92.4	2,679	456	13.98	82.08	0.47	89.2
February	249,202	13,269	1.90	35.70	1.59	108.7	1,438	241	W	W	0.50	61.6
March	247,658	13,058	1.93	36.69	1.75	101.6	1,344	231	12.02	69.90	0.44	78.0
April	231,929	12,350	1.97	37.09	1.66	98.2	1,383	233	W	W	0.44	76.3
May	234,471	12,642	1.99	36.90	1.67	95.2	1,718	293	W	W	0.45	69.6
June	235,649	12,697	2.00	37.15	1.68	85.2	1,507	258	W	W	0.42	61.4
Year to Date												
2015	1,833,117	97,000	2.17	41.04	1.67	96.8	27,882	4,657	13.51	81.03	0.49	58.6
2016	1,274,681	67,338	1.98	37.40	1.88	88.9	11,541	1,967	8.84	51.94	0.47	68.6
2017	1,482,479	79,231	1.95	36.56	1.65	96.3	10,069	1,713	12.28	72.21	0.46	73.0
Rolling 12 Months Ending in June												
2016	3,173,072	169,320	2.01	37.66	1.74	97.6	38,906	6,499	W	W	0.45	117.1
2017	3,186,890	170,634	1.93	36.03	1.64	92.5	24,263	4,115	W	W	0.47	77.2

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - June 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	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	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	1,304	49	W	W	5.70	184.5	362,702	349,843	2.78	2.88	92.2	W
February	1,313	47	W	W	5.44	97.1	321,535	310,739	2.43	2.51	93.4	W
March	1,337	48	W	W	5.37	65.2	352,243	340,715	1.90	1.96	94.1	W
April	1,203	44	W	W	5.30	88.4	344,777	333,405	2.07	2.14	93.7	W
May	505	18	W	W	5.28	30.6	384,336	372,428	2.04	2.11	94.3	W
June	348	12	W	W	5.32	20.5	456,773	442,681	2.42	2.50	94.3	W
July	223	8	W	W	5.67	12.1	551,548	533,794	2.67	2.76	94.6	W
August	1,509	55	W	W	5.24	77.2	568,632	549,115	2.63	2.72	94.6	W
Sept	1,482	53	W	W	5.43	90.6	448,557	433,304	2.63	2.72	94.3	W
October	1,548	56	W	W	5.59	78.5	361,739	349,983	2.62	2.71	94.0	W
November	1,294	46	W	W	5.43	83.4	317,947	308,170	2.60	2.68	93.3	W
December	1,500	55	W	W	5.50	84.2	314,419	304,102	3.83	3.96	93.5	W
Year 2017												
January	0	0	--	--	--	0.0	260,846	252,069	3.96	4.09	81.2	2.85
February	0	0	--	--	--	0.0	228,800	221,341	3.33	3.44	82.4	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	79.5	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.18	3.29	80.8	W
May	0	0	--	--	--	0.0	269,235	260,637	3.20	3.30	80.2	W
June	0	0	--	--	--	0.0	339,115	328,000	2.93	3.03	81.5	W
Year to Date												
2015	7,031	251	2.41	67.46	5.02	62.6	2,099,935	2,031,161	3.41	3.52	93.0	W
2016	6,010	218	2.50	68.79	5.43	68.9	2,222,366	2,149,811	2.28	2.35	93.7	W
2017	0	0	--	--	--	0.0	1,603,115	1,550,876	3.29	3.40	80.9	2.60
Rolling 12 Months Ending in June												
2016	13,529	491	W	W	5.46	70.6	4,805,722	4,648,845	2.43	2.51	93.6	W
2017	7,556	274	W	W	5.45	40.2	4,165,958	4,029,344	2.97	3.07	88.6	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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - June 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	8.2	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	7.0	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.6	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	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	8.0	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.7	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.1	0	0	--	--	--	0.0
December	214	9	W	W	3.05	13.2	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.9	0	0	--	--	--	0.0
March	104	5	W	W	3.02	8.3	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.3	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.8	0	0	--	--	--	0.0
Year to Date												
2015	1,579	71	2.81	62.09	2.38	16.2	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	5.3	0	0	--	--	--	0.0
2017	336	15	W	W	3.00	5.2	0	0	--	--	--	0.0
Rolling 12 Months Ending in June												
2016	1,294	56	W	W	2.88	7.8	0	0	--	--	--	0.0
2017	1,190	52	W	W	3.06	8.6	0	0	--	--	--	0.0

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

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - June 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	6.7	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	11.6	W
February	0	0	--	--	--	0.0	488	477	W	W	5.2	W
March	0	0	--	--	--	0.0	620	610	W	W	6.4	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.4	W
June	0	0	--	--	--	0.0	599	585	W	W	6.0	W
July	0	0	--	--	--	0.0	691	667	W	W	6.2	W
August	0	0	--	--	--	0.0	802	765	W	W	7.0	W
Sept	0	0	--	--	--	0.0	610	591	W	W	6.1	W
October	0	0	--	--	--	0.0	598	575	W	W	6.6	W
November	0	0	--	--	--	0.0	613	589	W	W	6.5	W
December	0	0	--	--	--	0.0	568	549	W	W	5.6	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.7	W
February	0	0	--	--	--	0.0	646	624	W	W	6.4	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.8	W
May	0	0	--	--	--	0.0	497	483	W	W	5.5	W
June	0	0	--	--	--	0.0	615	595	W	W	6.2	W
Year to Date												
2015	0	0	--	--	--	0.0	2,805	2,764	W	W	5.1	W
2016	0	0	--	--	--	0.0	4,125	4,029	W	W	7.0	W
2017	0	0	--	--	--	0.0	3,601	3,492	W	W	6.0	W
Rolling 12 Months Ending in June												
2016	0	0	--	--	--	0.0	7,819	7,636	W	W	6.4	W
2017	0	0	--	--	--	0.0	7,482	7,228	W	W	6.1	W

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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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - June 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	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3
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	14,296	638	W	W	1.51	42.4	142	23	10.87	67.07	1.55	12.2
February	12,538	566	W	W	1.62	40.6	274	45	8.45	51.85	1.10	25.0
March	14,648	658	W	W	1.42	48.0	170	28	8.30	51.02	1.13	23.4
April	12,466	554	W	W	1.59	55.1	177	29	W	W	1.35	24.2
May	12,645	573	2.76	60.98	1.52	49.9	84	14	11.02	66.30	1.65	8.3
June	13,814	619	2.78	62.01	1.38	51.1	190	31	9.59	58.65	1.48	20.3
July	13,139	597	2.77	61.02	1.36	48.4	60	10	10.18	62.12	1.02	5.0
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.4
Sept	10,554	477	W	W	1.37	45.3	120	20	11.04	66.33	1.01	15.4
October	12,729	585	W	W	1.43	58.9	228	37	10.22	62.63	1.14	19.0
November	9,951	451	W	W	1.46	45.2	210	35	10.40	61.84	1.26	24.6
December	11,213	516	W	W	1.49	44.6	103	17	10.53	63.57	0.88	9.4
Year 2017												
January	14,872	698	W	W	1.31	54.2	128	21	11.64	72.27	1.06	12.4
February	15,014	702	W	W	1.10	64.7	121	19	W	W	1.36	16.5
March	17,051	819	W	W	1.28	71.6	178	29	10.66	66.36	1.22	21.8
April	15,389	724	W	W	1.17	70.8	160	26	W	W	1.27	18.2
May	15,645	762	W	W	1.10	71.1	155	25	W	W	1.21	16.6
June	15,163	720	W	W	1.32	66.4	142	23	W	W	1.11	15.7
Year to Date												
2015	131,203	6,027	2.76	60.10	1.35	69.3	1,289	211	14.17	86.73	1.40	15.5
2016	80,408	3,608	W	W	1.50	47.3	1,038	170	9.27	56.66	1.31	18.3
2017	93,133	4,424	W	W	1.21	66.1	883	142	11.18	69.71	1.21	16.7
Rolling 12 Months Ending in June												
2016	212,834	9,713	W	W	1.41	61.0	2,107	344	W	W	1.38	18.6
2017	164,232	7,672	W	W	1.29	57.4	1,662	271	W	W	1.14	14.4

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.

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

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - June 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	11.8	752,775	729,741	W	W	58.1	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	16.5	63,795	61,733	W	W	57.6	W
February	122	4	W	W	6.10	4.7	56,903	55,089	W	W	55.3	W
March	574	21	W	W	5.88	18.2	60,786	59,017	W	W	57.3	W
April	669	25	W	W	5.81	29.0	60,713	58,903	W	W	58.9	W
May	206	8	W	W	5.64	8.6	60,417	58,704	W	W	57.4	W
June	222	8	W	W	5.94	8.4	61,662	59,902	W	W	57.7	W
July	222	8	W	W	5.94	8.0	65,190	63,191	W	W	58.3	W
August	217	8	W	W	5.81	8.2	65,565	63,294	W	W	58.0	W
Sept	200	8	W	W	5.64	9.9	62,004	59,964	W	W	57.5	W
October	207	8	W	W	5.66	6.8	62,885	60,993	W	W	59.8	W
November	200	8	W	W	5.47	9.0	65,021	63,167	W	W	59.9	W
December	427	16	W	W	5.99	15.1	67,835	65,784	W	W	58.9	W
Year 2017												
January	0	0	--	--	--	0.0	58,108	56,186	W	W	49.4	W
February	0	0	--	--	--	0.0	54,035	52,337	W	W	51.1	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	49.3	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	49.7	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	49.2	W
June	271	9	W	W	5.75	9.1	54,356	52,640	W	W	50.7	W
Year to Date												
2015	4,968	182	W	W	5.60	26.9	374,225	361,794	W	W	62.0	W
2016	2,192	80	W	W	5.87	14.2	364,276	353,348	W	W	57.4	W
2017	271	9	W	W	5.75	1.9	326,473	316,157	W	W	49.9	W
Rolling 12 Months Ending in June												
2016	5,413	202	W	W	5.55	17.6	756,015	732,529	W	W	58.4	W
2017	1,743	64	W	W	5.78	5.9	714,972	692,550	W	W	54.3	W

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

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- 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, June 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	2	25	-93.0%	0	20	2	3	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	2	4	-61.0%	0	0	2	3	0	0	0	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	20	-100.0%	0	20	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	1,829	1,576	16.0%	0	0	1,802	1,543	0	0	28	33
New Jersey	66	52	27.0%	0	0	66	52	0	0	0	0
New York	41	70	-41.0%	0	0	25	45	0	0	16	25
Pennsylvania	1,722	1,455	18.0%	0	0	1,711	1,446	0	0	11	8
East North Central	11,855	11,620	2.0%	7,844	7,245	3,847	4,210	0	0	164	166
Illinois	3,021	3,115	-3.0%	635	726	2,236	2,258	0	0	150	131
Indiana	2,653	2,520	5.3%	2,560	2,384	93	136	0	0	0	0
Michigan	2,476	1,895	31.0%	2,458	1,876	18	19	0	0	0	0
Ohio	2,037	2,462	-17.0%	537	652	1,500	1,797	0	0	0	12
Wisconsin	1,668	1,627	2.5%	1,654	1,605	0	0	0	0	14	22
West North Central	9,067	9,527	-4.8%	8,782	9,413	0	0	1	0	284	114
Iowa	1,378	1,561	-12.0%	1,173	1,448	0	0	0	0	205	114
Kansas	834	1,201	-31.0%	834	1,201	0	0	0	0	0	0
Minnesota	1,006	760	32.0%	1,006	760	0	0	0	0	0	0
Missouri	2,859	2,931	-2.4%	2,858	2,931	0	0	1	0	0	0
Nebraska	1,128	1,053	7.1%	1,049	1,053	0	0	0	0	79	0
North Dakota	1,749	1,921	-9.0%	1,749	1,921	0	0	0	0	0	0
South Dakota	114	99	15.0%	114	99	0	0	0	0	0	0
South Atlantic	7,810	7,254	7.7%	7,157	6,552	586	633	0	0	67	68
Delaware	12	27	-57.0%	0	0	12	27	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,505	1,179	28.0%	1,494	1,128	0	52	0	0	11	0
Georgia	1,502	1,471	2.1%	1,489	1,458	0	0	0	0	12	13
Maryland	280	275	1.6%	0	0	267	259	0	0	13	16
North Carolina	1,068	829	29.0%	1,047	829	2	0	0	0	19	0
South Carolina	615	651	-5.5%	615	644	0	0	0	0	0	8
Virginia	437	539	-19.0%	391	488	34	23	0	0	12	28
West Virginia	2,391	2,281	4.8%	2,119	2,006	272	272	0	0	0	3
East South Central	5,500	5,588	-1.6%	5,226	5,180	196	309	0	0	77	99
Alabama	1,427	1,453	-1.8%	1,427	1,453	0	0	0	0	0	0
Kentucky	2,668	2,939	-9.2%	2,668	2,939	0	0	0	0	0	0
Mississippi	353	331	6.7%	157	21	196	309	0	0	0	0
Tennessee	1,052	865	22.0%	975	767	0	0	0	0	77	99
West South Central	10,060	9,224	9.1%	4,677	4,556	5,347	4,663	0	0	36	5
Arkansas	1,371	1,078	27.0%	1,218	924	148	149	0	0	5	5
Louisiana	717	592	21.0%	453	495	264	97	0	0	0	0
Oklahoma	703	783	-10.0%	589	676	83	108	0	0	30	0
Texas	7,269	6,771	7.3%	2,416	2,462	4,853	4,310	0	0	0	0
Mountain	6,945	7,230	-3.9%	6,358	6,546	566	625	0	0	20	58
Arizona	1,189	1,067	11.0%	1,189	1,067	0	0	0	0	0	0
Colorado	1,302	1,239	5.1%	1,302	1,239	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	449	566	-21.0%	25	0	424	566	0	0	0	0
Nevada	61	59	3.3%	0	0	61	59	0	0	0	0
New Mexico	901	1,163	-23.0%	901	1,163	0	0	0	0	0	0
Utah	1,058	1,181	-10.0%	1,002	1,122	36	0	0	0	20	58
Wyoming	1,986	1,955	1.5%	1,940	1,955	46	0	0	0	0	0
Pacific Contiguous	334	272	23.0%	0	110	290	85	0	0	44	77
California	44	77	-42.0%	0	0	0	0	0	0	44	77
Oregon	0	110	-100.0%	0	110	0	0	0	0	0	0
Washington	290	85	240.0%	0	0	290	85	0	0	0	0
Pacific Noncontiguous	61	12	418.0%	0	12	61	0	0	0	0	0
Alaska	0	12	-100.0%	0	12	0	0	0	0	0	0
Hawaii	61	0	--	0	0	61	0	0	0	0	0
U.S. Total	53,462	52,327	2.2%	40,045	39,635	12,697	12,073	1	0	720	619

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Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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) June 2017 and 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	166	645	-74.0%	45	53	121	586	0	0	0	7
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	34	42	-18.0%	0	0	34	35	0	0	0	7
Massachusetts	87	466	-81.0%	0	0	87	466	0	0	0	0
New Hampshire	45	53	-15.0%	45	53	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	10,183	8,944	14.0%	0	0	9,994	8,739	0	0	189	205
New Jersey	319	283	13.0%	0	0	319	283	0	0	0	0
New York	218	191	14.0%	0	0	95	45	0	0	123	146
Pennsylvania	9,647	8,470	14.0%	0	0	9,581	8,411	0	0	66	59
East North Central	66,462	63,217	5.1%	40,284	37,089	25,188	24,921	0	0	990	1,207
Illinois	19,765	17,900	10.0%	4,011	3,661	14,809	13,378	0	0	945	862
Indiana	14,106	14,339	-1.6%	13,390	13,376	715	963	0	0	0	0
Michigan	10,610	8,928	19.0%	10,516	8,830	90	88	0	0	5	10
Ohio	12,810	14,260	-10.0%	3,236	3,644	9,574	10,492	0	0	0	124
Wisconsin	9,171	7,790	18.0%	9,131	7,579	0	0	0	0	40	211
West North Central	54,033	52,779	2.4%	52,366	52,153	0	0	15	19	1,653	607
Iowa	6,756	8,043	-16.0%	5,674	7,437	0	0	0	0	1,082	607
Kansas	5,244	6,069	-14.0%	5,244	6,069	0	0	0	0	0	0
Minnesota	5,957	5,116	16.0%	5,765	5,116	0	0	0	0	192	0
Missouri	17,979	16,469	9.2%	17,964	16,450	0	0	15	19	0	0
Nebraska	6,365	5,928	7.4%	5,985	5,928	0	0	0	0	379	0
North Dakota	11,085	10,554	5.0%	11,085	10,554	0	0	0	0	0	0
South Dakota	648	601	8.0%	648	601	0	0	0	0	0	0
South Atlantic	44,895	44,492	0.9%	39,470	39,083	4,897	4,927	0	0	528	483
Delaware	200	157	27.0%	0	0	200	157	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,826	6,575	19.0%	7,740	6,438	13	137	0	0	74	0
Georgia	8,555	7,842	9.1%	8,503	7,773	0	0	0	0	53	69
Maryland	2,013	2,130	-5.5%	0	0	1,913	2,010	0	0	100	119
North Carolina	6,671	4,735	41.0%	6,470	4,735	30	0	0	0	171	0
South Carolina	3,446	4,418	-22.0%	3,427	4,352	0	0	0	0	19	66
Virginia	3,033	3,830	-21.0%	2,729	3,486	192	182	0	0	111	162
West Virginia	13,151	14,805	-11.0%	10,601	12,299	2,550	2,440	0	0	0	66
East South Central	30,920	30,118	2.7%	29,054	28,064	1,372	1,396	0	0	494	659
Alabama	7,491	7,285	2.8%	7,491	7,285	0	0	0	0	0	0
Kentucky	17,233	17,597	-2.1%	17,233	17,597	0	0	0	0	0	0
Mississippi	1,868	1,642	14.0%	496	247	1,372	1,396	0	0	0	0
Tennessee	4,328	3,594	20.0%	3,834	2,936	0	0	0	0	494	659
West South Central	56,920	42,844	33.0%	24,696	21,071	31,990	21,743	0	0	234	30
Arkansas	5,815	5,737	1.4%	5,433	4,786	345	922	0	0	37	30
Louisiana	4,364	3,117	40.0%	2,657	2,367	1,708	750	0	0	0	0
Oklahoma	3,796	4,428	-14.0%	3,114	3,926	485	503	0	0	197	0
Texas	42,944	29,562	45.0%	13,492	9,993	29,452	19,569	0	0	0	0
Mountain	42,110	39,383	6.9%	37,820	35,546	4,261	3,743	0	0	29	94
Arizona	7,585	6,434	18.0%	7,585	6,434	0	0	0	0	0	0
Colorado	7,731	7,283	6.2%	7,731	7,283	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,651	3,523	3.6%	137	0	3,514	3,523	0	0	0	0
Nevada	288	424	-32.0%	0	204	288	220	0	0	0	0
New Mexico	5,428	4,867	12.0%	5,428	4,867	0	0	0	0	0	0
Utah	6,012	6,098	-1.4%	5,785	6,004	198	0	0	0	29	94
Wyoming	11,416	10,754	6.2%	11,155	10,754	261	0	0	0	0	0
Pacific Contiguous	1,579	1,586	-0.4%	165	345	1,107	924	0	0	307	317
California	307	317	-3.1%	0	0	0	0	0	0	307	317
Oregon	165	345	-52.0%	165	345	0	0	0	0	0	0
Washington	1,107	924	20.0%	0	0	1,107	924	0	0	0	0
Pacific Noncontiguous	375	469	-20.0%	75	107	300	361	0	0	0	0
Alaska	75	107	-30.0%	75	107	0	0	0	0	0	0
Hawaii	300	361	-17.0%	0	0	300	361	0	0	0	0
U.S. Total	307,644	284,476	8.1%	223,975	213,511	79,231	67,338	15	19	4,424	3,608

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	1	39	-98.0%	0	1	0	38	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	-28.0%	0	0	0	0	0	0	0	0
Massachusetts	0	38	-100.0%	0	0	0	38	0	0	0	0
New Hampshire	0	1	-89.0%	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	36	49	-28.0%	1	0	28	48	0	0	7	1
New Jersey	1	2	-71.0%	0	0	1	2	0	0	0	0
New York	8	3	197.0%	1	0	4	2	0	0	2	1
Pennsylvania	27	44	-38.0%	0	0	23	44	0	0	5	0
East North Central	73	79	-7.4%	57	48	14	25	0	0	2	6
Illinois	7	14	-50.0%	1	1	6	13	0	0	0	0
Indiana	27	17	58.0%	27	17	0	0	0	0	0	0
Michigan	10	17	-39.0%	9	14	0	0	0	0	1	3
Ohio	20	24	-19.0%	12	9	8	12	0	0	1	3
Wisconsin	10	7	32.0%	10	7	0	0	0	0	0	0
West North Central	42	43	-1.9%	42	43	0	0	0	0	0	0
Iowa	11	18	-43.0%	11	18	0	0	0	0	0	0
Kansas	7	6	16.0%	7	6	0	0	0	0	0	0
Minnesota	5	2	127.0%	5	2	0	0	0	0	0	0
Missouri	6	7	-14.0%	6	7	0	0	0	0	0	0
Nebraska	0	1	-70.0%	0	1	0	0	0	0	0	0
North Dakota	13	9	55.0%	13	9	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	172	240	-28.0%	137	180	21	36	0	0	14	23
Delaware	2	2	-0.5%	0	0	2	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19	84	-78.0%	16	84	0	0	0	0	3	0
Georgia	17	21	-18.0%	15	10	0	0	0	0	2	11
Maryland	17	10	72.0%	0	0	17	10	0	0	0	0
North Carolina	15	20	-25.0%	12	20	0	0	0	0	3	0
South Carolina	11	31	-64.0%	8	21	0	0	0	0	3	10
Virginia	72	33	117.0%	67	6	2	25	0	0	3	2
West Virginia	20	40	-49.0%	20	40	0	0	0	0	0	0
East South Central	35	39	-10.0%	35	38	0	0	0	0	0	1
Alabama	3	5	-51.0%	3	5	0	0	0	0	0	0
Kentucky	13	13	-1.9%	13	13	0	0	0	0	0	0
Mississippi	2	2	2.0%	2	2	0	0	0	0	0	0
Tennessee	18	19	-5.4%	18	18	0	0	0	0	0	1
West South Central	15	31	-53.0%	6	20	9	11	0	0	0	0
Arkansas	7	9	-28.0%	2	5	5	4	0	0	0	0
Louisiana	0	3	-100.0%	0	3	0	0	0	0	0	0
Oklahoma	0	2	-100.0%	0	2	0	0	0	0	0	0
Texas	8	17	-55.0%	4	11	4	7	0	0	0	0
Mountain	11	26	-59.0%	11	24	0	2	0	0	0	0
Arizona	1	2	-77.0%	1	2	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	0	2	-100.0%	0	0	0	2	0	0	0	0
Nevada	4	5	-16.0%	4	4	0	0	0	0	0	0
New Mexico	2	5	-61.0%	2	5	0	0	0	0	0	0
Utah	2	2	-26.0%	2	2	0	0	0	0	0	0
Wyoming	3	9	-67.0%	3	9	0	0	0	0	0	0
Pacific Contiguous	0	5	-100.0%	0	0	0	5	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	5	-100.0%	0	0	0	5	0	0	0	0
Pacific Noncontiguous	812	696	17.0%	626	553	186	143	0	0	0	0
Alaska	0	1	-100.0%	0	1	0	0	0	0	0	0
Hawaii	812	696	17.0%	626	553	186	143	0	0	0	0
U.S. Total	1,196	1,247	-4.1%	915	908	258	308	0	0	23	31

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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) June 2017 and 2016 (Thousand Barrels)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	192	198	-2.9%	9	71	183	124	0	0	0	2
Connecticut	20	25	-22.0%	0	0	20	25	0	0	0	0
Maine	85	15	477.0%	0	0	85	12	0	0	0	2
Massachusetts	78	144	-46.0%	0	65	78	78	0	0	0	0
New Hampshire	9	6	57.0%	9	6	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	468	353	33.0%	172	15	248	329	0	0	48	9
New Jersey	3	7	-63.0%	0	0	3	7	0	0	0	0
New York	273	148	84.0%	172	15	83	127	0	0	17	6
Pennsylvania	193	198	-2.5%	0	0	162	195	0	0	31	3
East North Central	378	493	-23.0%	227	270	137	205	0	0	14	18
Illinois	48	73	-34.0%	2	2	46	71	0	0	0	0
Indiana	100	102	-1.5%	100	102	0	0	0	0	0	0
Michigan	61	96	-36.0%	54	91	0	0	0	0	7	5
Ohio	147	199	-26.0%	49	52	90	134	0	0	8	13
Wisconsin	21	23	-7.8%	21	23	0	0	0	0	0	0
West North Central	221	186	19.0%	221	186	0	0	0	0	0	0
Iowa	55	52	6.7%	55	52	0	0	0	0	0	0
Kansas	49	22	119.0%	49	22	0	0	0	0	0	0
Minnesota	15	10	39.0%	15	10	0	0	0	0	0	0
Missouri	44	57	-24.0%	44	57	0	0	0	0	0	0
Nebraska	0	2	-90.0%	0	2	0	0	0	0	0	0
North Dakota	53	39	36.0%	53	39	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	1,772	1,982	-11.0%	1,560	1,490	136	356	0	0	75	136
Delaware	8	45	-83.0%	0	0	8	45	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,150	291	294.0%	1,133	291	0	0	0	0	17	0
Georgia	94	166	-43.0%	73	101	3	31	0	0	18	35
Maryland	68	114	-40.0%	0	0	68	114	0	0	0	0
North Carolina	158	185	-15.0%	140	124	1	61	0	0	17	0
South Carolina	61	183	-67.0%	48	96	0	0	0	0	13	88
Virginia	149	890	-83.0%	82	771	56	105	0	0	10	14
West Virginia	85	107	-21.0%	85	107	0	0	0	0	0	0
East South Central	203	245	-17.0%	195	230	4	10	0	0	4	5
Alabama	25	49	-48.0%	21	38	4	10	0	0	0	0
Kentucky	91	97	-6.2%	91	97	0	0	0	0	0	0
Mississippi	10	16	-40.0%	10	16	0	0	0	0	0	0
Tennessee	77	83	-8.0%	73	79	0	0	0	0	4	5
West South Central	121	161	-25.0%	48	125	73	36	0	0	0	0
Arkansas	51	44	15.0%	16	33	35	11	0	0	0	0
Louisiana	0	48	-100.0%	0	46	0	2	0	0	0	0
Oklahoma	3	3	24.0%	3	3	0	0	0	0	0	0
Texas	67	67	0.1%	29	44	38	23	0	0	0	0
Mountain	171	181	-5.2%	158	170	13	11	0	0	0	0
Arizona	31	52	-39.0%	31	52	0	0	0	0	0	0
Colorado	1	10	-88.0%	1	10	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	9	-8.9%	0	0	8	9	0	0	0	0
Nevada	8	12	-33.0%	4	9	4	2	0	0	0	0
New Mexico	35	50	-30.0%	35	50	0	0	0	0	0	0
Utah	42	15	186.0%	40	15	2	0	0	0	0	0
Wyoming	46	34	33.0%	46	34	0	0	0	0	0	0
Pacific Contiguous	14	7	115.0%	7	0	7	7	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	7	0	--	7	0	0	0	0	0	0	0
Washington	7	7	7.8%	0	0	7	7	0	0	0	0
Pacific Noncontiguous	4,350	4,305	1.0%	3,437	3,416	913	889	0	0	0	0
Alaska	1	4	-83.0%	1	4	0	0	0	0	0	0
Hawaii	4,349	4,301	1.1%	3,437	3,412	913	889	0	0	0	0
U.S. Total	7,889	8,110	-2.7%	6,034	5,972	1,713	1,967	0	0	142	170

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 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	47	29	62.0%	47	17	0	12	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	41	15	178.0%	41	15	0	0	0	0	0	0
Ohio	0	12	-100.0%	0	0	0	12	0	0	0	0
Wisconsin	6	2	211.0%	6	2	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	82	125	-35.0%	82	117	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	82	117	-30.0%	82	117	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	3	0	--	3	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	3	0	--	3	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	166	86	94.0%	166	86	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	166	86	94.0%	166	86	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	308	240	28.0%	298	220	0	12	0	0	9	8

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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 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) June 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 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	243	552	-56.0%	243	315	0	218	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	228	142	61.0%	228	142	0	0	0	0	0	0
Ohio	0	218	-100.0%	0	0	0	218	0	0	0	0
Wisconsin	16	30	-47.0%	16	12	0	0	0	0	0	18
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	282	748	-62.0%	282	685	0	0	0	0	0	62
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	282	685	-59.0%	282	685	0	0	0	0	0	0
Georgia	0	62	-100.0%	0	0	0	0	0	0	0	62
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	937	681	38.0%	937	681	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	937	681	38.0%	937	681	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,589	2,028	-22.0%	1,580	1,729	0	218	0	0	9	80

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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:
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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, June 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	23,005	35,019	-34.0%	181	57	22,824	34,962	0	0	0	0
Connecticut	7,221	8,886	-19.0%	0	0	7,221	8,886	0	0	0	0
Maine	1	1,781	-100.0%	0	0	1	1,781	0	0	0	0
Massachusetts	11,896	16,753	-29.0%	129	30	11,767	16,722	0	0	0	0
New Hampshire	2,506	2,856	-12.0%	52	27	2,454	2,829	0	0	0	0
Rhode Island	1,381	4,743	-71.0%	0	0	1,381	4,743	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	78,600	113,604	-31.0%	8,117	10,950	70,108	102,461	0	0	375	194
New Jersey	13,821	28,810	-52.0%	0	0	13,821	28,810	0	0	0	0
New York	30,248	39,768	-24.0%	8,117	10,950	21,905	28,757	0	0	226	62
Pennsylvania	34,531	45,027	-23.0%	0	0	34,382	44,895	0	0	149	132
East North Central	50,752	74,931	-32.0%	19,723	34,865	29,682	38,774	452	419	895	873
Illinois	6,766	12,187	-44.0%	18	1,382	6,745	10,802	0	0	2	3
Indiana	8,441	13,073	-35.0%	7,586	11,034	856	2,039	0	0	0	0
Michigan	15,098	21,002	-28.0%	3,298	7,485	11,009	12,594	452	419	339	505
Ohio	14,681	17,786	-17.0%	4,370	5,480	9,974	12,197	0	0	337	108
Wisconsin	5,766	10,883	-47.0%	4,451	9,485	1,098	1,142	0	0	217	257
West North Central	4,507	19,483	-77.0%	4,234	16,205	45	3,112	143	166	86	0
Iowa	1,668	2,564	-35.0%	1,594	2,564	0	0	0	0	75	0
Kansas	1,704	2,622	-35.0%	1,704	2,622	0	0	0	0	0	0
Minnesota	104	6,001	-98.0%	47	4,547	45	1,452	0	1	11	0
Missouri	614	6,513	-91.0%	472	4,688	0	1,660	142	165	0	0
Nebraska	235	997	-76.0%	235	997	0	0	0	0	0	0
North Dakota	182	216	-16.0%	182	216	0	0	0	0	0	0
South Dakota	0	571	-100.0%	0	571	0	0	0	0	0	0
South Atlantic	194,258	229,894	-16.0%	162,667	182,326	28,875	44,637	0	0	2,717	2,931
Delaware	3,333	6,632	-50.0%	0	0	3,333	5,600	0	0	0	1,032
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	97,243	111,663	-13.0%	95,399	100,380	1,714	11,282	0	0	129	0
Georgia	26,941	40,378	-33.0%	21,489	30,557	4,841	9,218	0	0	612	603
Maryland	3,919	3,624	8.1%	0	0	3,700	3,430	0	0	218	193
North Carolina	21,348	23,760	-10.0%	18,676	20,136	2,473	3,625	0	0	200	0
South Carolina	9,540	12,015	-21.0%	8,444	10,425	1,031	1,408	0	0	64	181
Virginia	30,453	30,238	0.7%	18,527	20,757	11,128	8,860	0	0	798	621
West Virginia	1,482	1,584	-6.4%	132	71	655	1,213	0	0	695	300
East South Central	66,825	90,641	-26.0%	44,401	60,000	20,971	29,438	0	0	1,453	1,203
Alabama	28,355	37,118	-24.0%	9,603	10,542	18,752	26,575	0	0	0	0
Kentucky	4,907	6,870	-29.0%	4,696	6,281	211	588	0	0	0	0
Mississippi	25,857	36,194	-29.0%	23,849	33,920	2,008	2,274	0	0	0	0
Tennessee	7,706	10,460	-26.0%	6,253	9,257	0	0	0	0	1,453	1,203
West South Central	208,382	280,987	-26.0%	51,017	96,447	112,939	133,004	0	0	44,426	51,536
Arkansas	7,454	16,601	-55.0%	8	6,637	7,334	9,713	0	0	112	252
Louisiana	39,256	50,614	-22.0%	20,278	27,812	2,200	4,943	0	0	16,779	17,858
Oklahoma	21,730	31,555	-31.0%	11,922	22,787	9,586	8,768	0	0	223	0
Texas	139,941	182,217	-23.0%	18,810	39,211	93,819	109,580	0	0	27,313	33,426
Mountain	63,649	74,303	-14.0%	49,821	56,957	13,776	17,291	0	0	53	55
Arizona	27,237	31,035	-12.0%	17,154	17,354	10,084	13,681	0	0	0	0
Colorado	7,923	9,727	-19.0%	6,806	8,088	1,117	1,639	0	0	0	0
Idaho	0	1,534	-100.0%	0	1,534	0	0	0	0	0	0
Montana	226	0	--	226	0	0	0	0	0	0	0
Nevada	17,681	19,828	-11.0%	17,681	19,828	0	0	0	0	0	0
New Mexico	7,318	6,595	11.0%	4,896	4,864	2,422	1,731	0	0	0	0
Utah	3,190	5,582	-43.0%	2,985	5,287	152	240	0	0	53	55
Wyoming	74	1	NM	74	1	0	0	0	0	0	0
Pacific Contiguous	47,730	67,601	-29.0%	16,314	25,486	28,780	39,003	0	0	2,635	3,111
California	45,839	54,790	-16.0%	15,613	18,337	27,591	33,342	0	0	2,635	3,111
Oregon	1,489	7,906	-81.0%	299	4,010	1,190	3,896	0	0	0	0
Washington	402	4,905	-92.0%	402	3,139	0	1,766	0	0	0	0
Pacific Noncontiguous	151	908	-83.0%	151	908	0	0	0	0	0	0
Alaska	151	908	-83.0%	151	908	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	737,860	987,371	-25.0%	356,626	484,203	328,000	442,681	595	585	52,640	59,902

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W = Withheld to avoid disclosure of individual company data.

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) June 2017 and 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	126,621	174,901	-28.0%	441	446	126,180	174,455	0	0	0	0
Connecticut	45,187	58,339	-23.0%	0	0	45,187	58,339	0	0	0	0
Maine	16	10,172	-100.0%	0	0	16	10,172	0	0	0	0
Massachusetts	63,751	70,663	-9.8%	201	339	63,551	70,324	0	0	0	0
New Hampshire	11,336	13,586	-17.0%	240	108	11,096	13,479	0	0	0	0
Rhode Island	6,330	22,141	-71.0%	0	0	6,330	22,141	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	390,156	535,359	-27.0%	37,716	45,972	350,633	488,223	0	0	1,807	1,163
New Jersey	71,151	139,445	-49.0%	0	0	71,151	139,445	0	0	0	0
New York	147,633	186,988	-21.0%	37,716	45,972	109,232	140,565	0	0	684	451
Pennsylvania	171,372	208,926	-18.0%	0	0	170,249	208,213	0	0	1,123	712
East North Central	273,944	407,989	-33.0%	103,363	182,246	160,486	217,317	2,869	3,262	7,227	5,163
Illinois	31,081	56,079	-45.0%	104	5,210	30,952	50,853	0	0	25	16
Indiana	50,687	71,530	-29.0%	42,060	57,462	8,628	14,068	0	0	0	0
Michigan	82,714	117,110	-29.0%	16,185	37,383	60,590	73,541	2,869	3,262	3,070	2,924
Ohio	82,126	101,319	-19.0%	23,553	26,999	55,954	74,102	0	0	2,620	219
Wisconsin	27,335	61,950	-56.0%	21,462	55,192	4,363	4,754	0	0	1,511	2,004
West North Central	16,686	79,253	-79.0%	14,678	66,310	74	12,167	623	767	1,311	8
Iowa	5,945	13,379	-56.0%	4,702	13,371	0	0	0	0	1,243	8
Kansas	6,328	6,917	-8.5%	6,328	6,917	0	0	0	0	0	0
Minnesota	373	32,592	-99.0%	228	26,387	74	6,203	4	2	67	0
Missouri	2,410	20,995	-89.0%	1,791	14,266	0	5,964	619	765	0	0
Nebraska	813	1,732	-53.0%	813	1,732	0	0	0	0	0	0
North Dakota	817	687	19.0%	817	687	0	0	0	0	0	0
South Dakota	0	2,949	-100.0%	0	2,949	0	0	0	0	0	0
South Atlantic	991,674	1,146,981	-14.0%	843,084	933,588	131,789	195,112	0	0	16,801	18,281
Delaware	14,908	27,818	-46.0%	0	0	14,908	21,017	0	0	0	6,801
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	495,486	565,319	-12.0%	487,605	521,240	6,783	44,078	0	0	1,098	0
Georgia	146,702	192,787	-24.0%	114,091	143,740	27,951	44,038	0	0	4,661	5,009
Maryland	16,784	18,588	-9.7%	0	0	15,552	17,503	0	0	1,232	1,085
North Carolina	122,717	145,631	-16.0%	107,873	129,174	14,346	16,457	0	0	497	0
South Carolina	52,615	55,514	-5.2%	45,402	44,643	6,699	9,786	0	0	514	1,084
Virginia	136,654	135,321	1.0%	87,375	94,311	44,466	37,211	0	0	4,813	3,799
West Virginia	5,808	6,004	-3.3%	739	479	1,084	5,022	0	0	3,985	503
East South Central	356,424	439,800	-19.0%	238,697	291,215	108,979	144,105	0	0	8,748	4,480
Alabama	149,257	181,985	-18.0%	54,957	53,792	94,300	128,193	0	0	0	0
Kentucky	22,254	31,795	-30.0%	20,903	29,649	1,351	2,146	0	0	0	0
Mississippi	143,394	181,102	-21.0%	130,067	167,336	13,327	13,766	0	0	0	0
Tennessee	41,519	44,918	-7.6%	32,771	40,437	0	0	0	0	8,748	4,480
West South Central	967,293	1,404,528	-31.0%	206,140	422,051	498,481	678,479	0	0	262,671	303,998
Arkansas	34,973	67,214	-48.0%	38	25,401	33,944	40,446	0	0	991	1,368
Louisiana	205,311	273,961	-25.0%	90,318	137,443	17,431	30,195	0	0	97,562	106,324
Oklahoma	85,732	130,500	-34.0%	51,227	92,069	33,674	38,431	0	0	830	0
Texas	641,277	932,853	-31.0%	64,557	167,140	413,432	569,406	0	0	163,288	196,307
Mountain	251,792	321,816	-22.0%	208,821	259,622	42,576	61,787	0	0	395	408
Arizona	82,514	111,016	-26.0%	58,625	73,117	23,889	37,900	0	0	0	0
Colorado	39,493	46,062	-14.0%	33,562	38,644	5,931	7,417	0	0	0	0
Idaho	0	9,647	-100.0%	0	5,737	0	3,909	0	0	0	0
Montana	1,392	0	--	1,392	0	0	0	0	0	0	0
Nevada	79,295	92,465	-14.0%	79,295	92,465	0	0	0	0	0	0
New Mexico	32,202	34,731	-7.3%	20,125	22,639	12,077	12,092	0	0	0	0
Utah	16,600	27,866	-40.0%	15,534	26,990	671	468	0	0	395	408
Wyoming	296	29	921.0%	287	29	9	0	0	0	0	0
Pacific Contiguous	247,399	322,914	-23.0%	98,523	124,901	131,678	178,167	0	0	17,198	19,847
California	221,425	254,611	-13.0%	86,910	91,185	117,317	143,579	0	0	17,198	19,847
Oregon	17,516	41,243	-58.0%	3,155	17,525	14,361	23,718	0	0	0	0
Washington	8,458	27,060	-69.0%	8,458	16,191	0	10,870	0	0	0	0
Pacific Noncontiguous	801	6,856	-88.0%	801	6,856	0	0	0	0	0	0
Alaska	801	6,856	-88.0%	801	6,856	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,622,789	4,840,396	-25.0%	1,752,264	2,333,208	1,550,876	2,149,811	3,492	4,029	316,157	353,348

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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, June 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016
New England	W	W	W	--	4.11	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	4.11	--	--	4.11	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.88	W	W	--	--	1.88	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.80	1.79	0.6%	--	--	1.80	1.79
East North Central	2.04	2.08	-1.9%	2.11	2.15	1.90	1.94
Illinois	W	W	W	1.82	2.01	W	W
Indiana	W	W	W	2.18	2.20	W	W
Michigan	W	W	W	2.11	2.23	W	W
Ohio	1.93	2.08	-7.2%	1.73	1.86	2.00	2.16
Wisconsin	2.28	2.20	3.6%	2.28	2.20	--	--
West North Central	1.78	1.70	4.7%	1.78	1.70	--	--
Iowa	1.67	1.60	4.4%	1.67	1.60	--	--
Kansas	1.75	1.67	4.8%	1.75	1.67	--	--
Minnesota	2.09	2.02	3.5%	2.09	2.02	--	--
Missouri	1.89	1.84	2.7%	1.89	1.84	--	--
Nebraska	1.35	1.34	0.7%	1.35	1.34	--	--
North Dakota	1.72	1.61	6.8%	1.72	1.61	--	--
South Dakota	2.21	2.25	-1.8%	2.21	2.25	--	--
South Atlantic	2.66	2.76	-3.6%	2.67	2.77	2.64	2.70
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.86	W	W	2.86	3.12	--	W
Georgia	2.81	2.90	-3.1%	2.81	2.90	--	--
Maryland	2.58	2.85	-9.5%	--	--	2.58	2.85
North Carolina	W	3.07	W	2.94	3.07	W	--
South Carolina	3.20	3.08	3.9%	3.20	3.08	--	--
Virginia	W	W	W	2.55	2.74	W	W
West Virginia	W	W	W	2.19	2.29	W	W
East South Central	W	W	W	2.13	2.18	W	W
Alabama	2.21	2.35	-6.0%	2.21	2.35	--	--
Kentucky	2.00	2.12	-5.7%	2.00	2.12	--	--
Mississippi	W	W	W	2.98	2.47	W	W
Tennessee	2.25	2.15	4.7%	2.25	2.15	--	--
West South Central	2.03	1.86	9.1%	2.09	2.13	1.96	1.57
Arkansas	W	W	W	2.03	2.08	W	W
Louisiana	W	W	W	2.23	2.95	W	W
Oklahoma	W	W	W	1.83	1.98	W	W
Texas	2.03	1.72	18.0%	2.16	2.04	1.96	1.53
Mountain	W	W	W	1.87	1.92	W	W
Arizona	2.28	2.12	7.5%	2.28	2.12	--	--
Colorado	1.82	1.99	-8.5%	1.82	1.99	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.96	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	1.89	1.60	18.0%	1.89	1.60	--	--
Utah	1.95	1.97	-1.0%	1.95	1.97	--	--
Wyoming	W	1.91	W	1.58	1.91	W	--
Pacific Contiguous	W	W	W	--	2.26	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.26	--	--	2.26	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	3.24	W	--	3.24	W	--
Alaska	--	3.24	--	--	3.24	--	--
Hawaii	W	--	W	--	--	W	--
U.S. Total	2.10	2.09	0.5%	2.13	2.15	2.00	1.88

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

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) June 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	W	3.09	W	4.34	4.00	W	3.00
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	4.00	8.5%	4.34	4.00	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.00	2.06	-2.9%	--	--	2.00	2.06
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.94	2.00	-3.0%	--	--	1.94	2.00
East North Central	2.03	2.10	-3.3%	2.12	2.17	1.89	1.99
Illinois	W	W	W	1.84	2.01	W	W
Indiana	W	W	W	2.18	2.24	W	W
Michigan	W	W	W	2.17	2.25	W	W
Ohio	1.93	2.08	-7.2%	1.74	1.92	1.99	2.14
Wisconsin	2.27	2.18	4.1%	2.27	2.18	--	--
West North Central	1.77	1.72	2.9%	1.77	1.72	--	--
Iowa	1.70	1.61	5.6%	1.70	1.61	--	--
Kansas	1.73	1.69	2.4%	1.73	1.69	--	--
Minnesota	2.10	2.08	1.0%	2.10	2.08	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.37	1.34	2.2%	1.37	1.34	--	--
North Dakota	1.65	1.57	5.1%	1.65	1.57	--	--
South Dakota	2.28	2.25	1.3%	2.28	2.25	--	--
South Atlantic	2.70	2.76	-2.2%	2.72	2.79	2.51	2.51
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.96	3.04	W	W
Georgia	2.76	2.87	-3.8%	2.76	2.87	--	--
Maryland	2.81	2.76	1.8%	--	--	2.81	2.76
North Carolina	W	3.08	W	2.96	3.08	W	--
South Carolina	3.27	3.24	0.9%	3.27	3.24	--	--
Virginia	W	W	W	2.72	2.90	W	W
West Virginia	W	W	W	2.21	2.33	W	W
East South Central	W	W	W	2.07	2.21	W	W
Alabama	2.16	2.44	-11.0%	2.16	2.44	--	--
Kentucky	1.97	2.12	-7.1%	1.97	2.12	--	--
Mississippi	W	W	W	2.80	2.67	W	W
Tennessee	2.24	2.23	0.4%	2.24	2.23	--	--
West South Central	1.97	1.91	3.1%	2.12	2.16	1.84	1.65
Arkansas	W	W	W	2.11	2.21	W	W
Louisiana	W	W	W	2.38	2.77	W	W
Oklahoma	W	W	W	1.89	1.93	W	W
Texas	1.92	1.77	8.5%	2.12	2.09	1.82	1.60
Mountain	W	W	W	1.91	1.88	W	W
Arizona	2.26	2.17	4.1%	2.26	2.17	--	--
Colorado	1.84	1.90	-3.2%	1.84	1.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.74	--	W	W
Nevada	W	W	W	--	1.95	W	W
New Mexico	1.93	1.79	7.8%	1.93	1.79	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	W	1.65	W	1.65	1.65	W	--
Pacific Contiguous	W	W	W	2.40	2.30	W	W
California	--	--	--	--	--	--	--
Oregon	2.40	2.30	4.3%	2.40	2.30	--	--
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	2.09	2.13	-1.9%	2.14	2.17	1.95	1.98

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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, June 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016
New England	W	W	W	13.37	9.17	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.56	W	W
New Hampshire	13.37	9.12	47.0%	13.37	9.12	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	10.90	11.72	-7.0%	11.47	--	10.88	11.72
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	11.47	--	W	W
Pennsylvania	10.94	11.68	-6.3%	--	--	10.94	11.68
East North Central	11.44	12.26	-6.7%	11.45	12.12	11.41	12.52
Illinois	11.80	12.93	-8.7%	11.46	11.82	11.83	12.99
Indiana	11.21	11.84	-5.3%	11.21	11.84	--	--
Michigan	11.07	12.15	-8.9%	11.07	12.15	--	--
Ohio	11.75	12.34	-4.8%	12.19	12.78	11.07	12.00
Wisconsin	11.53	11.91	-3.2%	11.53	11.91	--	--
West North Central	11.22	11.42	-1.8%	11.22	11.42	--	--
Iowa	10.90	11.53	-5.5%	10.90	11.53	--	--
Kansas	11.13	11.70	-4.9%	11.13	11.70	--	--
Minnesota	11.02	11.79	-6.5%	11.02	11.79	--	--
Missouri	10.83	11.56	-6.3%	10.83	11.56	--	--
Nebraska	10.11	11.71	-14.0%	10.11	11.71	--	--
North Dakota	11.79	10.74	9.8%	11.79	10.74	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	11.11	12.60	-12.0%	11.14	12.50	10.89	13.06
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	11.35	13.41	-15.0%	11.35	13.41	--	--
Georgia	10.49	11.29	-7.1%	10.49	11.29	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	10.84	11.40	-4.9%	10.84	11.40	--	--
South Carolina	11.52	12.23	-5.8%	11.52	12.23	--	--
Virginia	W	W	W	11.00	11.36	W	W
West Virginia	12.01	11.75	2.2%	12.01	11.75	--	--
East South Central	11.21	W	W	11.21	11.46	--	W
Alabama	12.07	W	W	12.07	11.46	--	W
Kentucky	11.36	11.65	-2.5%	11.36	11.65	--	--
Mississippi	10.72	11.45	-6.4%	10.72	11.45	--	--
Tennessee	11.03	11.32	-2.6%	11.03	11.32	--	--
West South Central	W	11.76	W	10.89	11.73	W	11.81
Arkansas	W	W	W	10.76	11.54	W	W
Louisiana	--	11.33	--	--	11.33	--	--
Oklahoma	--	12.41	--	--	12.41	--	--
Texas	W	W	W	10.97	11.81	W	W
Mountain	W	W	W	13.61	12.97	W	W
Arizona	12.36	12.59	-1.8%	12.36	12.59	--	--
Colorado	--	12.43	--	--	12.43	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	W	W	--	--	--	W
Nevada	W	W	W	11.58	13.32	W	W
New Mexico	12.74	13.59	-6.3%	12.74	13.59	--	--
Utah	15.29	12.65	21.0%	15.29	12.65	--	--
Wyoming	16.10	12.67	27.0%	16.10	12.67	--	--
Pacific Contiguous	--	W	W	--	--	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	10.67	9.52	W	W
Alaska	--	16.10	--	--	16.10	--	--
Hawaii	W	W	W	10.67	9.51	W	W
U.S. Total	W	10.40	W	10.86	10.51	W	10.07

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	W	8.60	W	13.98	9.59	W	7.97
Connecticut	W	8.59	W	--	--	W	8.59
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	13.98	9.59	46.0%	13.98	9.59	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.67	W	W	9.22	8.28	15.21	W
New Jersey	W	W	W	--	--	W	W
New York	12.99	6.47	101.0%	9.22	8.28	21.02	6.27
Pennsylvania	W	W	W	--	--	W	W
East North Central	12.16	10.14	20.0%	12.11	10.02	12.25	10.30
Illinois	12.50	10.35	21.0%	11.83	10.11	12.53	10.35
Indiana	12.00	9.82	22.0%	12.00	9.82	--	--
Michigan	11.63	9.81	19.0%	11.63	9.81	--	--
Ohio	12.43	10.21	22.0%	13.03	10.03	12.10	10.28
Wisconsin	11.85	11.62	2.0%	11.85	11.62	--	--
West North Central	12.10	9.58	26.0%	12.10	9.58	--	--
Iowa	12.34	10.10	22.0%	12.34	10.10	--	--
Kansas	11.97	9.66	24.0%	11.97	9.66	--	--
Minnesota	11.96	10.22	17.0%	11.96	10.22	--	--
Missouri	12.10	9.63	26.0%	12.10	9.63	--	--
Nebraska	10.11	10.53	-4.0%	10.11	10.53	--	--
North Dakota	12.02	8.70	38.0%	12.02	8.70	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.27	9.08	35.0%	12.25	9.02	12.52	9.39
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.35	10.65	16.0%	12.35	10.65	--	--
Georgia	W	8.61	W	11.44	8.89	W	7.68
Maryland	11.13	8.25	35.0%	--	--	11.13	8.25
North Carolina	W	W	W	12.06	9.42	W	W
South Carolina	12.62	10.52	20.0%	12.62	10.52	--	--
Virginia	W	W	W	11.30	8.04	W	W
West Virginia	12.63	10.57	19.0%	12.63	10.57	--	--
East South Central	W	W	W	11.89	9.50	W	W
Alabama	W	W	W	12.63	9.06	W	W
Kentucky	11.91	9.79	22.0%	11.91	9.79	--	--
Mississippi	11.66	8.40	39.0%	11.66	8.40	--	--
Tennessee	11.68	9.54	22.0%	11.68	9.54	--	--
West South Central	12.27	9.99	23.0%	11.95	9.81	12.49	10.60
Arkansas	W	W	W	11.77	9.52	W	W
Louisiana	--	W	W	--	9.50	--	W
Oklahoma	12.91	11.84	9.0%	12.91	11.84	--	--
Texas	W	W	W	11.94	10.23	W	W
Mountain	13.42	W	W	13.42	10.62	13.37	W
Arizona	13.21	10.65	24.0%	13.21	10.65	--	--
Colorado	12.52	9.40	33.0%	12.52	9.40	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.59	11.77	W	W
New Mexico	12.65	10.43	21.0%	12.65	10.43	--	--
Utah	W	10.81	W	13.92	10.81	W	--
Wyoming	13.87	10.79	29.0%	13.87	10.79	--	--
Pacific Contiguous	W	W	W	13.51	--	W	W
California	--	--	--	--	--	--	--
Oregon	13.51	--	--	13.51	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.81	7.50	W	W
Alaska	16.28	12.41	31.0%	16.28	12.41	--	--
Hawaii	W	W	W	10.81	7.49	W	W
U.S. Total	11.53	8.41	37.0%	11.33	8.27	12.28	8.84

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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, June 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.49	W	W	1.49	1.35	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.44	1.30	11.0%	1.44	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.81	1.72	5.2%	1.81	1.72	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.51	1.45	73.0%	2.51	1.45	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.51	1.45	73.0%	2.51	1.45	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.56	--	--	1.56	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.56	--	--	1.56	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.15	1.16	85.0%	2.15	1.16	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.15	1.16	85.0%	2.15	1.16	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.14	W	W	2.14	1.33	--	W

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.49	W	W	1.49	1.13	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.47	1.30	13.0%	1.47	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.80	1.71	5.3%	1.80	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.58	1.25	106.0%	2.58	1.25	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.58	1.25	106.0%	2.58	1.25	--	--
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	2.12	1.12	89.0%	2.12	1.12	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.12	1.12	89.0%	2.12	1.12	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.07	1.33	56.0%	2.07	1.19	--	2.50

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

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, June 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017	June 2016	Percentage Change	June 2017	June 2016	June 2017	June 2016
New England	2.77	W	W	3.46	2.97	2.76	W
Connecticut	W	2.27	W	--	--	W	2.27
Maine	W	W	W	--	--	W	W
Massachusetts	2.56	2.27	13.0%	3.20	3.03	2.55	2.27
New Hampshire	W	W	W	4.07	2.90	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.54	2.07	23.0%	3.02	2.13	2.47	2.06
New Jersey	2.34	2.06	14.0%	--	--	2.34	2.06
New York	2.87	2.31	24.0%	3.02	2.13	2.80	2.38
Pennsylvania	2.31	1.83	26.0%	--	--	2.31	1.83
East North Central	3.04	2.55	19.0%	3.06	2.64	3.02	2.47
Illinois	3.04	W	W	3.61	3.07	3.03	W
Indiana	W	W	W	3.04	2.80	W	W
Michigan	3.14	2.65	18.0%	3.42	2.82	3.05	2.55
Ohio	2.89	2.19	32.0%	2.67	2.23	2.99	2.17
Wisconsin	W	W	W	3.24	2.48	W	W
West North Central	3.06	W	W	3.06	2.78	--	W
Iowa	2.53	2.47	2.4%	2.53	2.47	--	--
Kansas	3.34	2.97	12.0%	3.34	2.97	--	--
Minnesota	3.63	W	W	3.63	2.88	--	W
Missouri	3.19	W	W	3.19	2.73	--	W
Nebraska	3.31	3.12	6.1%	3.31	3.12	--	--
North Dakota	4.34	2.64	64.0%	4.34	2.64	--	--
South Dakota	--	2.38	--	--	2.38	--	--
South Atlantic	3.82	3.15	21.0%	3.93	3.23	2.96	2.60
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.25	3.37	26.0%	4.25	3.40	--	2.39
Georgia	W	2.95	W	3.51	3.02	W	2.68
Maryland	3.10	2.88	7.6%	--	--	3.10	2.88
North Carolina	W	W	W	3.88	3.55	W	W
South Carolina	W	W	W	3.48	3.25	W	W
Virginia	2.94	W	W	3.11	2.42	2.53	W
West Virginia	W	1.88	W	2.82	2.45	W	1.85
East South Central	3.21	2.66	21.0%	3.18	2.62	3.26	2.79
Alabama	W	W	W	3.30	2.79	W	W
Kentucky	W	W	W	3.63	3.03	W	W
Mississippi	W	W	W	3.09	2.56	W	W
Tennessee	3.05	2.35	30.0%	3.05	2.35	--	--
West South Central	3.10	2.58	20.0%	3.17	2.66	3.06	2.52
Arkansas	W	W	W	3.02	3.07	W	W
Louisiana	W	2.55	W	3.27	2.54	W	2.61
Oklahoma	W	W	W	3.12	2.72	W	W
Texas	3.09	2.55	21.0%	3.09	2.64	3.09	2.51
Mountain	3.38	2.69	26.0%	3.39	2.66	3.26	3.04
Arizona	W	W	W	3.53	2.86	W	W
Colorado	W	W	W	3.35	2.86	W	W
Idaho	--	2.47	--	--	2.47	--	--
Montana	2.01	--	--	2.01	--	--	--
Nevada	3.33	2.47	35.0%	3.33	2.47	--	--
New Mexico	3.36	2.72	24.0%	3.36	2.72	--	--
Utah	W	W	W	3.21	2.32	W	W
Wyoming	W	16.92	W	3.42	16.92	W	--
Pacific Contiguous	3.58	2.74	31.0%	3.98	2.90	3.30	2.61
California	W	2.90	W	4.00	3.28	W	2.66
Oregon	W	W	W	2.22	1.93	W	W
Washington	4.72	W	W	4.72	2.40	--	W
Pacific Noncontiguous	8.09	7.06	15.0%	8.09	7.06	--	--
Alaska	8.09	7.06	15.0%	8.09	7.06	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.31	2.69	23.0%	3.58	2.88	2.93	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 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2017 YTD	June 2016 YTD	Percentage Change	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	4.12	3.14	31.0%	3.66	3.11	4.12	3.14
Connecticut	W	3.81	W	--	--	W	3.81
Maine	W	W	W	--	--	W	W
Massachusetts	3.55	2.68	32.0%	3.41	3.14	3.55	2.68
New Hampshire	W	W	W	3.87	3.00	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.35	2.18	54.0%	4.01	2.62	3.26	2.13
New Jersey	3.18	2.12	50.0%	--	--	3.18	2.12
New York	3.83	2.56	50.0%	4.01	2.62	3.75	2.54
Pennsylvania	3.00	1.86	61.0%	--	--	3.00	1.86
East North Central	3.17	2.27	40.0%	3.19	2.41	3.15	2.16
Illinois	3.10	2.41	29.0%	4.22	2.70	3.09	2.38
Indiana	W	W	W	3.08	2.46	W	W
Michigan	3.24	2.33	39.0%	3.41	2.49	3.19	2.26
Ohio	3.08	1.92	60.0%	2.98	2.02	3.12	1.88
Wisconsin	W	W	W	3.49	2.47	W	W
West North Central	3.45	W	W	3.45	2.60	--	W
Iowa	2.74	2.35	17.0%	2.74	2.35	--	--
Kansas	3.82	3.16	21.0%	3.82	3.16	--	--
Minnesota	3.50	W	W	3.50	2.71	--	W
Missouri	3.10	W	W	3.10	2.45	--	W
Nebraska	4.27	2.84	50.0%	4.27	2.84	--	--
North Dakota	4.76	2.30	107.0%	4.76	2.30	--	--
South Dakota	--	2.07	--	--	2.07	--	--
South Atlantic	3.95	3.21	23.0%	4.01	3.33	3.31	2.33
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.14	3.61	W	W
Georgia	W	2.57	W	3.72	2.62	W	2.36
Maryland	W	2.92	W	--	--	W	2.92
North Carolina	W	W	W	4.10	3.52	W	W
South Carolina	W	W	W	3.54	3.07	W	W
Virginia	3.63	W	W	3.84	2.74	2.84	W
West Virginia	2.96	W	W	3.06	1.98	2.88	W
East South Central	3.34	2.46	36.0%	3.34	2.48	3.34	2.41
Alabama	W	W	W	3.48	2.54	W	W
Kentucky	W	W	W	3.87	2.81	W	W
Mississippi	W	W	W	3.25	2.47	W	W
Tennessee	3.13	2.21	42.0%	3.13	2.21	--	--
West South Central	3.17	2.23	42.0%	3.31	2.33	3.10	2.16
Arkansas	W	W	W	3.24	2.53	W	W
Louisiana	W	W	W	3.34	2.27	W	W
Oklahoma	W	W	W	3.32	2.38	W	W
Texas	3.13	2.21	42.0%	3.25	2.32	3.10	2.17
Mountain	3.65	W	W	3.65	2.59	3.57	W
Arizona	3.82	W	W	3.88	2.71	2.99	W
Colorado	W	W	W	3.58	2.83	W	W
Idaho	--	2.50	--	--	2.50	--	--
Montana	2.18	--	--	2.18	--	--	--
Nevada	3.60	2.50	44.0%	3.60	2.50	--	--
New Mexico	3.49	2.55	37.0%	3.49	2.55	--	--
Utah	W	W	W	3.60	2.25	W	W
Wyoming	W	7.04	W	4.25	7.04	W	--
Pacific Contiguous	3.75	2.65	42.0%	4.07	2.98	3.47	2.37
California	W	2.71	W	4.10	3.13	W	2.42
Oregon	W	W	W	3.18	2.04	W	W
Washington	4.16	W	W	4.16	3.29	--	W
Pacific Noncontiguous	8.09	6.49	25.0%	8.09	6.49	--	--
Alaska	8.09	6.49	25.0%	8.09	6.49	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.55	2.60	37.0%	3.74	2.84	3.29	2.28

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

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

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, June 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	2	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	2	1.45	6.2	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,615	3.02	8.8	0	--	--	0	--	--
New Jersey	66	1.66	6.7	0	--	--	0	--	--
New York	41	2.58	7.9	0	--	--	0	--	--
Pennsylvania	1,508	3.09	8.9	0	--	--	0	--	--
East North Central	5,771	3.09	10.3	6,084	0.25	4.7	0	--	--
Illinois	906	3.60	20.8	2,115	0.22	4.6	0	--	--
Indiana	2,593	2.69	8.9	60	0.20	4.6	0	--	--
Michigan	159	2.31	7.4	2,316	0.27	4.6	0	--	--
Ohio	2,037	3.46	8.9	0	--	--	0	--	--
Wisconsin	76	2.52	8.4	1,592	0.26	5.1	0	--	--
West North Central	125	3.02	9.1	7,204	0.26	4.9	1,738	0.81	9.3
Iowa	62	3.06	8.3	1,316	0.24	4.7	0	--	--
Kansas	15	3.21	13.8	819	0.28	4.7	0	--	--
Minnesota	0	--	--	1,006	0.35	6.0	0	--	--
Missouri	48	2.91	8.7	2,811	0.23	4.6	0	--	--
Nebraska	0	--	--	1,128	0.27	5.1	0	--	--
North Dakota	0	--	--	11	0.43	5.7	1,738	0.81	9.3
South Dakota	0	--	--	114	0.33	5.0	0	--	--
South Atlantic	6,966	2.23	10.1	808	0.32	4.8	0	--	--
Delaware	12	2.25	7.5	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,505	2.26	8.2	0	--	--	0	--	--
Georgia	707	2.47	8.0	794	0.32	4.8	0	--	--
Maryland	266	2.27	10.6	14	0.20	4.8	0	--	--
North Carolina	1,068	1.76	9.0	0	--	--	0	--	--
South Carolina	615	1.47	9.0	0	--	--	0	--	--
Virginia	437	1.09	19.3	0	--	--	0	--	--
West Virginia	2,355	2.72	11.2	0	--	--	0	--	--
East South Central	3,234	2.58	9.2	2,070	0.23	4.8	196	0.47	12.7
Alabama	560	1.61	10.7	867	0.25	5.0	0	--	--
Kentucky	2,001	3.02	9.2	666	0.22	4.6	0	--	--
Mississippi	74	0.41	5.7	83	0.27	4.8	196	0.47	12.7
Tennessee	598	2.25	8.2	454	0.21	4.5	0	--	--
West South Central	61	1.46	23.2	7,301	0.26	5.0	2,698	1.02	16.8
Arkansas	5	0.66	9.0	1,366	0.21	4.7	0	--	--
Louisiana	0	--	--	561	0.24	5.0	156	0.65	15.2
Oklahoma	55	1.55	24.8	647	0.23	4.8	0	--	--
Texas	0	--	--	4,727	0.28	5.2	2,542	1.04	16.9
Mountain	1,966	0.62	14.5	4,919	0.51	8.5	25	0.53	9.1
Arizona	318	0.46	9.4	871	0.58	10.8	0	--	--
Colorado	139	0.44	11.2	1,163	0.36	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	424	0.63	9.4	25	0.53	9.1
Nevada	0	--	--	61	0.26	4.8	0	--	--
New Mexico	563	0.82	22.8	337	0.75	20.4	0	--	--
Utah	946	0.59	12.2	76	1.07	8.3	0	--	--
Wyoming	0	--	--	1,986	0.48	6.9	0	--	--
Pacific Contiguous	44	0.51	10.5	278	0.48	9.0	0	--	--
California	44	0.51	10.5	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	278	0.48	9.0	0	--	--
Pacific Noncontiguous	0	--	--	61	0.10	3.9	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	61	0.10	3.9	0	--	--
U.S. Total	19,783	2.45	10.3	28,724	0.30	5.5	4,656	0.92	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 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, June 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	3,485	2.79	9.0	4,359	0.26	4.8	0	--	--
Illinois	245	2.95	12.7	390	0.22	4.5	0	--	--
Indiana	2,500	2.66	8.8	60	0.20	4.6	0	--	--
Michigan	142	2.49	7.6	2,316	0.27	4.6	0	--	--
Ohio	537	3.32	8.7	0	--	--	0	--	--
Wisconsin	62	2.92	7.9	1,592	0.26	5.1	0	--	--
West North Central	63	2.98	9.9	6,982	0.26	4.9	1,738	0.81	9.3
Iowa	0	--	--	1,173	0.24	4.7	0	--	--
Kansas	15	3.21	13.8	819	0.28	4.7	0	--	--
Minnesota	0	--	--	1,006	0.35	6.0	0	--	--
Missouri	48	2.91	8.7	2,811	0.23	4.6	0	--	--
Nebraska	0	--	--	1,049	0.27	5.1	0	--	--
North Dakota	0	--	--	11	0.43	5.7	1,738	0.81	9.3
South Dakota	0	--	--	114	0.33	5.0	0	--	--
South Atlantic	6,363	2.22	9.9	794	0.32	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,494	2.27	8.2	0	--	--	0	--	--
Georgia	695	2.49	8.0	794	0.32	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,047	1.78	9.1	0	--	--	0	--	--
South Carolina	615	1.47	9.0	0	--	--	0	--	--
Virginia	391	1.12	20.7	0	--	--	0	--	--
West Virginia	2,119	2.70	10.6	0	--	--	0	--	--
East South Central	3,157	2.62	9.2	2,070	0.23	4.8	0	--	--
Alabama	560	1.61	10.7	867	0.25	5.0	0	--	--
Kentucky	2,001	3.02	9.2	666	0.22	4.6	0	--	--
Mississippi	74	0.41	5.7	83	0.27	4.8	0	--	--
Tennessee	521	2.47	8.4	454	0.21	4.5	0	--	--
West South Central	0	--	--	4,078	0.24	4.9	598	1.28	18.0
Arkansas	0	--	--	1,218	0.21	4.7	0	--	--
Louisiana	0	--	--	298	0.24	5.2	156	0.65	15.2
Oklahoma	0	--	--	589	0.23	4.8	0	--	--
Texas	0	--	--	1,973	0.27	5.1	443	1.53	19.0
Mountain	1,945	0.62	14.5	4,388	0.50	8.4	25	0.53	9.1
Arizona	318	0.46	9.4	871	0.58	10.8	0	--	--
Colorado	139	0.44	11.2	1,163	0.36	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	25	0.53	9.1
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	563	0.82	22.8	337	0.75	20.4	0	--	--
Utah	926	0.59	12.2	76	1.07	8.3	0	--	--
Wyoming	0	--	--	1,940	0.48	6.9	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	15,013	2.25	10.1	22,671	0.30	5.6	2,361	0.92	11.4

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

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

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, June 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	2	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	2	1.45	6.2	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,587	3.03	8.8	0	--	--	0	--	--
New Jersey	66	1.66	6.7	0	--	--	0	--	--
New York	25	2.74	8.0	0	--	--	0	--	--
Pennsylvania	1,497	3.10	8.9	0	--	--	0	--	--
East North Central	2,172	3.57	12.6	1,675	0.20	4.6	0	--	--
Illinois	561	3.92	27.8	1,675	0.20	4.6	0	--	--
Indiana	93	3.50	10.1	0	--	--	0	--	--
Michigan	18	0.49	5.5	0	--	--	0	--	--
Ohio	1,500	3.51	8.9	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	537	2.46	12.8	14	0.20	4.8	0	--	--
Delaware	12	2.25	7.5	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	254	2.30	10.1	14	0.20	4.8	0	--	--
North Carolina	2	0.71	5.4	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	34	0.86	10.7	0	--	--	0	--	--
West Virginia	236	2.92	16.6	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	196	0.47	12.7
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	196	0.47	12.7
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	55	1.55	24.8	3,193	0.28	5.2	2,099	0.95	16.5
Arkansas	0	--	--	148	0.22	4.4	0	--	--
Louisiana	0	--	--	264	0.23	4.7	0	--	--
Oklahoma	55	1.55	24.8	28	0.29	4.7	0	--	--
Texas	0	--	--	2,753	0.29	5.2	2,099	0.95	16.5
Mountain	0	--	--	530	0.57	8.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	424	0.63	9.4	0	--	--
Nevada	0	--	--	61	0.26	4.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	46	0.44	6.5	0	--	--
Pacific Contiguous	0	--	--	278	0.48	9.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	278	0.48	9.0	0	--	--
Pacific Noncontiguous	0	--	--	61	0.10	3.9	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	61	0.10	3.9	0	--	--
U.S. Total	4,353	3.19	11.3	5,751	0.29	5.5	2,296	0.91	16.2

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 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, June 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	1	3.02	8.2	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	1	3.02	8.2	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	1	3.02	8.2	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 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, June 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	28	2.30	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	16	2.34	7.6	0	--	--	0	--	--
Pennsylvania	11	2.23	7.3	0	--	--	0	--	--
East North Central	114	3.29	8.8	50	0.79	6.5	0	--	--
Illinois	101	3.70	8.5	50	0.79	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	14	0.40	10.8	0	--	--	0	--	--
West North Central	62	3.06	8.3	222	0.22	4.5	0	--	--
Iowa	62	3.06	8.3	143	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	79	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	67	1.01	10.1	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.73	7.1	0	--	--	0	--	--
Georgia	12	1.19	10.3	0	--	--	0	--	--
Maryland	13	1.75	22.4	0	--	--	0	--	--
North Carolina	19	0.80	7.0	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	12	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	77	0.92	7.0	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	77	0.92	7.0	0	--	--	0	--	--
West South Central	5	0.66	9.0	30	0.18	4.8	0	--	--
Arkansas	5	0.66	9.0	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	30	0.18	4.8	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	20	0.51	11.3	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	0.51	11.3	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	44	0.51	10.5	0	--	--	0	--	--
California	44	0.51	10.5	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	417	1.86	8.8	302	0.31	4.8	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 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - June 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	1,407,394	1,359,617	936,269	7,499	3,710,779
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	130,764	109,870	75,892	660	317,186
February	115,820	102,877	73,909	647	293,253
March	100,123	105,180	75,907	610	281,819
April	88,107	101,464	75,801	595	265,967
May	93,981	107,900	78,246	582	280,708
June	124,888	119,673	80,234	632	325,427
July	153,976	129,265	83,369	648	367,258
August	155,851	134,078	85,061	632	375,622
Sept	129,111	122,961	79,719	637	332,428
October	101,137	112,346	77,960	613	292,056
November	92,797	104,454	75,048	592	272,891
December	120,840	109,548	75,124	652	306,163
Year 2017					
January	128,997	109,225	75,596	666	314,483
February	101,141	99,478	71,741	636	272,996
March	103,210	106,991	77,018	644	287,863
April	90,780	101,566	75,624	590	268,560
May	98,757	109,757	79,838	583	288,934
June	121,778	119,028	82,083	619	323,508
Year to Date					
2015	684,429	657,742	485,689	3,889	1,831,749
2016	653,683	646,964	459,989	3,725	1,764,361
2017	644,662	646,044	461,899	3,738	1,756,343
Rolling 12 Months Ending in June					
2016	1,373,350	1,349,974	960,808	7,472	3,691,604
2017	1,398,374	1,358,697	938,178	7,512	3,702,761

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 2015 and prior years are final. Values for 2017 and 2016 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 - June 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	176,585	140,937	63,201	711	381,435
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	15,666	11,005	4,860	62	31,594
February	14,060	10,491	4,720	61	29,332
March	12,585	10,682	4,908	58	28,233
April	10,955	10,275	4,849	56	26,136
May	12,023	11,055	5,134	53	28,266
June	15,882	12,677	5,639	61	34,259
July	19,522	13,732	6,025	62	39,341
August	20,104	14,355	6,152	63	40,674
Sept	16,611	13,157	5,697	63	35,528
October	12,599	11,759	5,236	58	29,653
November	11,828	10,701	4,995	54	27,577
December	14,750	11,047	4,984	61	30,843
Year 2017					
January	15,758	11,126	4,964	62	31,910
February	12,961	10,424	4,755	60	28,201
March	13,315	11,210	5,189	61	29,774
April	11,525	10,564	4,992	56	27,137
May	12,857	11,608	5,434	56	29,954
June	16,098	13,078	5,926	63	35,166
Year to Date					
2015	85,547	69,421	33,072	395	188,435
2016	81,171	66,186	30,112	351	177,819
2017	82,514	68,010	31,261	358	182,143
Rolling 12 Months Ending in June					
2016	173,248	141,547	65,205	726	380,726
2017	177,929	142,761	64,350	718	385,758

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 2015 and prior years are final. Values for 2017 and 2016 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 - June 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	10.37	6.75	9.48	10.28
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	11.98	10.02	6.40	9.41	9.96
February	12.14	10.20	6.39	9.49	10.00
March	12.57	10.16	6.47	9.43	10.02
April	12.43	10.13	6.40	9.41	9.83
May	12.79	10.25	6.56	9.13	10.07
June	12.72	10.59	7.03	9.59	10.53
July	12.68	10.62	7.23	9.63	10.71
August	12.90	10.71	7.23	9.89	10.83
Sept	12.87	10.70	7.15	9.83	10.69
October	12.46	10.47	6.72	9.43	10.15
November	12.75	10.24	6.66	9.04	10.11
December	12.21	10.08	6.63	9.40	10.07
Year 2017					
January	12.22	10.19	6.57	9.32	10.15
February	12.82	10.48	6.63	9.47	10.33
March	12.90	10.48	6.74	9.48	10.34
April	12.70	10.40	6.60	9.44	10.10
May	13.02	10.58	6.81	9.58	10.37
June	13.22	10.99	7.22	10.21	10.87
Year to Date					
2015	12.50	10.55	6.81	10.15	10.29
2016	12.42	10.23	6.55	9.41	10.08
2017	12.80	10.53	6.77	9.58	10.37
Rolling 12 Months Ending in June					
2016	12.61	10.49	6.79	9.72	10.31
2017	12.72	10.51	6.86	9.56	10.42

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
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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, June 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	3,647	3,558	4,403	4,486	1,411	1,453	45	45	9,507	9,542
Connecticut	986	1,009	1,061	1,126	278	283	16	17	2,341	2,436
Maine	359	332	341	328	227	235	0	0	928	895
Massachusetts	1,558	1,494	2,143	2,182	561	588	27	26	4,289	4,290
New Hampshire	342	327	367	369	166	171	0	0	875	866
Rhode Island	249	244	326	310	68	65	2	2	645	622
Vermont	153	152	166	171	110	110	0	0	430	433
Middle Atlantic	10,685	10,785	13,139	13,326	5,986	5,993	310	333	30,120	30,437
New Jersey	2,700	2,626	3,307	3,241	601	585	25	25	6,634	6,477
New York	4,036	4,077	6,283	6,452	1,421	1,447	227	226	11,967	12,202
Pennsylvania	3,949	4,082	3,549	3,632	3,963	3,961	58	83	11,519	11,758
East North Central	15,805	16,362	16,048	16,283	15,724	15,550	46	45	47,622	48,240
Illinois	4,200	4,454	4,296	4,472	3,576	3,452	41	40	12,113	12,418
Indiana	2,700	2,808	2,075	2,133	3,477	3,480	2	2	8,253	8,422
Michigan	2,908	2,956	3,499	3,427	2,492	2,630	1	0	8,899	9,013
Ohio	4,212	4,363	4,101	4,159	4,072	3,933	3	3	12,388	12,457
Wisconsin	1,785	1,782	2,077	2,094	2,107	2,055	0	0	5,969	5,931
West North Central	8,715	9,349	8,854	9,062	7,516	7,196	3	3	25,089	25,612
Iowa	1,219	1,269	1,073	1,077	1,936	1,808	0	0	4,227	4,154
Kansas	1,302	1,500	1,367	1,467	919	913	0	0	3,588	3,880
Minnesota	1,756	1,773	1,996	1,998	1,756	1,656	2	2	5,509	5,429
Missouri	2,979	3,275	2,699	2,815	1,006	1,011	2	1	6,685	7,102
Nebraska	830	877	836	834	1,004	1,003	0	0	2,670	2,714
North Dakota	287	295	478	465	653	585	0	0	1,419	1,345
South Dakota	342	360	407	408	242	220	0	0	991	987
South Atlantic	31,386	32,668	27,735	27,929	11,733	11,693	108	105	70,962	72,394
Delaware	368	373	358	375	195	178	0	0	921	927
District of Columbia	222	257	726	750	16	10	29	23	993	1,040
Florida	11,221	11,721	8,419	8,686	1,404	1,441	8	9	21,052	21,857
Georgia	5,063	5,453	4,158	4,297	2,697	2,720	14	15	11,932	12,484
Maryland	2,285	2,195	2,612	2,587	316	318	45	41	5,258	5,141
North Carolina	5,021	5,284	4,443	4,374	2,250	2,319	0	1	11,714	11,977
South Carolina	2,728	2,903	1,980	2,034	2,228	2,224	0	0	6,936	7,160
Virginia	3,711	3,667	4,405	4,173	1,501	1,449	13	17	9,630	9,306
West Virginia	767	815	633	653	1,127	1,034	0	0	2,526	2,502
East South Central	9,750	10,352	7,833	8,167	8,444	8,282	0	0	26,027	26,801
Alabama	2,728	3,014	2,011	2,114	2,813	2,861	0	0	7,552	7,988
Kentucky	2,116	2,263	1,644	1,722	2,348	2,255	0	0	6,108	6,240
Mississippi	1,570	1,628	1,227	1,246	1,396	1,376	0	0	4,193	4,250
Tennessee	3,336	3,447	2,952	3,085	1,887	1,791	0	0	8,175	8,323
West South Central	20,256	20,188	17,713	17,560	15,916	14,456	16	16	53,901	52,220
Arkansas	1,461	1,440	1,069	1,064	1,469	1,335	0	0	3,999	3,838
Louisiana	2,678	2,775	2,158	2,209	3,012	2,916	1	1	7,849	7,901
Oklahoma	2,189	2,326	1,907	1,974	1,560	1,475	0	0	5,656	5,776
Texas	13,928	13,647	12,579	12,313	9,874	8,730	15	15	36,397	34,705
Mountain	9,958	10,065	8,881	8,641	7,428	7,578	12	11	26,278	26,295
Arizona	4,119	4,032	2,877	2,865	1,150	1,309	1	0	8,146	8,207
Colorado	1,674	1,711	1,767	1,760	1,321	1,304	5	5	4,767	4,780
Idaho	588	615	518	542	1,085	1,141	0	0	2,191	2,299
Montana	331	350	404	411	364	361	0	0	1,100	1,122
Nevada	1,528	1,630	1,109	884	1,172	1,206	1	1	3,809	3,721
New Mexico	639	614	845	828	660	653	0	0	2,144	2,095
Utah	894	926	1,057	1,048	813	766	5	5	2,768	2,744
Wyoming	186	188	305	302	863	837	0	0	1,353	1,327
Pacific Contiguous	11,225	11,208	13,955	13,750	7,510	7,618	79	73	32,768	32,650
California	7,582	7,573	10,192	9,995	4,386	4,503	76	71	22,235	22,142
Oregon	1,311	1,337	1,362	1,366	1,055	1,040	2	2	3,731	3,745
Washington	2,331	2,299	2,401	2,389	2,069	2,074	1	0	6,802	6,763
Pacific Noncontiguous	352	353	467	470	416	415	0	0	1,235	1,237
Alaska	138	140	209	216	110	108	0	0	457	464
Hawaii	214	213	258	254	306	306	0	0	778	774
U.S. Total	121,778	124,888	119,028	119,673	82,083	80,234	619	632	323,508	325,427

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	22,322	22,002	24,950	25,264	7,998	8,368	278	279	55,549	55,913
Connecticut	6,027	6,007	5,932	6,149	1,501	1,568	86	90	13,546	13,814
Maine	2,380	2,283	1,971	1,927	1,285	1,410	0	0	5,635	5,620
Massachusetts	9,286	9,132	12,203	12,294	3,228	3,346	178	175	24,895	24,947
New Hampshire	2,203	2,154	2,135	2,164	938	965	0	0	5,277	5,284
Rhode Island	1,415	1,411	1,744	1,750	365	378	14	14	3,538	3,553
Vermont	1,011	1,016	965	980	682	700	0	0	2,658	2,695
Middle Atlantic	61,102	61,543	74,889	75,573	34,866	34,851	1,929	1,904	172,787	173,870
New Jersey	12,650	12,741	18,265	18,321	3,501	3,390	153	153	34,569	34,604
New York	23,032	23,049	35,741	36,154	8,148	8,441	1,383	1,366	68,303	69,010
Pennsylvania	25,420	25,753	20,883	21,098	23,217	23,020	394	385	69,915	70,256
East North Central	85,268	88,156	88,501	89,308	90,056	91,551	280	289	264,105	269,303
Illinois	20,345	21,295	24,009	24,494	20,299	20,471	245	252	64,898	66,512
Indiana	14,793	15,554	11,412	11,570	20,036	21,036	10	11	46,250	48,171
Michigan	15,879	16,083	18,862	18,762	14,503	15,151	3	2	49,246	49,999
Ohio	23,788	24,803	22,669	22,905	23,463	23,271	22	23	69,943	71,003
Wisconsin	10,464	10,421	11,548	11,578	11,755	11,620	0	0	33,767	33,619
West North Central	49,165	49,171	49,027	49,372	42,338	41,030	24	23	140,554	139,595
Iowa	6,834	6,807	5,919	5,940	10,968	10,526	0	0	23,721	23,274
Kansas	5,876	6,114	7,276	7,388	5,276	5,223	0	0	18,428	18,725
Minnesota	10,768	10,537	11,220	11,313	10,152	9,605	12	12	32,152	31,467
Missouri	15,962	16,253	14,494	14,758	5,746	5,934	12	11	36,214	36,956
Nebraska	4,833	4,736	4,603	4,599	5,050	4,875	0	0	14,485	14,210
North Dakota	2,496	2,403	3,131	3,015	3,809	3,589	0	0	9,435	9,007
South Dakota	2,396	2,320	2,385	2,359	1,338	1,277	0	0	6,119	5,956
South Atlantic	161,324	167,711	148,247	148,861	67,738	67,912	638	671	377,946	385,155
Delaware	2,210	2,230	1,988	2,071	1,015	962	0	0	5,212	5,263
District of Columbia	1,129	1,159	3,869	4,135	85	87	159	163	5,241	5,544
Florida	54,633	55,357	45,317	44,918	8,124	8,131	45	48	108,119	108,454
Georgia	25,103	26,519	22,172	22,626	15,423	15,726	84	85	62,782	64,955
Maryland	12,578	13,172	13,916	14,207	1,821	1,827	264	279	28,579	29,486
North Carolina	26,018	27,622	22,813	22,999	13,208	13,098	2	3	62,041	63,723
South Carolina	13,392	14,306	10,241	10,481	13,203	13,126	0	0	36,836	37,913
Virginia	21,009	21,569	24,256	23,605	8,312	8,572	84	93	53,661	53,840
West Virginia	5,253	5,776	3,675	3,818	6,547	6,382	0	0	15,475	15,977
East South Central	52,689	55,636	42,363	43,098	48,781	47,929	0	0	143,833	146,663
Alabama	13,919	14,925	10,695	10,911	16,365	16,207	0	0	40,979	42,042
Kentucky	11,966	12,720	9,057	9,235	13,610	13,506	0	0	34,633	35,461
Mississippi	7,994	8,319	6,454	6,421	8,164	8,124	0	0	22,612	22,864
Tennessee	18,810	19,672	16,157	16,531	10,643	10,092	0	0	45,609	46,295
West South Central	93,866	94,992	90,911	90,233	88,162	84,354	93	91	273,032	269,670
Arkansas	7,913	8,057	5,560	5,559	8,138	7,675	0	0	21,611	21,292
Louisiana	13,157	13,520	11,521	11,537	16,990	16,573	6	6	41,674	41,636
Oklahoma	10,030	10,331	9,516	9,572	8,557	8,331	0	0	28,104	28,233
Texas	62,766	63,084	64,314	63,564	54,477	51,775	86	85	181,643	178,508
Mountain	45,549	44,678	46,262	45,331	39,641	40,521	70	66	131,522	130,597
Arizona	15,262	14,847	13,991	13,970	6,721	7,409	3	3	35,976	36,228
Colorado	8,879	8,949	9,814	9,791	7,456	7,397	33	32	26,181	26,169
Idaho	4,333	4,041	3,091	3,047	3,921	3,932	0	0	11,346	11,021
Montana	2,698	2,474	2,483	2,428	2,098	2,078	0	0	7,279	6,980
Nevada	5,613	5,527	5,214	4,499	6,155	6,669	4	4	16,986	16,698
New Mexico	3,088	3,148	4,280	4,235	3,601	3,636	0	0	10,969	11,019
Utah	4,227	4,266	5,528	5,528	4,639	4,475	30	27	14,423	14,296
Wyoming	1,450	1,427	1,862	1,833	5,051	4,926	0	0	8,363	8,186
Pacific Contiguous	71,048	67,553	78,020	77,038	39,881	41,016	427	403	189,376	186,010
California	40,925	40,210	54,912	54,652	22,321	23,411	412	388	118,569	118,661
Oregon	10,288	9,442	8,076	7,889	5,739	5,550	13	12	24,116	22,893
Washington	19,835	17,901	15,031	14,498	11,822	12,055	2	3	46,691	44,456
Pacific Noncontiguous	2,329	2,241	2,875	2,887	2,436	2,457	0	0	7,640	7,585
Alaska	1,079	1,011	1,391	1,379	683	671	0	0	3,154	3,061
Hawaii	1,250	1,230	1,484	1,508	1,753	1,786	0	0	4,486	4,524
U.S. Total	644,662	653,683	646,044	646,964	461,899	459,989	3,738	3,725	1,756,343	1,764,361

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	706	672	674	675	174	172	4	3	1,559	1,522
Connecticut	202	211	170	180	36	36	2	2	410	429
Maine	58	53	41	38	21	20	0	0	120	110
Massachusetts	311	277	337	335	77	76	1	1	726	688
New Hampshire	66	59	54	52	20	20	0	0	140	131
Rhode Island	42	46	47	45	10	9	0	0	99	100
Vermont	28	27	25	25	11	11	0	0	64	63
Middle Atlantic	1,762	1,723	1,760	1,741	418	430	38	37	3,977	3,931
New Jersey	431	421	441	434	67	62	2	2	941	920
New York	757	729	1,003	976	88	97	31	28	1,879	1,831
Pennsylvania	574	573	316	331	263	270	4	6	1,157	1,180
East North Central	2,132	2,130	1,637	1,609	1,122	1,076	3	3	4,894	4,818
Illinois	544	546	389	390	236	219	3	3	1,171	1,157
Indiana	325	318	215	204	255	241	0	0	796	763
Michigan	461	456	388	366	185	184	0	0	1,034	1,006
Ohio	534	544	405	408	275	265	0	0	1,214	1,217
Wisconsin	269	267	239	240	171	168	0	0	678	675
West North Central	1,165	1,192	950	930	592	561	0	0	2,708	2,684
Iowa	170	172	116	115	144	137	0	0	430	424
Kansas	177	200	150	155	68	69	0	0	394	424
Minnesota	245	227	224	197	143	125	0	0	612	550
Missouri	395	412	292	300	82	82	0	0	768	794
Nebraska	100	104	81	80	80	81	0	0	261	265
North Dakota	35	34	47	43	57	50	0	0	140	127
South Dakota	43	43	41	40	19	17	0	0	102	100
South Atlantic	3,830	3,868	2,604	2,610	771	776	9	8	7,213	7,262
Delaware	49	51	35	38	15	14	0	0	100	102
District of Columbia	28	33	84	87	1	1	3	2	116	123
Florida	1,349	1,299	809	775	112	112	1	1	2,271	2,187
Georgia	635	668	413	427	165	168	1	1	1,212	1,264
Maryland	325	321	277	286	26	24	4	3	631	634
North Carolina	556	588	370	377	138	149	0	0	1,063	1,114
South Carolina	357	368	211	215	140	142	0	0	707	725
Virginia	442	449	347	346	100	97	1	1	889	893
West Virginia	90	91	59	60	74	68	0	0	223	219
East South Central	1,118	1,131	837	829	518	502	0	0	2,473	2,462
Alabama	349	366	234	236	183	185	0	0	767	788
Kentucky	226	234	159	163	130	129	0	0	515	525
Mississippi	179	173	126	119	89	83	0	0	394	375
Tennessee	365	358	318	312	115	104	0	0	798	773
West South Central	2,214	2,128	1,501	1,381	894	756	1	1	4,610	4,266
Arkansas	157	148	94	90	92	85	0	0	343	324
Louisiana	273	249	203	179	177	129	0	0	652	557
Oklahoma	231	232	155	154	84	77	0	0	470	463
Texas	1,554	1,499	1,049	958	541	465	1	1	3,145	2,922
Mountain	1,229	1,213	911	875	527	514	1	1	2,669	2,603
Arizona	521	505	323	321	80	84	0	0	924	910
Colorado	213	215	189	180	101	97	1	1	504	492
Idaho	67	62	48	45	85	87	0	0	201	195
Montana	39	41	42	43	19	19	0	0	101	102
Nevada	178	186	84	70	86	72	0	0	348	328
New Mexico	86	75	92	84	40	40	0	0	218	199
Utah	103	107	100	103	57	57	0	0	260	267
Wyoming	23	22	31	30	60	58	0	0	113	110
Pacific Contiguous	1,846	1,736	2,091	1,924	821	771	7	7	4,765	4,438
California	1,470	1,371	1,765	1,605	660	613	6	6	3,902	3,595
Oregon	144	144	121	120	66	66	0	0	331	330
Washington	232	220	205	199	95	93	0	0	532	513
Pacific Noncontiguous	96	88	113	103	89	81	0	0	298	272
Alaska	31	30	43	40	19	17	0	0	93	87
Hawaii	65	59	69	63	70	64	0	0	205	185
U.S. Total	16,098	15,882	13,078	12,677	5,926	5,639	63	61	35,166	34,259

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 June 2017 and 2016 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	4,302	4,220	3,767	3,833	986	1,007	24	24	9,079	9,084
Connecticut	1,210	1,248	945	976	198	206	9	10	2,361	2,440
Maine	382	354	242	234	120	125	0	0	744	713
Massachusetts	1,855	1,783	1,864	1,901	432	436	12	12	4,163	4,132
New Hampshire	419	395	312	313	115	119	0	0	847	828
Rhode Island	260	264	263	267	52	52	3	3	577	585
Vermont	178	175	141	142	69	70	0	0	388	387
Middle Atlantic	9,707	9,574	9,282	9,253	2,418	2,449	214	205	21,621	21,482
New Jersey	2,004	1,989	2,275	2,255	355	342	14	13	4,648	4,599
New York	4,080	3,958	5,112	5,013	477	507	171	162	9,841	9,640
Pennsylvania	3,624	3,627	1,894	1,986	1,586	1,600	29	30	7,133	7,243
East North Central	11,270	11,331	8,963	8,718	6,338	6,231	19	20	26,589	26,299
Illinois	2,596	2,620	2,151	2,120	1,313	1,292	15	17	6,077	6,048
Indiana	1,766	1,727	1,175	1,103	1,482	1,427	1	1	4,424	4,258
Michigan	2,463	2,408	2,093	1,971	1,070	1,041	0	0	5,627	5,420
Ohio	2,914	3,079	2,262	2,254	1,563	1,581	2	2	6,741	6,916
Wisconsin	1,530	1,497	1,281	1,269	910	891	0	0	3,721	3,658
West North Central	5,762	5,593	4,713	4,581	3,012	2,821	2	2	13,490	12,997
Iowa	823	800	544	535	634	605	0	0	2,001	1,941
Kansas	772	793	757	762	395	390	0	0	1,925	1,944
Minnesota	1,392	1,309	1,175	1,095	779	687	1	1	3,347	3,091
Missouri	1,746	1,705	1,317	1,297	393	386	1	1	3,456	3,389
Nebraska	509	492	408	402	380	370	0	0	1,296	1,264
North Dakota	251	237	285	271	329	289	0	0	865	797
South Dakota	270	257	226	219	103	96	0	0	599	572
South Atlantic	19,145	19,403	13,973	13,868	4,315	4,239	51	53	37,484	37,562
Delaware	300	301	204	214	80	78	0	0	584	593
District of Columbia	145	152	458	488	7	8	15	15	626	663
Florida	6,394	6,185	4,333	4,119	641	624	4	4	11,371	10,932
Georgia	2,929	2,962	2,207	2,170	875	844	4	4	6,016	5,980
Maryland	1,798	1,884	1,531	1,565	155	145	21	22	3,505	3,616
North Carolina	2,871	3,064	1,930	1,973	785	786	0	0	5,586	5,822
South Carolina	1,714	1,766	1,066	1,051	788	762	0	0	3,567	3,579
Virginia	2,384	2,457	1,888	1,931	544	577	7	7	4,823	4,972
West Virginia	610	633	356	357	440	416	0	0	1,406	1,405
East South Central	5,932	5,906	4,466	4,292	2,895	2,679	0	0	13,292	12,877
Alabama	1,763	1,765	1,244	1,199	1,003	940	0	0	4,010	3,904
Kentucky	1,263	1,282	872	862	759	720	0	0	2,894	2,864
Mississippi	904	887	668	619	499	462	0	0	2,071	1,968
Tennessee	2,002	1,972	1,682	1,612	633	557	0	0	4,317	4,142
West South Central	10,088	9,985	7,586	7,030	4,760	4,255	7	5	22,442	21,275
Arkansas	794	775	465	449	467	434	0	0	1,726	1,659
Louisiana	1,229	1,201	1,023	975	888	797	1	1	3,141	2,974
Oklahoma	1,054	1,015	751	680	448	386	0	0	2,253	2,081
Texas	7,012	6,993	5,347	4,926	2,957	2,638	7	5	15,323	14,561
Mountain	5,341	5,132	4,414	4,260	2,506	2,459	7	6	12,269	11,856
Arizona	1,869	1,791	1,456	1,442	419	423	0	0	3,743	3,657
Colorado	1,065	1,042	956	911	537	509	3	3	2,560	2,465
Idaho	430	397	247	236	257	256	0	0	933	889
Montana	294	268	252	246	104	100	0	0	650	615
Nevada	668	651	408	368	338	342	0	0	1,414	1,361
New Mexico	394	363	434	401	217	207	0	0	1,045	971
Utah	461	464	481	484	282	279	3	3	1,226	1,229
Wyoming	162	156	181	172	353	341	0	0	696	670
Pacific Contiguous	10,369	9,490	10,178	9,742	3,519	3,512	35	35	24,101	22,778
California	7,409	6,839	8,194	7,834	2,628	2,644	33	34	18,264	17,351
Oregon	1,092	989	716	696	349	333	1	1	2,158	2,019
Washington	1,868	1,662	1,268	1,212	542	534	0	0	3,679	3,409
Pacific Noncontiguous	597	538	668	610	511	459	0	0	1,776	1,607
Alaska	230	205	274	248	115	102	0	0	619	555
Hawaii	368	333	394	362	396	358	0	0	1,157	1,052
U.S. Total	82,514	81,171	68,010	66,186	31,261	30,112	358	351	182,143	177,819

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	19.37	18.90	15.31	15.04	12.37	11.83	8.18	7.61	16.40	15.95
Connecticut	20.47	20.94	16.03	16.01	13.04	12.73	11.44	9.21	17.51	17.63
Maine	16.17	15.90	11.98	11.60	9.08	8.37	--	--	12.89	12.34
Massachusetts	19.97	18.52	15.74	15.34	13.65	12.88	5.32	5.58	16.94	16.05
New Hampshire	19.36	18.13	14.69	14.03	12.02	11.93	--	--	16.01	15.16
Rhode Island	16.71	18.69	14.55	14.47	14.04	13.29	19.80	18.74	15.35	16.02
Vermont	18.02	17.57	14.80	14.58	10.39	10.23	--	--	14.81	14.52
Middle Atlantic	16.49	15.98	13.39	13.07	6.98	7.17	12.27	10.97	13.21	12.92
New Jersey	15.96	16.05	13.34	13.40	11.11	10.68	9.23	8.91	14.18	14.21
New York	18.77	17.89	15.96	15.12	6.16	6.73	13.77	12.54	15.70	15.00
Pennsylvania	14.52	14.03	8.90	9.12	6.65	6.82	7.75	7.32	10.05	10.04
East North Central	13.49	13.02	10.20	9.88	7.13	6.92	6.77	6.97	10.28	9.99
Illinois	12.95	12.25	9.06	8.72	6.59	6.34	6.49	6.74	9.67	9.32
Indiana	12.05	11.33	10.37	9.56	7.35	6.92	10.96	9.40	9.65	9.06
Michigan	15.86	15.41	11.09	10.69	7.41	7.00	11.90	12.10	11.62	11.16
Ohio	12.67	12.47	9.88	9.82	6.76	6.74	7.38	8.13	9.80	9.77
Wisconsin	15.05	14.96	11.52	11.48	8.09	8.17	14.71	14.38	11.37	11.38
West North Central	13.36	12.75	10.73	10.26	7.88	7.80	11.29	10.99	10.79	10.48
Iowa	13.92	13.57	10.84	10.68	7.46	7.57	--	--	10.18	10.21
Kansas	13.56	13.30	10.99	10.58	7.37	7.60	--	--	10.99	10.93
Minnesota	13.96	12.81	11.21	9.88	8.13	7.57	10.80	10.61	11.11	10.13
Missouri	13.25	12.59	10.81	10.66	8.12	8.07	11.77	11.49	11.49	11.18
Nebraska	12.06	11.90	9.67	9.57	7.94	8.03	--	--	9.77	9.76
North Dakota	12.34	11.39	9.78	9.30	8.80	8.61	--	--	9.85	9.46
South Dakota	12.57	11.98	10.00	9.71	7.75	7.77	--	--	10.33	10.10
South Atlantic	12.20	11.84	9.39	9.35	6.57	6.64	8.06	7.98	10.17	10.03
Delaware	13.40	13.60	9.81	9.99	7.77	7.94	--	--	10.81	11.05
District of Columbia	12.59	12.85	11.63	11.58	8.34	10.40	9.55	10.23	11.73	11.86
Florida	12.02	11.08	9.60	8.92	8.01	7.79	8.54	7.92	10.79	10.01
Georgia	12.53	12.25	9.92	9.93	6.10	6.19	5.83	5.68	10.16	10.12
Maryland	14.22	14.61	10.61	11.04	8.14	7.64	7.86	7.62	12.01	12.33
North Carolina	11.07	11.13	8.32	8.63	6.14	6.43	8.35	7.59	9.08	9.31
South Carolina	13.07	12.68	10.66	10.58	6.27	6.39	--	--	10.20	10.13
Virginia	11.91	12.24	7.87	8.29	6.65	6.68	7.54	7.87	9.23	9.59
West Virginia	11.69	11.16	9.37	9.20	6.55	6.56	--	--	8.82	8.74
East South Central	11.47	10.93	10.69	10.15	6.13	6.06	--	--	9.50	9.19
Alabama	12.79	12.16	11.66	11.16	6.52	6.48	--	--	10.15	9.86
Kentucky	10.68	10.33	9.67	9.47	5.55	5.71	--	--	8.44	8.42
Mississippi	11.40	10.64	10.27	9.52	6.37	6.07	--	--	9.40	8.83
Tennessee	10.93	10.37	10.77	10.10	6.10	5.81	--	--	9.76	9.29
West South Central	10.93	10.54	8.47	7.86	5.62	5.23	8.27	5.63	8.55	8.17
Arkansas	10.73	10.31	8.77	8.47	6.26	6.41	11.22	10.98	8.57	8.44
Louisiana	10.19	8.96	9.39	8.11	5.87	4.42	10.56	9.07	8.31	7.05
Oklahoma	10.53	9.99	8.15	7.80	5.39	5.20	--	--	8.31	8.02
Texas	11.16	10.98	8.34	7.78	5.48	5.33	8.11	5.37	8.64	8.42
Mountain	12.34	12.05	10.26	10.13	7.09	6.78	10.43	9.77	10.15	9.90
Arizona	12.65	12.54	11.23	11.20	6.93	6.39	10.71	9.92	11.34	11.09
Colorado	12.75	12.56	10.72	10.25	7.61	7.41	10.86	9.92	10.57	10.30
Idaho	11.42	10.13	9.35	8.31	7.87	7.66	--	--	9.17	8.47
Montana	11.73	11.59	10.49	10.50	5.31	5.15	--	--	9.15	9.12
Nevada	11.64	11.40	7.59	7.92	7.31	5.98	8.54	7.81	9.13	8.82
New Mexico	13.41	12.22	10.93	10.12	6.02	6.18	--	--	10.16	9.51
Utah	11.48	11.51	9.48	9.78	7.02	7.45	10.20	9.90	9.41	9.71
Wyoming	12.21	11.81	10.22	9.77	6.90	6.97	--	--	8.38	8.29
Pacific Contiguous	16.45	15.49	14.98	13.99	10.93	10.13	8.50	9.17	14.54	13.59
California	19.39	18.11	17.32	16.05	15.05	13.61	8.47	9.18	17.55	16.24
Oregon	10.97	10.79	8.89	8.80	6.23	6.33	9.37	9.31	8.87	8.82
Washington	9.95	9.59	8.54	8.35	4.60	4.47	8.52	8.27	7.82	7.58
Pacific Noncontiguous	27.18	25.05	24.18	21.91	21.40	19.44	--	--	24.10	21.98
Alaska	22.13	21.31	20.76	18.64	16.86	15.71	--	--	20.24	18.76
Hawaii	30.45	27.50	26.95	24.69	23.03	20.75	--	--	26.37	23.90
U.S. Total	13.22	12.72	10.99	10.59	7.22	7.03	10.21	9.59	10.87	10.53

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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 June 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD	June 2017 YTD	June 2016 YTD
New England	19.27	19.18	15.10	15.17	12.33	12.04	8.52	8.62	16.34	16.25
Connecticut	20.07	20.78	15.92	15.87	13.17	13.11	10.84	11.15	17.43	17.66
Maine	16.04	15.53	12.29	12.12	9.35	8.86	--	--	13.20	12.68
Massachusetts	19.97	19.53	15.28	15.47	13.40	13.02	6.53	6.56	16.72	16.56
New Hampshire	19.01	18.35	14.63	14.48	12.28	12.36	--	--	16.04	15.67
Rhode Island	18.34	18.72	15.07	15.24	14.20	13.63	19.38	18.43	16.31	16.46
Vermont	17.57	17.19	14.59	14.47	10.13	10.03	--	--	14.58	14.34
Middle Atlantic	15.89	15.56	12.39	12.24	6.94	7.03	11.10	10.79	12.51	12.36
New Jersey	15.84	15.61	12.46	12.31	10.14	10.09	9.02	8.67	13.44	13.29
New York	17.71	17.17	14.30	13.87	5.86	6.01	12.40	11.87	14.41	13.97
Pennsylvania	14.26	14.08	9.07	9.41	6.83	6.95	7.35	7.78	10.20	10.31
East North Central	13.22	12.85	10.13	9.76	7.04	6.81	6.65	6.99	10.07	9.77
Illinois	12.76	12.30	8.96	8.66	6.47	6.31	6.31	6.78	9.36	9.09
Indiana	11.94	11.10	10.30	9.54	7.40	6.78	11.53	9.60	9.56	8.84
Michigan	15.51	14.97	11.10	10.50	7.38	6.87	12.13	11.49	11.43	10.84
Ohio	12.25	12.41	9.98	9.84	6.66	6.79	7.59	7.61	9.64	9.74
Wisconsin	14.62	14.37	11.09	10.96	7.74	7.67	14.42	14.59	11.02	10.88
West North Central	11.72	11.37	9.61	9.28	7.12	6.88	8.55	8.79	9.60	9.31
Iowa	12.05	11.76	9.19	9.01	5.78	5.75	--	--	8.44	8.34
Kansas	13.14	12.96	10.41	10.31	7.49	7.46	--	--	10.45	10.38
Minnesota	12.92	12.42	10.47	9.68	7.68	7.15	9.39	10.00	10.41	9.82
Missouri	10.94	10.49	9.09	8.79	6.83	6.50	7.68	7.41	9.54	9.17
Nebraska	10.52	10.39	8.87	8.74	7.52	7.58	--	--	8.95	8.89
North Dakota	10.04	9.87	9.11	8.99	8.63	8.05	--	--	9.16	8.85
South Dakota	11.28	11.08	9.46	9.29	7.69	7.49	--	--	9.79	9.60
South Atlantic	11.87	11.57	9.43	9.32	6.37	6.24	7.94	7.85	9.92	9.75
Delaware	13.57	13.52	10.24	10.33	7.91	8.09	--	--	11.20	11.27
District of Columbia	12.86	13.11	11.85	11.79	8.40	9.28	9.51	9.43	11.94	11.96
Florida	11.70	11.17	9.56	9.17	7.89	7.68	8.47	8.35	10.52	10.08
Georgia	11.67	11.17	9.96	9.59	5.67	5.36	5.10	4.67	9.58	9.21
Maryland	14.30	14.30	11.00	11.01	8.51	7.95	7.84	7.80	12.26	12.26
North Carolina	11.03	11.09	8.46	8.58	5.95	6.00	8.74	7.87	9.00	9.14
South Carolina	12.80	12.34	10.41	10.03	5.97	5.81	--	--	9.68	9.44
Virginia	11.35	11.39	7.79	8.18	6.54	6.73	7.79	7.89	8.99	9.24
West Virginia	11.61	10.96	9.69	9.34	6.72	6.52	--	--	9.09	8.80
East South Central	11.26	10.62	10.54	9.96	5.93	5.59	--	--	9.24	8.78
Alabama	12.67	11.83	11.63	10.99	6.13	5.80	--	--	9.79	9.29
Kentucky	10.55	10.08	9.63	9.34	5.58	5.33	--	--	8.36	8.08
Mississippi	11.32	10.66	10.35	9.64	6.11	5.69	--	--	9.16	8.61
Tennessee	10.64	10.02	10.41	9.75	5.95	5.52	--	--	9.47	8.95
West South Central	10.75	10.51	8.34	7.79	5.40	5.04	7.99	5.65	8.22	7.89
Arkansas	10.03	9.62	8.36	8.08	5.74	5.66	11.50	9.21	7.99	7.79
Louisiana	9.34	8.88	8.88	8.45	5.23	4.81	10.11	8.97	7.54	7.14
Oklahoma	10.50	9.83	7.90	7.10	5.24	4.63	--	--	8.02	7.37
Texas	11.17	11.09	8.31	7.75	5.43	5.10	7.82	5.41	8.44	8.16
Mountain	11.73	11.49	9.54	9.40	6.32	6.07	9.90	9.48	9.33	9.08
Arizona	12.24	12.06	10.40	10.33	6.24	5.71	8.84	8.80	10.41	10.09
Colorado	11.99	11.64	9.74	9.30	7.20	6.88	10.08	9.34	9.78	9.42
Idaho	9.92	9.82	7.98	7.74	6.55	6.51	--	--	8.23	8.06
Montana	10.90	10.85	10.16	10.12	4.94	4.82	--	--	8.93	8.80
Nevada	11.90	11.78	7.82	8.17	5.49	5.13	7.99	7.64	8.32	8.15
New Mexico	12.75	11.54	10.14	9.46	6.03	5.70	--	--	9.53	8.81
Utah	10.90	10.87	8.70	8.75	6.07	6.24	10.05	9.99	8.50	8.60
Wyoming	11.16	10.95	9.74	9.39	6.99	6.93	--	--	8.33	8.18
Pacific Contiguous	14.59	14.05	13.05	12.65	8.82	8.56	8.12	8.68	12.73	12.25
California	18.10	17.01	14.92	14.33	11.77	11.29	8.08	8.66	15.40	14.62
Oregon	10.62	10.47	8.87	8.82	6.07	6.00	9.31	9.25	8.95	8.82
Washington	9.42	9.29	8.44	8.36	4.59	4.43	9.10	9.27	7.88	7.67
Pacific Noncontiguous	25.65	23.99	23.23	21.14	20.97	18.70	--	--	23.25	21.19
Alaska	21.29	20.27	19.72	18.01	16.86	15.15	--	--	19.64	18.13
Hawaii	29.42	27.06	26.52	24.00	22.57	20.03	--	--	25.78	23.26
U.S. Total	12.80	12.42	10.53	10.23	6.77	6.55	9.58	9.41	10.37	10.08

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

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - June 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	131,092,578	18,139,923	811,825	83	150,044,409
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	130,338,099	17,991,439	804,007	77	149,133,622
February	130,108,685	18,008,942	799,795	80	148,917,502
March	131,347,329	18,177,656	810,362	86	150,335,433
April	130,487,840	18,048,726	797,985	83	149,334,634
May	131,044,577	18,110,084	813,813	86	149,968,560
June	131,330,842	18,162,550	827,304	86	150,320,782
July	131,138,573	18,138,230	821,488	82	150,098,373
August	131,372,255	18,209,116	832,566	82	150,414,019
Sept	131,392,256	18,200,641	820,906	82	150,413,885
October	131,335,623	18,202,781	813,555	83	150,352,042
November	131,340,409	18,176,864	799,953	83	150,317,309
December	131,874,453	18,252,051	800,163	83	150,926,750
Year 2017					
January	131,833,179	18,232,721	804,348	83	150,870,331
February	131,335,983	18,145,698	793,112	85	150,274,878
March	132,712,308	18,331,082	812,438	83	151,855,911
April	131,803,304	18,178,402	797,849	84	150,779,639
May	133,114,778	18,342,112	824,384	84	152,281,358
June	132,811,370	18,345,281	832,494	84	151,989,229
Rolling 12 Months Ending in June					
2016	130,461,172	18,074,844	827,433	81	149,363,529
2017	131,838,708	18,229,582	812,771	83	150,881,144

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 2015 and prior years are final. Values for 2017 and 2016 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: June 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	6,376,869	6,306,087	892,137	869,324	26,956	26,087	6	6	7,295,968	7,201,504
Connecticut	1,496,443	1,487,050	153,111	152,321	4,422	4,391	3	3	1,653,979	1,643,765
Maine	714,918	709,973	100,393	98,935	3,151	3,085	0	0	818,462	811,993
Massachusetts	2,784,798	2,740,014	414,262	396,312	14,103	13,329	2	2	3,213,165	3,149,657
New Hampshire	618,975	613,522	107,687	107,736	3,249	3,252	0	0	729,911	724,510
Rhode Island	445,537	440,826	60,319	58,851	1,806	1,814	1	1	507,663	501,492
Vermont	316,198	314,702	56,365	55,169	225	216	0	0	372,788	370,087
Middle Atlantic	16,046,183	15,960,511	2,309,110	2,289,306	42,304	42,819	20	23	18,397,617	18,292,659
New Jersey	3,540,625	3,520,450	519,389	514,712	11,798	11,906	6	6	4,071,818	4,047,074
New York	7,145,861	7,109,716	1,091,027	1,076,564	7,588	7,695	8	11	8,244,484	8,193,986
Pennsylvania	5,359,697	5,330,345	698,694	698,030	22,918	23,218	6	6	6,081,315	6,051,599
East North Central	20,114,785	19,975,576	2,490,780	2,469,823	53,212	52,271	9	8	22,658,786	22,497,678
Illinois	5,269,638	5,233,666	609,240	605,173	5,755	5,495	3	3	5,884,636	5,844,337
Indiana	2,827,025	2,812,705	350,400	347,740	17,719	17,456	1	1	3,195,145	3,177,902
Michigan	4,362,417	4,327,211	550,039	542,664	NM	NM	2	1	4,918,263	4,875,629
Ohio	4,952,544	4,924,002	625,511	622,353	19,076	18,788	2	2	5,597,133	5,565,145
Wisconsin	2,703,161	2,677,992	355,590	351,893	NM	NM	1	1	3,063,609	3,034,665
West North Central	9,459,420	9,365,946	1,451,753	1,435,694	116,796	114,948	3	3	11,027,972	10,916,591
Iowa	1,382,122	1,366,747	243,183	239,878	NM	NM	0	0	1,632,262	1,613,483
Kansas	1,270,447	1,258,450	233,051	233,039	26,173	26,323	0	0	1,529,671	1,517,812
Minnesota	2,390,202	2,363,966	288,509	284,922	NM	NM	1	1	2,687,021	2,657,059
Missouri	2,785,587	2,764,346	379,383	375,322	8,420	8,356	2	2	3,173,392	3,148,026
Nebraska	854,876	843,767	161,244	158,155	55,844	54,301	0	0	1,071,964	1,056,223
North Dakota	377,199	374,482	73,318	72,162	8,006	7,900	0	0	458,523	454,544
South Dakota	398,987	394,188	73,065	72,216	NM	NM	0	0	475,139	469,444
South Atlantic	27,607,808	27,220,885	3,746,884	3,733,941	80,594	80,183	13	13	31,435,299	31,035,022
Delaware	423,519	417,910	53,908	53,028	1,193	1,128	0	0	478,620	472,066
District of Columbia	267,538	258,720	26,123	25,910	1	1	3	3	293,665	284,634
Florida	9,250,603	9,111,904	1,220,058	1,209,383	20,945	20,742	2	2	10,491,608	10,342,031
Georgia	4,327,205	4,262,619	575,567	574,184	19,909	19,457	1	1	4,922,682	4,856,261
Maryland	2,313,280	2,293,269	252,182	251,028	8,843	8,814	5	5	2,574,310	2,553,116
North Carolina	4,498,213	4,430,937	684,643	687,735	10,012	10,054	1	1	5,192,869	5,128,727
South Carolina	2,263,378	2,224,811	362,315	358,604	4,330	4,489	0	0	2,630,023	2,587,904
Virginia	3,407,113	3,361,271	428,219	431,167	3,803	3,795	1	1	3,839,136	3,796,234
West Virginia	856,959	859,444	143,869	142,902	11,558	11,703	0	0	1,012,386	1,014,049
East South Central	8,404,068	8,315,378	1,386,919	1,377,655	25,252	25,337	0	0	9,816,239	9,718,370
Alabama	2,242,041	2,220,148	367,005	366,897	8,234	8,201	0	0	2,617,280	2,595,246
Kentucky	1,985,671	1,969,730	300,457	297,512	7,715	7,736	0	0	2,293,843	2,274,978
Mississippi	1,309,410	1,296,211	236,804	236,306	7,900	8,000	0	0	1,554,114	1,540,517
Tennessee	2,866,946	2,829,289	482,653	476,940	1,403	1,400	0	0	3,351,002	3,307,629
West South Central	15,911,289	15,599,898	2,238,366	2,188,347	188,389	185,761	6	6	18,338,050	17,974,012
Arkansas	1,385,158	1,370,945	190,592	189,384	36,440	37,816	2	2	1,612,192	1,598,147
Louisiana	2,088,667	2,066,564	292,071	291,906	18,842	18,693	1	1	2,399,581	2,377,164
Oklahoma	1,769,182	1,749,290	281,917	281,140	18,087	18,089	0	0	2,069,186	2,048,519
Texas	10,668,282	10,413,099	1,473,786	1,425,917	115,020	111,163	3	3	12,257,091	11,950,182
Mountain	9,636,134	9,501,814	1,382,097	1,366,393	91,018	89,959	4	4	11,109,253	10,958,170
Arizona	2,743,287	2,702,149	320,717	315,997	6,968	6,711	1	1	3,070,973	3,024,858
Colorado	2,284,230	2,254,090	360,835	357,470	14,675	14,645	1	1	2,659,741	2,626,206
Idaho	725,050	712,334	108,635	107,061	28,504	28,184	0	0	862,189	847,579
Montana	505,259	498,871	108,638	107,005	9,311	9,121	0	0	623,208	614,997
Nevada	1,163,420	1,145,698	163,148	161,446	NM	NM	1	1	1,330,077	1,310,615
New Mexico	893,459	887,902	138,657	138,287	8,676	8,566	0	0	1,040,792	1,034,755
Utah	1,050,164	1,030,141	122,537	120,520	9,577	9,578	1	1	1,182,279	1,160,240
Wyoming	271,265	270,629	58,930	58,607	9,799	9,684	0	0	339,994	338,920
Pacific Contiguous	18,535,204	18,369,865	2,332,233	2,318,124	205,788	207,772	23	23	21,073,248	20,895,784
California	13,771,219	13,676,595	1,703,636	1,706,449	150,031	152,528	15	15	15,624,901	15,535,587
Oregon	1,738,369	1,718,009	238,704	234,605	26,514	26,296	2	2	2,003,589	1,978,912
Washington	3,025,616	2,975,261	389,893	377,070	29,243	28,948	6	6	3,444,758	3,381,285
Pacific Noncontiguous	719,610	714,882	115,002	113,943	NM	NM	0	0	836,797	830,992
Alaska	287,411	284,527	53,578	52,879	NM	NM	0	0	342,392	338,776
Hawaii	432,199	430,355	61,424	61,064	782	797	0	0	494,405	492,216
U.S. Total	132,811,370	131,330,842	18,345,281	18,162,550	832,494	827,304	84	86	151,989,229	150,320,782

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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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 6.1. Electric Generating Summer Capacity Changes (MW), May 2017 to June 2017

		As of End of May 2017	Activity During June 2017 as Reported to EIA		As of End of June 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*	*83,234.7*	*180.0*	*32.9*	*83,381.8*	*147.1*	*2,099.6*	*9,094.7*	*282.9*	*6,330.8*	*0.0*	*17.0*	*282.9*	*6,313.8*	*83,664.7*	*89,695.6*
..... *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	83,264.0	180.0	32.9	83,411.1	147.1	2,099.6	9,124.0	282.9	6,330.8	0.0	17.0	282.9	6,313.8	83,694.0	89,724.9
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*21,747.1*	*257.8*	*13.6*	*21,991.3*	*244.2*	*2,221.0*	*8,571.1*	*318.4*	*4,882.6*	*0.0*	*0.0*	*318.4*	*4,882.6*	*22,309.7*	*26,873.9*
..... *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	23,505.0	257.8	13.6	23,749.2	244.2	2,221.0	8,571.1	318.4	4,882.6	0.0	0.0	318.4	4,882.6	24,067.6	28,631.8
..... Conventional Hydroelectric	Utility Scale Facilities	79,959.6	29.4	7.6	79,981.4	21.8	-4.0	76.1	50.6	313.6	0.0	109.2	50.6	204.4	80,032.0	80,185.8
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*9,053.4*	*8.8*	*1.2*	*9,061.0*	*7.6*	*117.7*	*106.7*	*50.0*	*144.4*	*0.0*	*0.0*	*50.0*	*144.4*	*9,111.0*	*9,205.4*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,093.3*	*9.4*	*11.3*	*2,091.4*	*-1.9*	*-25.1*	*-29.2*	*0.0*	*5.7*	*0.0*	*2.3*	*0.0*	*3.4*	*2,091.4*	*2,094.8*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,246.8*	*0.0*	*0.0*	*2,246.8*	*0.0*	*-0.3*	*-0.3*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*-12.0*	*2,246.8*	*2,234.8*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*787.0*	*14.0*	*16.5*	*784.5*	*-2.5*	*13.5*	*-25.8*	*3.2*	*57.4*	*0.0*	*0.0*	*3.2*	*57.4*	*787.7*	*841.9*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,180.5	32.2	29.0	14,183.7	3.2	105.8	51.4	53.2	207.5	0.0	14.3	53.2	193.2	14,236.9	14,376.9
..... Geothermal	Utility Scale Facilities	2,453.0	3.6	0.0	2,456.6	3.6	-54.9	-84.9	0.0	37.0	0.0	0.0	0.0	37.0	2,456.6	2,493.6
... Renewable Sources Subtotal	***Utility Scale Facilities***	***203,362.1***	***503.0***	***83.1***	***203,782.0***	***419.9***	***4,367.5***	***17,737.7***	***705.1***	***11,771.5***	***0.0***	***140.5***	***705.1***	***11,631.0***	***204,487.1***	***215,413.0***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*242,045.0*	*2,414.5*	*124.9*	*244,334.6*	*2,289.6*	*4,815.4*	*6,820.7*	*847.6*	*15,903.7*	*0.0*	*0.0*	*847.6*	*15,903.7*	*245,182.2*	*260,238.3*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*127,757.9*	*367.4*	*710.8*	*127,414.5*	*-343.4*	*667.4*	*3,158.6*	*550.6*	*3,866.2*	*0.0*	*178.2*	*550.6*	*3,688.0*	*127,965.1*	*131,102.5*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,259.4*	*259.0*	*1,288.8*	*76,229.6*	*-1,029.8*	*-196.6*	*-2,306.9*	*0.0*	*0.0*	*0.0*	*1,840.9*	*0.0*	*-1,840.9*	*76,229.6*	*74,388.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,266.3*	*6.0*	*5.3*	*4,267.0*	*0.7*	*228.2*	*505.3*	*8.9*	*217.0*	*0.9*	*0.9*	*8.0*	*216.1*	*4,275.0*	*4,483.1*
..... *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*	*119.0*	*1.4*	*0.0*	*120.4*	*1.4*	*4.1*	*13.3*	*3.7*	*30.6*	*0.0*	*0.0*	*3.7*	*30.6*	*124.1*	*151.0*
..... Natural Gas Subtotal	Utility Scale Facilities	451,557.6	3,048.3	2,129.8	452,476.1	918.5	5,518.5	8,191.0	1,410.8	20,017.5	0.9	2,020.0	1,409.9	17,997.5	453,886.0	470,473.6
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*263,398.2*	*54.1*	*1,989.6*	*261,462.7*	*-1,935.5*	*-7,783.2*	*-9,394.6*	*0.0*	*0.0*	*0.0*	*7,287.0*	*0.0*	*-7,287.0*	*261,462.7*	*254,175.7*
..... *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	264,213.2	54.1	1,989.6	262,277.7	-1,935.5	-7,783.2	-9,394.6	0.0	0.0	0.0	7,287.0	0.0	-7,287.0	262,277.7	254,990.7
..... Petroleum Coke	Utility Scale Facilities	1,536.7	0.0	0.0	1,536.7	0.0	-3.6	-3.6	0.0	0.0	0.0	0.0	0.0	0.0	1,536.7	1,536.7
..... Petroleum Liquids	Utility Scale Facilities	33,795.2	18.6	1,527.1	32,286.7	-1,508.5	-2,570.9	-2,644.4	4.8	25.7	49.1	134.9	-44.3	-109.2	32,242.4	32,177.5
..... Other Gases	Utility Scale Facilities	2,455.5	0.0	0.0	2,455.5	0.0	-41.7	-44.9	0.0	0.0	0.0	0.0	0.0	0.0	2,455.5	2,455.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***753,558.2***	***3,121.0***	***5,646.5***	***751,032.7***	***-2,525.5***	***-4,880.9***	***-3,896.5***	***1,415.6***	***20,043.2***	***50.0***	***9,441.9***	***1,365.6***	***10,601.3***	***752,398.3***	***761,634.0***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,814.1	0.0	0.0	22,814.1	0.0	144.0	144.0	0.0	57.0	0.0	0.0	0.0	57.0	22,814.1	22,871.1
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	649.6	5.5	0.0	655.1	5.5	115.4	235.4	33.2	87.9	0.0	0.0	33.2	87.9	688.3	743.0
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,505.7***	***5.5***	***0.0***	***23,511.2***	***5.5***	***257.4***	***377.4***	***33.2***	***144.9***	***0.0***	***0.0***	***33.2***	***144.9***	***23,544.4***	***23,656.1***
... Nuclear	***Utility Scale Facilities***	***99,454.8***	***19.3***	***104.0***	***99,370.1***	***-84.7***	***54.2***	***-423.9***	***20.0***	***42.0***	***0.0***	***1,819.0***	***20.0***	***-1,777.0***	***99,390.1***	***97,593.1***
... All Other	***Utility Scale Facilities***	***1,379.2***	***0.0***	***2.0***	***1,377.2***	***-2.0***	***-107.6***	***-92.6***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,377.2***	***1,432.0***
TOTAL	**UTILITY SCALE FACILITIES**	**1,081,260.0**	**3,648.8**	**5,835.6**	**1,079,073.2**	**-2,186.8**	**-309.4**	**13,702.1**	**2,173.9**	**32,056.4**	**50.0**	**11,401.4**	**2,123.9**	**20,655.0**	**1,081,197.1**	**1,099,728.2**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*14,509.8*			*14,690.5*	*180.7*	*1,507.3*	*3,121.7*								
..... Estimated Total Solar Photovoltaic	All Facilities	36,256.9			36,681.8	424.9	3,728.3	11,692.8								
... Estimated Total Solar	***All Facilities***	***38,014.8***			***38,439.7***	***424.9***	***3,728.3***	***11,692.8***								

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 - June 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	19,770.3	13,183.2	32,953.5
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	12,272.1	10,226.8	22,498.9
February	12,401.5	10,486.5	22,888.0
March	12,583.1	10,809.5	23,392.6
April	13,123.6	11,069.8	24,193.4
May	13,231.7	11,311.7	24,543.4
June	13,420.2	11,568.8	24,989.0
July	14,145.5	11,781.0	25,926.5
August	15,077.2	12,063.5	27,140.7
Sept	15,844.7	12,305.5	28,150.2
October	16,408.2	12,567.0	28,975.2
November	16,950.8	12,855.4	29,806.2
December	19,770.3	13,183.2	32,953.5
Year 2017			
January	20,135.6	13,348.4	33,484.0
February	20,327.7	13,807.7	34,135.4
March	20,765.0	14,107.5	34,872.5
April	21,350.7	14,282.4	35,633.1
May	21,747.1	14,509.8	36,256.9
June	21,991.3	14,690.5	36,681.8

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

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - June 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	7,421.2	4,680.8	1,081.2	13,183.2
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	5,352.9	3,991.9	882.0	10,226.8
February	5,550.7	4,033.4	902.4	10,486.5
March	5,775.1	4,104.2	930.3	10,809.5
April	5,972.7	4,149.0	948.1	11,069.8
May	6,159.1	4,188.8	963.7	11,311.7
June	6,352.0	4,239.0	977.7	11,568.8
July	6,512.3	4,271.8	996.9	11,781.0
August	6,704.7	4,343.1	1,015.8	12,063.5
Sept	6,873.9	4,404.9	1,026.7	12,305.5
October	7,060.2	4,469.8	1,037.0	12,567.0
November	7,241.6	4,565.7	1,048.1	12,855.4
December	7,421.2	4,680.8	1,081.2	13,183.2
Year 2017				
January	7,548.4	4,710.9	1,089.1	13,348.4
February	7,890.4	4,704.1	1,213.2	13,807.7
March	8,070.1	4,726.7	1,310.7	14,107.5
April	8,249.1	4,711.8	1,321.5	14,282.4
May	8,483.5	4,689.3	1,337.1	14,509.8
June	8,565.2	4,755.4	1,369.9	14,690.5

Values are preliminary.

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, June 2017 and 2016 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	5,547.2	5,046.0	21,280.2	22,722.5	1,797.4	1,797.4	21.5	4.0	4,015.9	4,018.0	48.0	48.0	32,710.2	33,635.9
Connecticut	350.0	335.7	6,339.8	6,307.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,833.8	8,786.0
Maine	2,435.0	2,150.5	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,915.7	4,615.0
Massachusetts	1,142.1	1,004.8	8,327.2	9,811.0	1,768.0	1,768.0	2.5	2.0	677.2	682.3	0.0	0.0	11,917.0	13,268.1
New Hampshire	928.9	932.5	2,266.0	2,270.9	0.0	0.0	0.0	0.0	1,250.9	1,247.9	0.0	0.0	4,445.8	4,451.3
Rhode Island	101.6	55.8	1,806.8	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,908.4	1,847.1
Vermont	589.6	566.7	97.9	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	689.5	668.4
Middle Atlantic	10,982.4	10,723.9	68,164.8	68,143.6	3,409.1	3,409.1	70.4	70.5	19,211.3	19,224.5	11.2	11.2	101,849.2	101,582.8
New Jersey	880.9	739.4	12,326.5	13,588.3	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	17,746.5	18,866.8
New York	7,221.4	7,128.1	26,059.5	25,956.7	1,406.1	1,406.1	20.0	20.0	5,410.4	5,397.6	0.0	0.0	40,117.4	39,908.5
Pennsylvania	2,880.1	2,856.4	29,778.8	28,598.6	1,583.0	1,583.0	50.4	50.5	9,693.0	9,719.0	0.0	0.0	43,985.3	42,807.5
East North Central	10,824.5	10,213.2	113,139.9	113,702.6	2,133.0	2,037.0	187.4	177.4	18,913.6	18,896.1	110.1	110.1	145,308.5	145,136.4
Illinois	4,172.4	3,977.0	28,975.0	29,441.5	0.0	0.0	112.4	112.4	11,589.6	11,589.6	0.0	0.0	44,849.4	45,120.5
Indiana	2,205.8	2,159.5	23,056.0	23,353.9	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,372.8	25,624.4
Michigan	2,467.8	2,258.4	20,798.6	20,757.1	2,133.0	2,037.0	0.0	0.0	3,997.4	3,976.5	0.0	0.0	29,396.8	29,029.0
Ohio	851.7	717.8	25,810.5	25,800.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	28,849.2	28,694.8
Wisconsin	1,126.8	1,100.5	14,499.8	14,350.1	0.0	0.0	0.0	0.0	1,192.6	1,196.0	21.1	21.1	16,840.3	16,667.7
West North Central	25,489.2	21,577.4	60,980.2	60,582.9	657.0	657.0	2.0	2.0	5,394.9	5,855.5	24.5	24.5	92,547.8	88,699.3
Iowa	6,907.1	6,352.8	10,004.9	9,532.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,513.4	16,486.7
Kansas	5,130.2	3,863.7	9,782.1	9,716.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	16,088.1	14,756.3
Minnesota	4,547.6	3,917.3	10,087.6	10,132.6	0.0	0.0	1.0	1.0	1,657.0	1,647.0	18.4	18.4	16,311.6	15,716.3
Missouri	1,245.2	1,040.8	18,578.4	18,659.1	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,671.6	21,547.9
Nebraska	1,629.5	1,225.5	6,215.5	6,236.1	0.0	0.0	0.0	0.0	771.5	1,242.1	0.0	0.0	8,616.5	8,703.7
North Dakota	3,592.8	2,741.5	4,624.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,362.3
South Dakota	2,436.8	2,435.8	1,687.1	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,126.1
South Atlantic	17,016.3	14,505.7	160,778.8	159,724.8	7,905.2	7,905.2	80.5	77.5	24,598.6	24,578.6	402.7	509.7	210,782.1	207,301.5
Delaware	46.4	44.9	3,329.5	3,359.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	3,404.4
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	1,726.7	1,435.8	54,163.5	53,842.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	59,810.9	59,199.1
Georgia	3,916.1	3,246.7	26,968.8	27,190.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,809.1	36,361.8
Maryland	1,059.9	1,025.0	10,287.3	9,556.7	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,068.0	12,300.5
North Carolina	5,533.6	4,263.1	21,605.1	22,021.3	86.0	86.0	1.0	0.0	5,113.6	5,113.6	54.0	161.0	32,393.3	31,645.0
South Carolina	1,820.5	1,790.4	11,529.3	11,633.0	2,716.0	2,716.0	0.0	0.0	6,576.2	6,556.2	0.0	0.0	22,642.0	22,695.6
Virginia	1,865.3	1,757.8	18,723.0	17,948.5	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,397.3	26,515.3
West Virginia	1,035.8	930.0	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	15,158.8
East South Central	8,444.1	8,214.6	65,658.7	65,940.3	1,616.3	1,616.3	0.0	0.0	10,990.1	10,990.1	1.4	1.4	86,710.6	86,762.7
Alabama	4,082.2	3,939.9	20,180.7	20,214.5	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,329.3	29,220.8
Kentucky	1,114.4	1,110.9	18,874.6	19,004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,989.0	20,115.4
Mississippi	333.3	274.7	14,302.0	14,407.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	16,037.7	16,084.5
Tennessee	2,914.2	2,889.1	12,301.4	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,354.6	21,342.0
West South Central	32,865.9	28,420.7	143,956.3	144,741.1	286.0	286.0	41.0	40.0	8,910.7	8,896.2	520.1	512.2	186,580.0	182,896.2
Arkansas	1,592.1	1,591.6	11,265.2	11,256.6	28.0	28.0	0.0	0.0	1,817.8	1,808.5	0.0	0.0	14,703.1	14,684.7
Louisiana	682.1	687.1	21,075.5	22,510.4	0.0	0.0	0.0	0.0	2,132.9	2,127.7	296.1	275.9	24,186.6	25,601.1
Oklahoma	7,585.8	6,389.5	18,174.7	18,162.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,018.5	24,809.9
Texas	23,005.9	19,752.5	93,440.9	92,811.7	0.0	0.0	41.0	40.0	4,960.0	4,960.0	224.0	236.3	121,671.8	117,800.5
Mountain	25,361.7	22,548.2	63,594.1	64,087.8	778.8	778.8	42.6	2.6	3,937.0	3,937.0	126.3	119.8	93,840.5	91,474.2
Arizona	4,994.0	4,557.4	19,407.3	19,382.4	216.3	216.3	40.0	0.0	3,937.0	3,937.0	0.0	0.0	28,594.6	28,093.1
Colorado	4,159.7	3,873.1	11,349.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,080.5	15,807.9
Idaho	4,013.3	3,776.1	1,147.1	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,175.2	4,948.4
Montana	3,437.3	3,414.1	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,221.7	6,198.5
Nevada	3,344.4	2,798.8	7,991.6	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	11,342.5	11,057.5
New Mexico	2,031.1	1,517.8	6,824.0	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,857.7	8,457.3
Utah	1,587.5	896.5	7,348.2	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,975.9	8,399.1
Wyoming	1,794.4	1,714.4	6,786.5	6,786.5	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,592.4	8,512.4
Pacific Contiguous	66,122.8	63,714.7	49,263.1	51,124.2	4,231.3	4,183.3	167.2	33.7	3,398.0	3,398.0	106.3	106.3	123,288.7	122,560.2
California	29,159.7	26,954.3	40,189.2	42,436.7	3,917.3	3,869.3	157.0	25.5	2,240.0	2,240.0	106.3	106.3	75,769.5	75,632.1
Oregon	12,164.6	12,041.1	4,318.1	3,872.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,487.7	15,918.9
Washington	24,798.5	24,719.3	4,755.8	4,814.7	314.0	314.0	5.2	3.2	1,158.0	1,158.0	0.0	0.0	31,031.5	31,009.2
Pacific Noncontiguous	1,127.9	1,079.9	4,216.6	4,159.4	0.0	0.0	84.5	56.0	0.0	0.0	26.6	26.6	5,455.6	5,321.9
Alaska	537.8	508.7	2,159.4	2,102.2	0.0	0.0	45.0	29.0	0.0	0.0	0.0	0.0	2,742.2	2,639.9
Hawaii	590.1	571.2	2,057.2	2,057.2	0.0	0.0	39.5	27.0	0.0	0.0	26.6	26.6	2,713.4	2,682.0
U.S. Total	203,782.0	186,044.3	751,032.7	754,929.2	22,814.1	22,670.1	697.1	463.7	99,370.1	99,794.0	1,377.2	1,469.8	1,079,073.2	1,065,371.1

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

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

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

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

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	1,347.9	1,009.8	599.1	432.3	0.0	0.0	1,957.4	1,955.2	1,642.8	1,648.7	0.0	0.0	5,547.2	5,046.0	1,573.8	1,222.1	2,172.9	1,654.4	2,172.9	1,654.4
Connecticut	1.1	1.1	23.2	13.2	0.0	0.0	122.2	122.2	203.5	199.2	0.0	0.0	350.0	335.7	292.0	217.1	315.2	230.3	315.2	230.3
Maine	898.8	612.8	0.0	0.0	0.0	0.0	732.4	728.9	803.8	808.8	0.0	0.0	2,435.0	2,150.5	27.6	19.9	27.6	19.9	27.6	19.9
Massachusetts	92.9	86.6	500.0	369.0	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,142.1	1,004.8	1,074.8	877.7	1,574.8	1,246.7	1,574.8	1,246.7
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	244.6	0.0	0.0	928.9	932.5	63.7	36.5	63.7	36.5	63.7	36.5
Rhode Island	51.8	6.0	10.2	10.2	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	101.6	55.8	35.4	13.8	45.6	24.0	45.6	24.0
Vermont	120.2	120.2	65.7	39.9	0.0	0.0	329.4	330.7	74.3	75.9	0.0	0.0	589.6	566.7	80.3	57.3	146.0	97.2	146.0	97.2
Middle Atlantic	3,204.1	3,088.1	798.8	629.1	0.0	0.0	5,630.7	5,623.5	1,348.8	1,383.2	0.0	0.0	10,982.4	10,723.9	2,435.5	1,982.5	3,234.3	2,611.6	3,234.3	2,611.6
New Jersey	7.6	7.6	633.7	490.4	0.0	0.0	12.3	12.3	227.3	229.1	0.0	0.0	880.9	739.4	1,319.8	1,149.4	1,953.5	1,639.8	1,953.5	1,639.8
New York	1,824.7	1,747.0	116.7	94.3	0.0	0.0	4,718.8	4,711.6	561.2	575.2	0.0	0.0	7,221.4	7,128.1	858.3	631.9	975.0	726.2	975.0	726.2
Pennsylvania	1,371.8	1,333.5	48.4	44.4	0.0	0.0	899.6	899.6	560.3	578.9	0.0	0.0	2,880.1	2,856.4	257.4	201.2	305.8	245.6	305.8	245.6
East North Central	8,322.7	7,814.1	348.3	217.5	0.0	0.0	853.1	910.3	1,300.4	1,271.3	0.0	0.0	10,824.5	10,213.2	226.6	161.3	574.9	378.8	574.9	378.8
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	121.7	110.3	0.0	0.0	4,172.4	3,977.0	37.6	23.9	70.4	56.7	70.4	56.7
Indiana	1,889.7	1,889.7	172.6	131.9	0.0	0.0	60.4	60.4	83.1	77.5	0.0	0.0	2,205.8	2,159.5	17.5	9.5	190.1	141.4	190.1	141.4
Michigan	1,583.8	1,360.1	60.5	6.9	0.0	0.0	263.0	330.9	560.5	560.5	0.0	0.0	2,467.8	2,258.4	NM	30.3	NM	37.2	NM	37.2
Ohio	533.9	433.1	67.5	44.9	0.0	0.0	101.9	101.9	148.4	137.9	0.0	0.0	851.7	717.8	89.0	74.8	156.5	119.7	156.5	119.7
Wisconsin	331.5	331.4	14.9	1.0	0.0	0.0	393.7	383.0	386.7	385.1	0.0	0.0	1,126.8	1,100.5	35.9	22.8	50.8	23.8	50.8	23.8
West North Central	21,252.6	17,718.0	394.1	30.4	0.0	0.0	3,289.4	3,278.1	553.1	550.9	0.0	0.0	25,489.2	21,577.4	223.8	172.2	617.9	202.6	617.9	202.6
Iowa	6,738.2	6,184.7	2.6	0.0	0.0	0.0	144.9	144.9	21.4	23.2	0.0	0.0	6,907.1	6,352.8	52.5	35.1	55.1	35.1	55.1	35.1
Kansas	5,113.2	3,846.7	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,130.2	3,863.7	8.4	5.8	9.4	6.8	9.4	6.8
Minnesota	3,506.5	3,240.7	354.5	5.3	0.0	0.0	205.9	194.6	480.7	476.7	0.0	0.0	4,547.6	3,917.3	35.4	24.2	389.9	29.5	389.9	29.5
Missouri	654.3	458.5	28.7	20.1	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,245.2	1,040.8	123.7	104.9	152.4	125.0	152.4	125.0
Nebraska	1,329.6	927.9	6.3	4.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,225.5	2.9	1.4	9.2	5.4	9.2	5.4
North Dakota	3,073.0	2,221.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	2,741.5	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,435.8	0.7	0.6	1.7	0.6	1.7	0.6
South Atlantic	1,086.3	775.3	4,409.4	2,307.2	0.0	0.0	7,257.6	7,249.3	4,263.0	4,173.9	0.0	0.0	17,016.3	14,505.7	1,323.3	947.5	5,732.7	3,254.7	5,732.7	3,254.7
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	90.8	75.4	123.0	106.1	123.0	106.1
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	46.8	33.3	46.8	33.3	46.8	33.3
Florida	0.0	0.0	375.5	92.7	0.0	0.0	54.5	54.5	1,296.7	1,288.6	0.0	0.0	1,726.7	1,435.8	166.9	139.0	542.4	231.7	542.4	231.7
Georgia	0.0	0.0	968.1	303.8	0.0	0.0	2,047.2	2,045.1	900.8	897.8	0.0	0.0	3,916.1	3,246.7	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	137.9	103.0	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,059.9	1,025.0	629.0	458.9	766.9	561.9	766.9	561.9
North Carolina	208.0	0.0	2,759.5	1,771.5	0.0	0.0	2,002.0	2,004.1	564.1	487.5	0.0	0.0	5,533.6	4,263.1	118.6	94.6	2,878.1	1,866.1	2,878.1	1,866.1
South Carolina	0.0	0.0	29.3	2.5	0.0	0.0	1,348.4	1,345.1	442.8	442.8	0.0	0.0	1,820.5	1,790.4	91.4	17.5	120.7	20.0	120.7	20.0
Virginia	0.0	0.0	106.9	3.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,865.3	1,757.8	45.4	26.0	152.3	29.0	152.3	29.0
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	349.5	344.5	0.0	2.2	0.0	0.0	1,035.8	930.0	5.1	4.0	5.1	4.0	5.1	4.0
East South Central	29.1	29.1	224.5	55.2	0.0	0.0	6,921.0	6,919.8	1,269.5	1,210.5	0.0	0.0	8,444.1	8,214.6	77.0	55.8	301.5	111.0	301.5	111.0
Alabama	0.0	0.0	85.6	0.0	0.0	0.0	3,270.2	3,271.0	726.4	668.9	0.0	0.0	4,082.2	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	10.0	0.0	0.0	1,032.2	1,030.2	72.2	70.7	0.0	0.0	1,114.4	1,110.9	16.1	11.0	26.1	21.0	26.1	21.0
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	4.3	2.9	62.9	2.9	62.9	2.9
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	52.3	39.5	122.6	84.7	122.6	84.7
West South Central	27,531.7	23,727.8	985.3	333.4	0.0	0.0	2,990.3	2,986.5	1,358.6	1,373.0	0.0	0.0	32,865.9	28,420.7	527.8	323.1	1,513.1	656.5	1,513.1	656.5
Arkansas	0.0	0.0	13.0	13.0	0.0	0.0	1,266.7	1,266.2	312.4	312.4	0.0	0.0	1,592.1	1,591.6	5.8	4.3	18.8	17.3	18.8	17.3
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	490.1	495.1	0.0	0.0	682.1	687.1	126.4	114.4	126.4	114.4	126.4	114.4
Oklahoma	6,644.1	5,451.2	2.5	2.5	0.0	0.0	861.6	859.6	77.6	76.2	0.0	0.0	7,585.8	6,389.5	13.8	2.9	16.3	5.4	16.3	5.4
Texas	20,887.6	18,276.6	969.8	317.9	0.0	0.0	670.0	668.7	478.5	489.3	0.0	0.0	23,005.9	19,752.5	381.9	201.4	1,351.7	519.3	1,351.7	519.3
Mountain	8,404.5	7,901.4	5,201.7	2,880.2	473.9	473.9	10,562.8	10,561.7	174.5	186.2	544.3	544.8	25,361.7	22,548.2	1,650.5	1,499.3	6,852.2	4,379.5	7,326.1	4,853.4
Arizona	267.3	267.3	1,679.7	1,243.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,994.0	4,557.4	910.3	843.6	2,590.0	2,086.7	2,885.4	2,382.1
Colorado	3,026.1	2,961.8	417.5	206.2	0.0	0.0	687.4	677.7	28.7	27.4	0.0	0.0	4,159.7	3,873.1	311.5	272.7	729.0	478.9	729.0	478.9
Idaho	970.5	962.7	240.0	0.0	0.0	0.0	2,708.9	2,707.7	83.9	95.7	10.0	10.0	4,013.3	3,776.1	9.4	5.9	249.4	5.9	249.4	5.9
Montana	678.5	653.5	8.0	0.0	0.0	0.0	2,747.8	2,757.6	3.0	3.0	0.0	0.0	3,437.3	3,414.1	9.2	6.9	17.2	6.9	17.2	6.9
Nevada	150.0	150.0	1,495.0	949.1	178.5	178.5	1,051.4	1,051.4	9.8	9.6	459.7	460.2	3,344.4	2,798.8	181.6	204.0	1,676.6	1,153.1	1,855.1	1,331.6
New Mexico	1,436.6	1,112.3	504.4	315.4	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,031.1	1,517.8	66.6	84.5	571.0	399.9	571.0	399.9
Utah	388.2	386.5	857.1	166.4	0.0	0.0	256.4	256.4	12.8	14.2	73.0	73.0	1,587.5	896.5	159.2	79.8	1,016.3	246.2	1,016.3	246.2
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	2.7	2.0	2.7	2.0	2.7	2.0
Pacific Contiguous	11,966.0	11,957.3	8,931.8	6,490.7	1,284.0	1,284.0	40,023.0	39,954.8	2,048.7	2,074.2	1,869.3	1,953.7	66,122.8	63,714.7	6,089.9	4,790.9	15,021.7	11,281.6	16,305.7	12,565.6
California	5,682.7	5,726.8	8,831.4	6,469.0	1,284.0	1,284.0	10,183.6	10,186.7	1,328.2	1,353.6	1,849.8	1,934.2	29,159.7	26,954.3	5,877.8	4,643.1	14,709.2	11,112.1	15,993.2	12,396.1
Oregon	3,210.2	3,157.4	99.9	21.2	0.0	0.0	8,525.2	8,525.4	309.8	317.6	19.5	19.5	12,164.6	12,041.1	126.7	80.8	226.6	102.0	226.6	102.0
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.2	21,242.7	410.7	403.0	0.0	0.0	24,798.5	24,719.3	85.4	67.1	85.9	67.6	85.9	67.6
Pacific Noncontiguous	266.2	266.2	98.3	44.2	0.0	0.0	496.1	466.1	224.3	260.4	43.0	43.0	1,127.9	1,079.9	562.4	414.2	660.7	458.4	660.7	458.4
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.2	441.1	7.0	7.0	0.0	0.0	537.8	508.7	1.7	0.0	1.7	0.0	1.7	0.0
Hawaii	205.6	205.6	98.3	44.2	0.0	0.0	25.9	25.0	217.3	253.4	43.0	43.0	590.1	571.2	560.8	414.2	659.1	458.4	659.1	458.4
U.S. Total	83,411.1	74,287.1	21,991.3	13,420.2	1,757.9	1,757.9	79,981.4	79,905.3	14,183.7	14,132.3	2,456.6	2,541.5	203,782.0	186,044.3	14,690.5	11,568.8	36,681.8	24,989.0	38,439.7	26,746.9

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, June 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	
	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016	June 2017	June 2016
New England	12,065.4	11,893.0	1,086.2	1,115.5	1,051.8	641.5	917.3	1,955.3	0.0	0.0	6,159.5	7,117.2	0.0	0.0	21,280.2	22,722.5
Connecticut	2,581.4	2,547.5	467.3	479.3	424.7	416.6	383.4	383.4	0.0	0.0	2,483.0	2,480.3	0.0	0.0	6,339.8	6,307.1
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	5,225.8	5,098.6	318.0	335.3	200.0	198.0	0.0	1,038.0	0.0	0.0	2,583.4	3,141.1	0.0	0.0	8,327.2	9,811.0
New Hampshire	1,231.0	1,235.2	3.8	3.8	400.2	0.0	533.9	533.9	0.0	0.0	97.1	498.0	0.0	0.0	2,266.0	2,270.9
Rhode Island	1,777.2	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,806.8	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	99.7	0.0	0.0	97.9	99.7
Middle Atlantic	26,323.7	25,112.5	7,701.2	7,599.7	14,742.6	13,537.8	13,879.7	16,308.0	78.6	78.6	5,313.2	5,383.2	125.8	123.8	68,164.8	68,143.6
New Jersey	8,120.2	8,104.3	2,842.9	2,817.1	493.2	1,113.2	613.0	1,245.0	11.6	11.6	222.2	273.7	23.4	23.4	12,326.5	13,588.3
New York	8,124.9	8,095.7	3,178.8	3,105.2	9,633.3	9,522.0	1,642.4	1,749.6	0.0	0.0	3,480.1	3,484.2	0.0	0.0	26,059.5	25,956.7
Pennsylvania	10,078.6	8,912.5	1,679.5	1,677.4	4,616.1	2,902.6	11,624.3	13,313.4	67.0	67.0	1,610.9	1,625.3	102.4	100.4	29,778.8	28,598.6
East North Central	17,210.6	17,036.6	26,309.0	25,802.6	3,886.3	3,904.6	61,584.9	62,768.3	317.6	317.6	2,665.6	2,729.8	1,165.9	1,143.1	113,139.9	113,702.6
Illinois	3,566.3	3,543.0	10,302.2	10,169.1	277.4	281.4	14,029.6	14,644.6	0.0	0.0	685.0	685.7	114.5	117.7	28,975.0	29,441.5
Indiana	2,406.0	2,480.2	3,225.2	3,127.6	725.9	706.1	15,776.8	16,111.4	70.0	70.0	237.8	270.3	614.3	588.3	23,056.0	23,353.9
Michigan	4,421.6	4,296.5	3,969.0	3,716.1	2,134.7	2,465.8	9,477.7	9,451.0	47.2	47.2	498.4	530.5	250.0	250.0	20,798.6	20,757.1
Ohio	4,074.8	4,076.0	5,431.7	5,427.7	150.8	131.4	15,184.1	15,189.9	142.0	142.0	640.0	645.9	187.1	187.1	25,810.5	25,800.0
Wisconsin	2,741.9	2,640.9	3,380.9	3,362.1	597.5	319.9	7,116.7	7,371.4	58.4	58.4	604.4	597.4	0.0	0.0	14,499.8	14,350.1
West North Central	6,641.9	6,034.9	11,584.3	11,380.8	4,204.2	3,773.6	34,600.5	35,256.8	32.0	32.0	3,908.9	4,096.4	8.4	8.4	60,980.2	60,582.9
Iowa	1,774.7	1,125.8	1,300.5	1,105.6	510.1	535.4	5,541.1	5,719.1	32.0	32.0	846.5	1,014.6	0.0	0.0	10,004.9	9,532.5
Kansas	266.0	266.0	2,172.0	2,171.8	2,105.6	2,054.5	4,698.2	4,687.2	0.0	0.0	540.3	537.3	0.0	0.0	9,782.1	9,716.8
Minnesota	2,172.0	2,173.2	2,437.9	2,534.1	375.1	325.8	4,308.5	4,300.1	0.0	0.0	794.1	799.4	0.0	0.0	10,087.6	10,132.6
Missouri	1,796.6	1,837.3	3,420.5	3,395.2	501.0	349.9	11,726.1	11,932.0	0.0	0.0	1,134.2	1,144.7	0.0	0.0	18,578.4	18,659.1
Nebraska	342.6	342.6	1,150.8	1,151.5	592.1	499.3	3,817.3	3,929.0	0.0	0.0	312.7	313.7	0.0	0.0	6,215.5	6,236.1
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,624.6	4,615.5
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	475.0	0.0	0.0	219.8	222.0	0.0	0.0	1,687.1	1,690.3
South Atlantic	52,658.3	51,253.3	33,142.9	31,109.1	6,987.9	7,071.6	57,308.7	58,227.6	83.8	83.8	10,462.2	11,844.4	135.0	135.0	160,778.8	159,724.8
Delaware	1,512.0	1,512.0	315.2	311.0	843.2	877.4	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	3,359.5
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,444.7	27,505.6	9,291.5	7,480.4	2,469.3	3,027.7	9,984.0	9,984.0	0.0	0.0	4,974.0	5,844.9	0.0	0.0	54,163.5	53,842.6
Georgia	7,957.7	7,953.2	7,823.8	7,857.0	796.4	789.4	9,360.5	9,508.5	83.8	83.8	946.6	999.0	0.0	0.0	26,968.8	27,190.9
Maryland	976.0	250.0	1,966.2	1,581.0	1,414.2	1,415.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,287.3	9,556.7
North Carolina	4,724.8	4,766.0	5,957.7	6,049.7	0.0	0.0	10,536.8	10,802.8	0.0	0.0	385.8	402.8	0.0	0.0	21,605.1	22,021.3
South Carolina	2,409.0	2,409.0	2,813.9	2,855.6	296.0	296.0	5,547.0	5,547.0	0.0	0.0	463.4	525.4	0.0	0.0	11,529.3	11,633.0
Virginia	7,634.1	6,857.5	3,894.3	3,894.1	1,045.8	583.3	3,800.4	4,264.3	0.0	0.0	2,348.4	2,349.3	0.0	0.0	18,723.0	17,948.5
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	82.0	12,958.0	12,999.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	20,198.2	19,040.8	13,002.4	13,003.3	5,362.8	4,147.0	26,868.5	29,432.4	0.0	0.0	207.0	217.0	19.8	99.8	65,658.7	65,940.3
Alabama	9,441.4	9,397.8	2,532.2	2,530.6	1,908.3	636.3	6,236.4	7,507.4	0.0	0.0	42.6	42.6	19.8	99.8	20,180.7	20,214.5
Kentucky	1,763.3	663.3	4,976.6	4,976.6	260.0	260.0	11,797.8	13,027.7	0.0	0.0	76.9	76.9	0.0	0.0	18,874.6	19,004.5
Mississippi	7,590.5	7,576.7	1,718.9	1,718.9	3,128.3	3,247.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,302.0	14,407.4
Tennessee	1,403.0	1,403.0	3,774.7	3,777.2	66.2	3.2	7,014.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,301.4	12,313.9
West South Central	60,288.1	59,066.1	13,343.6	13,264.9	32,108.6	34,177.2	36,423.7	36,432.5	955.7	959.3	181.3	181.3	655.3	659.8	143,956.3	144,741.1
Arkansas	4,620.5	4,602.9	702.8	702.8	813.7	816.3	5,116.0	5,122.4	0.0	0.0	12.2	12.2	0.0	0.0	11,265.2	11,256.6
Louisiana	7,552.8	7,616.4	2,372.3	2,358.1	6,952.7	8,332.4	2,852.9	2,855.1	891.9	895.5	45.5	45.5	407.4	407.4	21,075.5	22,510.4
Oklahoma	6,783.7	6,720.2	1,285.9	1,292.2	5,164.9	5,209.1	4,865.8	4,866.5	0.0	0.0	74.4	74.4	0.0	0.0	18,174.7	18,162.4
Texas	41,331.1	40,126.6	8,982.6	8,911.8	19,177.3	19,819.4	23,589.0	23,588.5	63.8	63.8	49.2	49.2	247.9	252.4	93,440.9	92,811.7
Mountain	22,489.9	22,487.3	8,859.0	8,926.6	3,332.2	3,196.9	28,378.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,594.1	64,087.8
Arizona	9,891.6	9,866.7	2,367.6	2,367.6	1,303.6	1,147.6	5,754.0	5,910.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,382.4
Colorado	3,240.5	3,240.5	2,572.3	2,535.3	329.0	329.0	5,038.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,349.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,147.1	1,157.5
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	5,418.6	1,385.6	1,385.6	444.6	451.1	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,991.6	8,258.7
New Mexico	1,460.7	1,469.0	976.0	1,080.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,824.0	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	316.2	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,410.1	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,786.5	6,786.5
Pacific Contiguous	25,979.3	25,171.4	11,759.6	11,399.1	8,875.6	11,890.1	1,982.0	2,015.0	17.0	17.0	422.3	422.3	227.3	209.3	49,263.1	51,124.2
California	19,954.8	19,571.3	10,906.4	10,503.9	8,619.6	11,638.1	57.0	90.0	17.0	17.0	407.1	407.1	227.3	209.3	40,189.2	42,436.7
Oregon	3,374.9	2,929.6	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	3,872.8
Washington	2,649.6	2,670.5	719.4	761.4	31.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,755.8	4,814.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,595.9	2,568.7	6.4	9.6	4,216.6	4,159.4
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	725.1	701.1	0.0	0.0	2,159.4	2,102.2
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,867.6	6.4	9.6	2,057.2	2,057.2
U.S. Total	244,334.6	237,513.9	127,414.5	124,255.9	80,727.0	82,515.3	262,277.7	271,672.3	1,536.7	1,540.3	32,286.7	34,931.1	2,455.5	2,500.4	751,032.7	754,929.2

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

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 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	60419		IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419		IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419		IPP	WakeSun, LLC	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV
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	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	Oro Loma	CA	59915	ORCA	20.0	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	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	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	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	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	57313	SolarCity Corporation	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	1	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	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	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	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	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
2017	2	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	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	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	46.5	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

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	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	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	57313	SolarCity Corporation	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	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	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	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	60457	FLS Energy, Inc	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	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	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
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

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	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	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	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
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	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	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	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	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	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	Town of Lexington Solar	MA	60816	PV1	1.6	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	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	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	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
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

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	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	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	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

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	7	60862	ACE-Stanton, LLC	IPP	ACE-Stanton PV	FL	61246	ASLF1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2017	7	60634	AEM Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	29.9
2017	7	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	7	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	7	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	7	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	7	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	7	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.4
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.5
2017	7	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	50.0	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	54.5
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	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	7	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	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	25.3
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	25.3
2017	7	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	7	60966	Barnwell Solar, LLC	IPP	Barnwell Solar	SC	61327	PGRB1	5.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.4
2017	7	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	60409	Blue Summit Storage, LLC	IPP	Blue Summit Storage, LLC	TX	60690	WBSS	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2017	7	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC	(TS) Construction complete, but not yet in commercial operation	3.2
2017	7	60865	CD Global Solar Holdings, LLC	IPP	Boaz Farm Solar	NC	61157	BOAZF	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60865	CD Global Solar Holdings, LLC	IPP	ZV Solar 2, LLC	NC	61257	ZV204	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	7	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.7
2017	7	60965	Cameron Solar II, LLC	IPP	Cameron Solar II	SC	61326	PGRB2	4.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.1
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	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	7	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	253.0
2017	7	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	7	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.4
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	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	7	60926	Hatfield Renewables, LLC	IPP	Hatfield Renewables	MA	61299	02599	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2017	7	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	7	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	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	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400A	CA	61348	W5691	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400B	CA	61349	W5694	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	7	58822	MC Power Companies Inc	IPP	Chillicothe Solar Farm	MO	61223	CHSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
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	(TS) Construction complete, but not yet in commercial operation	13.8
2017	7	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	7	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	7	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	7	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	7	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	7	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	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	328.0
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	328.0
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	EDG13	1.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	404.0
2017	7	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4
2017	7	60962	Saluda Solar II, LLC	IPP	Saluda Solar II	SC	61323	PGRB5	3.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.4
2017	7	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	7	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	7	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	7	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	7	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	60163	Soltage LLC	IPP	231 Dixon 74 Solar I, LLC	NC	61195	DIXON	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	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	7	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	7	60947	Tesla Inc.	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	7	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.8
2017	7	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	7	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	7	60947	Tesla Inc.	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	7	60924	Upton Solar, LLC	IPP	Upton Solar	MA	61297	02567	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	19724	Vanderbilt University	Commercial	Vanderbilt University Power Plant	TN	52048	GT1B	5.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	6.3
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	60863	ACE-Stanton A, LLC	IPP	ACE-Stanton A PV	FL	61247	ASA1	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2017	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
2017	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
2017	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
2017	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
2017	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3

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)
2017	8	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	60730	Bakersfield Industrial PV 1, LLC	IPP	Bakersfield Industrial PV 1	CA	61118	BIND1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	8	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	8	60865	CD Global Solar Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Bizzell Church Solar 2	NC	61158	BIZZE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	8	60865	CD Global Solar Holdings, LLC	IPP	St. Pauls Solar 2	NC	61156	STPAU	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Conejos 1 Community Solar Array	CO	60723	CONEJ	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.7
2017	8	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	59693	Cline Solar Farm LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	8	60795	Columbus Solar Project	IPP	Columbus Solar Project	NM	61165	88029	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	60496	Enerparc Inc.	IPP	Black Eagle Solar, LLC	MT	61336	BESMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60496	Enerparc Inc.	IPP	Great Divide Solar, LLC	MT	61335	GDSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60496	Enerparc Inc.	IPP	Magpie Solar, LLC	MT	61337	MSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60921	Farley Road Solar, LLC	IPP	Farley Road Solar	MA	61294	02419	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2017	8	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	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	8	60917	Golden Hills Solar, LLC	IPP	Golden Hills Solar	MA	61315	02196	4.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.7
2017	8	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	8	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	8	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	8	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	8	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2017	8	60727	Manteca Land PV, LLC	IPP	Manteca Land PV	CA	61115	MANT1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	8	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2017	8	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	8	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	8	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	8	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	8	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	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	8	60925	Pleasantdale Road Solar, LLC	IPP	Pleasantdale Road Solar	MA	61298	02112	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	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
2017	8	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	149.3
2017	8	60916	SR Kersey, LLC	IPP	SR Kersey	CO	61314	KERS	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	8	60919	Sampson Road Solar, LLC	IPP	Sampson Road Solar	MA	61308	02696	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2017	8	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	8	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	8	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	8	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	8	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	8	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	8	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	8	60950	USPS LA Solar FiT A & B	Electric Utility	USPS PV	CA	61250	USPS1	10.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.7
2017	8	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	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	9	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	1	0.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.8
2017	9	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	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	9	15399	Avangrid Renewables LLC	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.0
2017	9	15399	Avangrid Renewables LLC	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	143.0
2017	9	60729	Bakersfield PV 1, LLC	IPP	Bakersfield PV 1	CA	61117	BAKE1	5.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.3
2017	9	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	9	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.6
2017	9	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	9	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	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	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	9	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	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2017	9	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
2017	9	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2017	9	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	9	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	9	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	9	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	9	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	9	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	9	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	9	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	9	57389	IKEA Property Inc	IPP	IKEA Grand Prairie Rooftop PV System	TX	61309	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.8
2017	9	60985	Long Henry Solar, LLC	IPP	Long Henry Solar	NC	61347	GEN1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	9	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	9	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	9	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	493.0
2017	9	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	9	60649	Redbrook Solar 1, LLC	IPP	Redbrook Solar 1	MA	61007	REDBR	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	9	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.5
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
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	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(OT) Other	0.9
2017	10	6455	Duke Energy Florida, LLC	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.8
2017	10	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	60964	Hampton Solar I, LLC	IPP	Hampton Solar I	SC	61325	PGRB3	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.8
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	71.0
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	60963	Odyssey Solar, LLC	IPP	Odyssey Solar	SC	61324	PGRB4	8.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	8.2
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	2.0
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	2.0
2017	10	60859	Redbed Plains Wind Farm LLC	IPP	Redbed Plains Wind Farm	OK	61221	WT1	99.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	99.1
2017	10	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	60520	SoCore Energy LLC	IPP	VEC Magee Hill Solar	VT	60954	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
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	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	10	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	10	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	10	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	10	57054	Suzlon Project VIII LLC	IPP	Suzlon Project VIII LLC	TX	57741	S128	2.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	2.6
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	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	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	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2017	11	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.8
2017	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	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	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

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	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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	8.5
2017	11	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	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	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	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	58822	MC Power Companies Inc	IPP	BPU Solar Farm	KS	61313	BPU1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	58822	MC Power Companies Inc	IPP	Higginsville Solar Farm	MO	61316	HSF1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
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	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	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	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
2017	11	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
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	(T) Regulatory approvals received. Not under construction	20.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(T) Regulatory approvals received. Not under construction	0.4
2017	12	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
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	127.0
2017	12	60376	Auten Road Farm, LLC	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	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	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	75.0
2017	12	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
2017	12	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
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	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	(U) Under construction, less than or equal to 50 percent complete	25.0
2017	12	60078	Bladen Solar Farm, LLC	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	60944	Bluff Point Wind, LLC	IPP	Bluff Point Wind Facility	IN	61303	BLUFF	119.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	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	12	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
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	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.3
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	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
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS1	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS3	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	65.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Crittenden Solar Facility	KY	61310	PV1	2.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.7
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 1 Solar Facility	KY	61311	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 2 Solar Facility	KY	61312	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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
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	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2017	12	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
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	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
2017	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
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	12	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
2017	12	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	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
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
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	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

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	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
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	(U) Under construction, less than or equal to 50 percent complete	8.1
2017	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
2017	12	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2017	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
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	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
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	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	168.0
2017	12	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
2017	12	60976	Next Generation Solar Farm, LLC	IPP	Next Generation Solar Farm	VT	61340	NGSF1	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
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 Kramer	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.3
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 Marmas	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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 CSG of Waseca	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
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	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	58764	Origis Energy USA, Inc	IPP	OR Solar 3, LLC	OR	61201	ORSR3	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	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
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	98.0
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	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
2017	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
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	12	60978	SP Solar 5, LLC	IPP	Mill Creek Solar (OR)	OR	61338	PGRC1	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2017	12	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
2017	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
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	60178	Shoe Creek Solar, LLC	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	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
2017	12	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
2017	12	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	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
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	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
2017	12	60595	Spartan PV 1, LLC	IPP	Spartan PV 1	MI	60945	PV1	10.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(L) Regulatory approvals pending. Not under construction	74.8
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.5
2017	12	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
2017	12	60947	Tesla Inc.	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.3
2017	12	60947	Tesla Inc.	IPP	Sacramento Regional County Sanitation PV	CA	61209	PV1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
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	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
2017	12	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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
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	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
2017	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
2017	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	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2018	1	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
2018	1	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
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(P) Planned for installation, but regulatory approvals not initiated	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	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	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0

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	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
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	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	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	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	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	2	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	2	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	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	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	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	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	3	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	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	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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
2018	3	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	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	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	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	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	60509	Thigpen Farms Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	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	3	60817	Winton Solar 2 LLC	IPP	Winton Solar 2	NC	61188	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
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	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
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	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	4	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	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	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
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	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	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

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	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	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
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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	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
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	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	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	6	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2018	6	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	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	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	6	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	6	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	6	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	6	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	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	(P) Planned for installation, but regulatory approvals not initiated	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	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	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	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	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	6	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	6	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	6	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	6	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	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	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	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	6	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	6	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	6	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	6	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	6	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	6	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	7	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	7	59745	First Solar Asset Management	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
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	(P) Planned for installation, but regulatory approvals not initiated	150.0
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	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	59056	Tri Global Energy, 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	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	7	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	8	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	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
2018	8	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
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	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	(P) Planned for installation, but regulatory approvals not initiated	99.0
2018	9	60499	Eastway Solar, LLC	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	9	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	60498	Osceola Solar, LLC	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	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	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	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.2
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	233.7
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	60420		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	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	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	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	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	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	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	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(OT) Other	30.0
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
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	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	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	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

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	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	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	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
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	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	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	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	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
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	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	56069	SunCoke Energy, Inc.	Industrial	SunCoke Energy South Shore Facility	KY	60373	SSST6	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
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	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	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
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	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

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	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	60072	Willard Solar, LLC	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	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	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(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	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	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	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	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
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0		WDS	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	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	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
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

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	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	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	59365	Capital Power Corporation	IPP	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
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	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	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	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	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	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

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	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	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	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	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2020	6	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	6	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	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	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	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	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	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	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	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	6	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	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	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
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	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2A	0.4	Petroleum Liquids	DFO	IC
2017	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	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	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	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2017	9	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	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	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	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	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	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	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	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
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	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	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
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	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

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	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	499.0	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	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	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	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	1	908.0	Nuclear	NUC	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	2	911.0	Nuclear	NUC	ST
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	52.8	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	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	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	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	Nuclear	NUC	ST
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	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

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	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
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	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	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
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	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	BIT	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

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	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	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	SUB	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	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	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	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	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	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	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	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	SUB	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
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY
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-June 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	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	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	52.7%	56.0%	8.3%	12.2%	NA	10.8%	1.3%	NA
Year 2015								
January	61.3%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	64.9%	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	49.8%	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	43.9%	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	55.6%	56.8%	4.5%	6.3%	NA	9.4%	0.5%	NA
February	48.4%	54.1%	4.5%	6.4%	NA	9.9%	0.5%	NA
March	35.6%	50.8%	7.2%	9.9%	NA	8.3%	1.3%	NA
April	37.3%	48.1%	8.6%	12.1%	NA	9.1%	1.0%	NA
May	41.1%	53.2%	7.6%	12.5%	NA	10.6%	1.3%	NA
June	60.8%	64.7%	10.0%	17.5%	NA	12.5%	1.5%	NA
July	69.1%	68.8%	14.3%	22.9%	NA	16.1%	2.5%	NA
August	68.6%	71.3%	14.3%	21.2%	NA	14.3%	3.1%	NA
Sept	59.7%	61.4%	9.4%	14.5%	NA	12.2%	1.4%	NA
October	50.2%	48.1%	7.6%	11.4%	NA	8.2%	1.1%	NA
November	45.5%	47.0%	6.6%	6.0%	NA	9.3%	0.7%	NA
December	60.2%	47.8%	4.7%	5.4%	NA	9.4%	0.6%	NA
Year 2017								
January	58.6%	50.6%	5.8%	4.1%	NA	10.0%	1.4%	NA
February	48.7%	48.6%	6.1%	3.6%	NA	8.9%	1.8%	NA
March	45.4%	48.1%	8.5%	8.2%	NA	12.1%	2.1%	NA
April	43.4%	45.7%	7.2%	8.9%	NA	9.0%	1.3%	NA
May	48.3%	49.5%	8.6%	9.7%	NA	15.0%	2.6%	NA
June	58.5%	60.2%	9.7%	16.1%	NA	15.3%	1.8%	NA

Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available

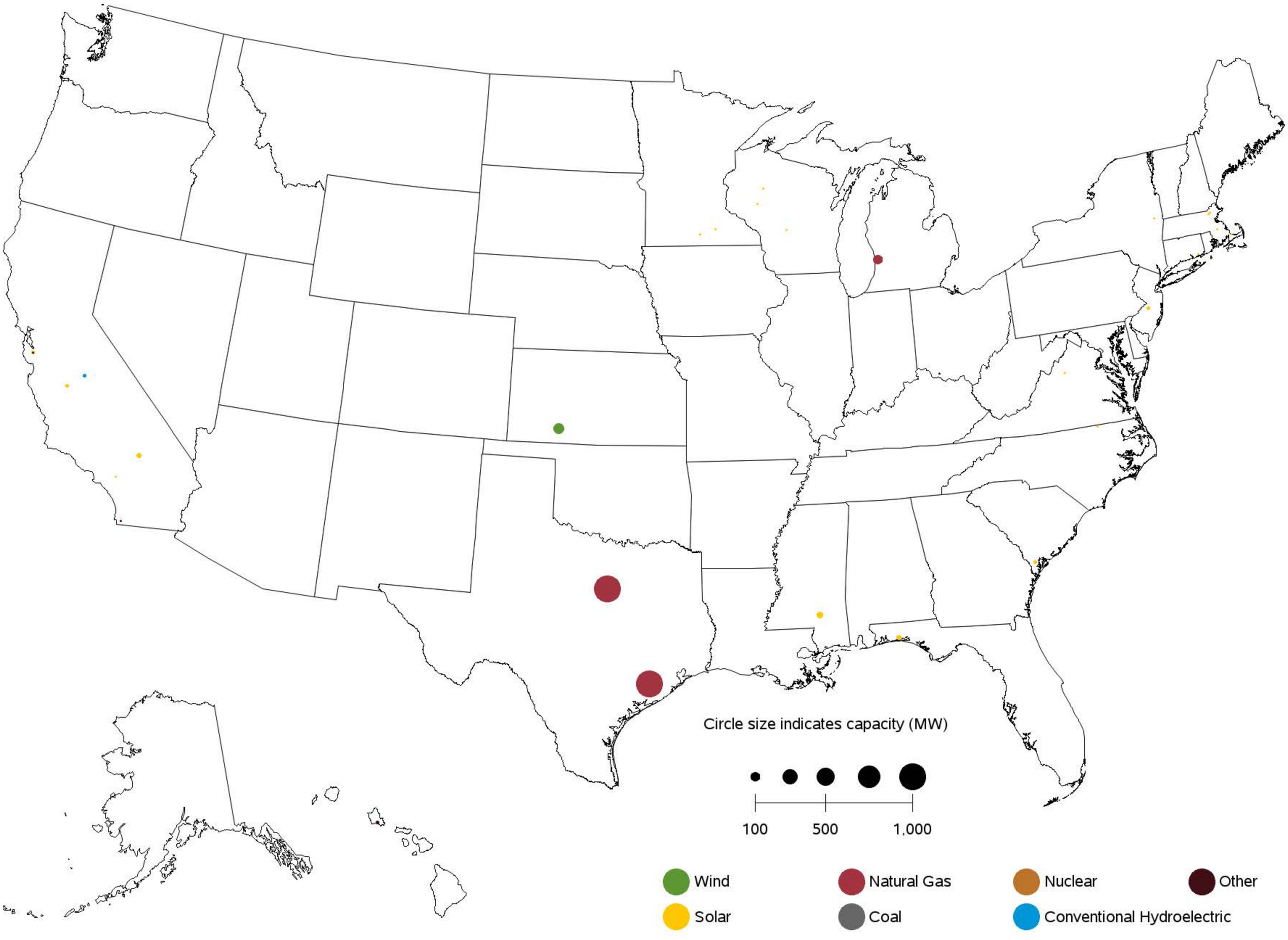
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-June 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	92.5%	38.0%	34.7%	27.2%	22.2%	70.7%	46.7%	74.2%
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	98.8%	42.6%	34.2%	17.9%	6.8%	70.3%	51.2%	73.6%
February	95.6%	43.2%	39.9%	26.7%	19.5%	66.0%	54.0%	73.5%
March	90.1%	45.2%	40.4%	28.0%	19.6%	63.5%	47.8%	72.8%
April	87.8%	44.2%	39.4%	30.8%	20.9%	68.5%	36.4%	68.9%
May	90.7%	42.6%	34.3%	35.0%	28.9%	75.2%	39.0%	74.1%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.8%	47.2%	71.6%
July	94.8%	35.9%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%
Sept	91.1%	28.4%	30.6%	30.1%	30.2%	70.7%	47.4%	76.1%
October	81.9%	29.2%	36.7%	25.3%	19.1%	66.4%	38.0%	75.1%
November	91.1%	33.3%	35.4%	21.3%	14.4%	71.5%	41.6%	78.2%
December	97.0%	38.2%	38.8%	15.5%	7.0%	76.3%	50.2%	80.7%
Year 2017								
January	99.0%	48.4%	36.6%	16.9%	7.3%	74.2%	42.4%	79.8%
February	96.0%	47.7%	42.5%	20.0%	11.7%	70.6%	51.3%	78.1%
March	88.1%	54.1%	44.7%	27.9%	22.9%	67.9%	47.8%	75.0%
April	79.2%	53.5%	44.8%	31.0%	24.9%	68.0%	48.1%	78.6%
May	82.9%	56.6%	38.8%	34.1%	31.0%	70.6%	43.4%	74.0%
June	93.7%	56.9%	34.5%	35.7%	37.9%	72.6%	45.4%	75.2%

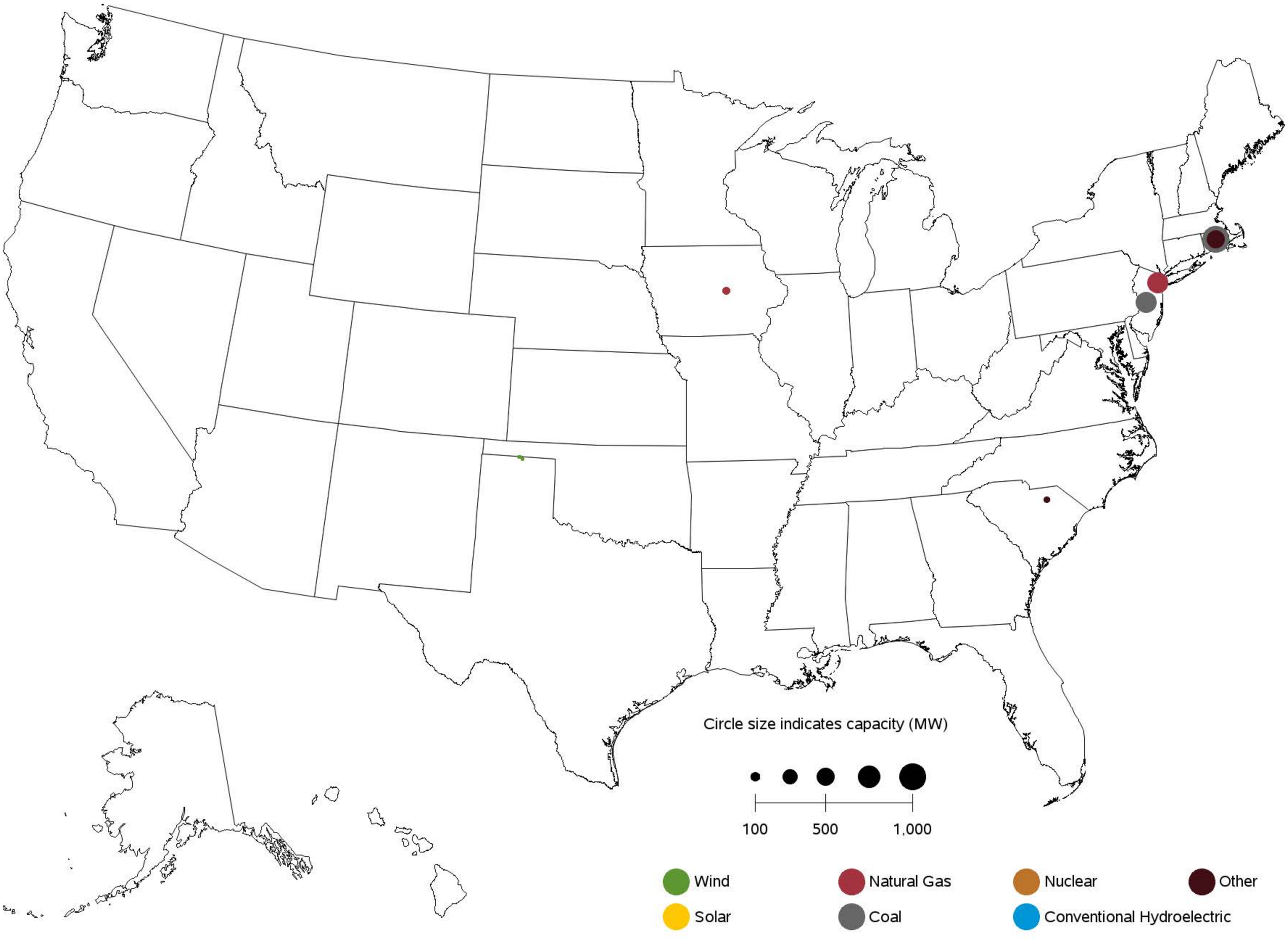
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations 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 June 2017



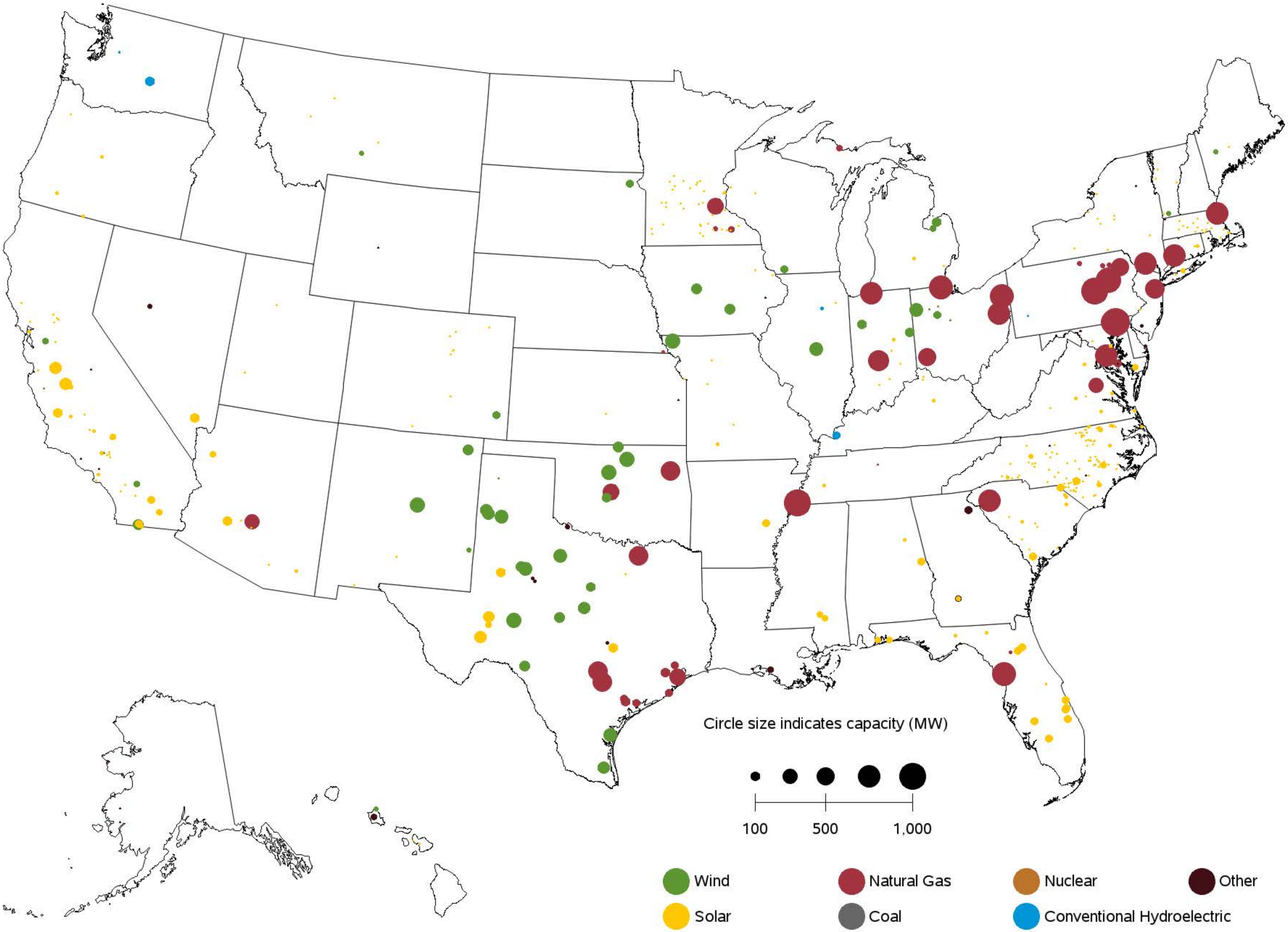
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



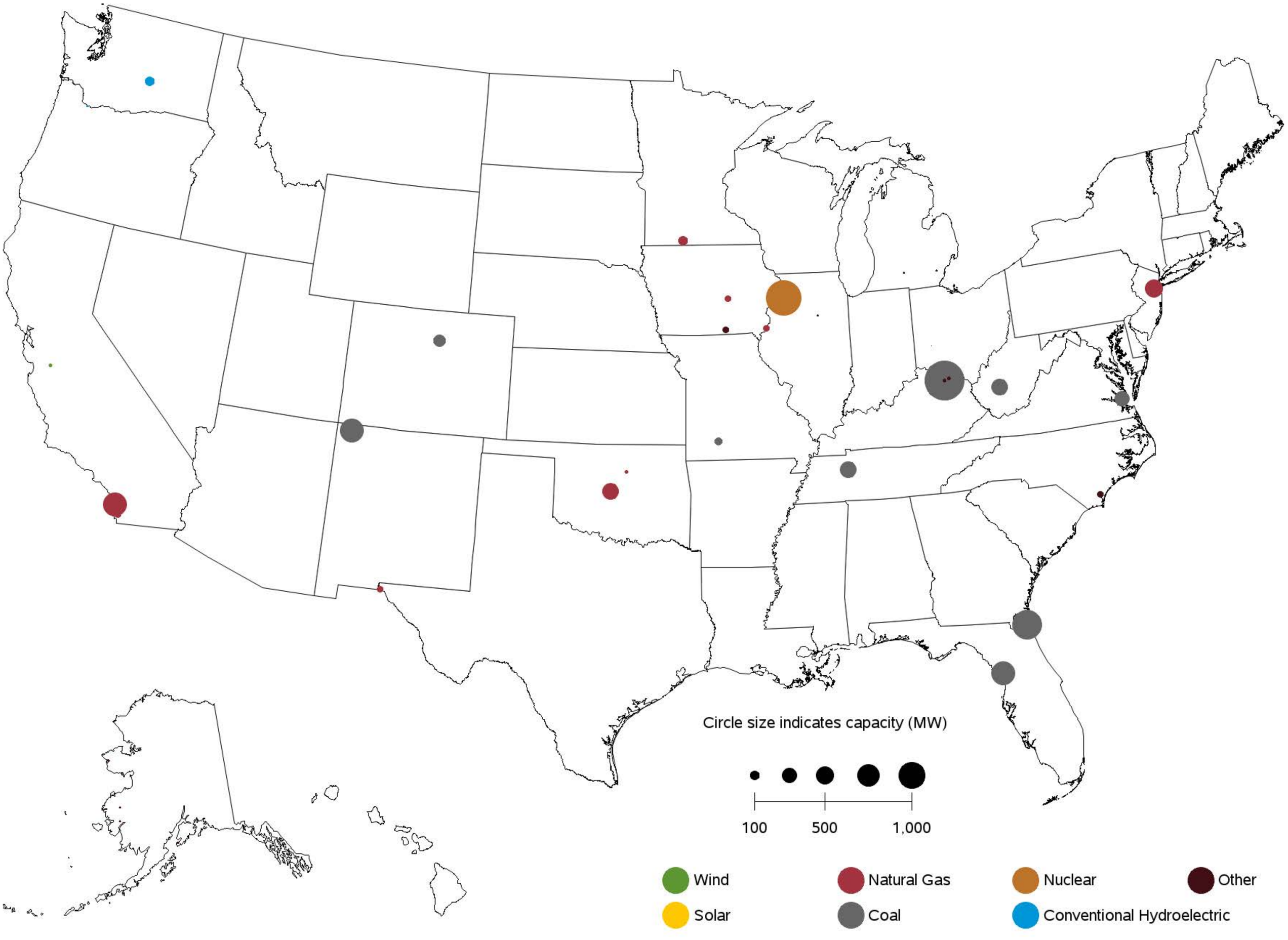
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from July 2017 to June 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 July 2017 to June 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 A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**8**	**16**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	29	0	3	0	0	22
Maine	85	42	0	34	0	0	8
Massachusetts	0	20	0	5	0	0	15
New Hampshire	0	12	0	0	0	0	12
Rhode Island	0	265	0	17	0	0	0
Vermont	0	98	0	0	0	0	12
Middle Atlantic	**2**	**11**	**37**	**2**	**30**	**0**	**2**
New Jersey	0	39	0	5	0	0	216
New York	0	15	0	3	0	0	1
Pennsylvania	2	14	51	2	42	0	8
East North Central	**0**	**5**	**10**	**3**	**11**	**0**	**13**
Illinois	0	6	0	7	0	0	46
Indiana	0	2	0	4	16	0	21
Michigan	2	14	0	6	0	0	26
Ohio	1	3	26	2	30	0	19
Wisconsin	0	54	0	12	0	0	20
West North Central	**1**	**17**	**0**	**17**	**0**	**0**	**9**
Iowa	2	28	0	31	0	0	34
Kansas	3	7	0	19	0	0	0
Minnesota	4	35	0	27	0	0	36
Missouri	0	13	0	24	0	0	10
Nebraska	3	152	0	60	0	0	25
North Dakota	0	7	0	81	0	0	21
South Dakota	0	149	0	63	0	0	14
South Atlantic	**0**	**4**	**5**	**1**	**32**	**0**	**4**
Delaware	0	69	0	7	36	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	27
Georgia	1	29	47	3	0	0	7
Maryland	0	13	0	7	0	0	1
North Carolina	0	10	0	2	0	0	6
South Carolina	0	20	0	4	0	0	9
Virginia	3	5	0	2	0	0	12
West Virginia	1	0	0	14	0	0	15
East South Central	**1**	**8**	**0**	**2**	**23**	**0**	**3**
Alabama	0	57	0	2	47	0	4
Kentucky	2	9	0	3	0	0	10
Mississippi	0	9	0	3	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	**0**	**9**	**0**	**1**	**3**	**0**	**5**
Arkansas	0	10	0	6	0	0	7
Louisiana	0	104	0	2	5	0	13
Oklahoma	0	6	0	3	0	0	8
Texas	0	16	21	1	4	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	137	0	2	0	0	20
Idaho	84	0	0	35	0	0	11
Montana	6	30	0	64	0	0	10
Nevada	0	0	0	0	0	0	2
New Mexico	0	34	0	2	0	0	73
Utah	0	2	0	3	0	0	34
Wyoming	2	1	0	35	0	0	31
Pacific Contiguous	**0**	**64**	**0**	**2**	**2**	**0**	**2**
California	0	27	0	1	2	0	5
Oregon	0	16,008	0	19	0	0	4
Washington	0	253	0	22	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**49**	**0**	**0**	**23**
Alaska	61	6	0	49	0	0	24
Hawaii	0	1	0	0	0	0	99
U.S. Total	**0**	**1**	**3**	**1**	**6**	**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, June 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**	**9**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	44	12	0	0	1
Maine	0	0	0	0	7	0	0	7
Massachusetts	0	0	0	10	6	0	2	3
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	69	8	0	0	16
Vermont	0	0	0	28	15	0	0	10
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	9	6	0	0	2
New York	0	0	0	20	5	0	2	1
Pennsylvania	0	0	0	29	5	0	0	1
East North Central	**0**	**0**	**0**	**12**	**3**	**0**	**3**	**1**
Illinois	0	0	0	23	4	0	0	1
Indiana	0	0	0	17	6	0	0	1
Michigan	0	0	0	25	6	0	10	1
Ohio	0	0	0	28	5	0	0	1
Wisconsin	0	0	0	62	8	0	47	3
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**5**	**1**
Iowa	0	0	0	150	4	0	0	2
Kansas	0	0	0	0	3	0	0	2
Minnesota	0	0	0	10	5	0	4	4
Missouri	0	0	0	38	8	0	0	1
Nebraska	0	0	0	61	7	0	0	3
North Dakota	0	0	0	0	4	0	56	2
South Dakota	0	0	0	241	11	0	0	9
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**0**
Delaware	0	0	0	38	32	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	8	4	0	1	1
Georgia	0	0	0	7	4	0	24	1
Maryland	0	0	0	18	9	0	0	1
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	44	6	0	0	1
Virginia	0	0	0	20	7	0	0	1
West Virginia	0	0	0	0	10	0	0	1
East South Central	**0**	**0**	**0**	**17**	**3**	**0**	**0**	**1**
Alabama	0	0	0	26	5	0	0	1
Kentucky	0	0	0	0	17	0	0	2
Mississippi	0	0	0	55	4	0	0	2
Tennessee	0	0	0	26	8	0	0	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	20	5	0	0	2
Louisiana	0	0	0	0	5	0	4	1
Oklahoma	0	0	0	0	3	0	0	1
Texas	0	0	0	5	2	0	6	1
Mountain	**0**	**7**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	0
Colorado	0	0	0	11	4	0	0	1
Idaho	0	29	0	13	7	0	0	9
Montana	0	0	0	85	11	0	0	6
Nevada	0	7	0	4	4	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	13	0	8	6	0	0	1
Wyoming	0	0	0	0	8	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	2	1
Oregon	0	19	0	24	5	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**18**	**0**	**19**	**10**	**0**	**0**	**6**
Alaska	0	0	0	0	27	0	0	18
Hawaii	0	18	0	19	11	0	0	2
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 June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**8**	**16**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	29	0	3	0	0	22
Maine	85	42	0	34	0	0	8
Massachusetts	0	20	0	5	0	0	15
New Hampshire	0	12	0	0	0	0	12
Rhode Island	0	265	0	17	0	0	0
Vermont	0	98	0	0	0	0	12
Middle Atlantic	**2**	**11**	**37**	**2**	**30**	**0**	**2**
New Jersey	0	39	0	5	0	0	216
New York	0	15	0	3	0	0	1
Pennsylvania	2	14	51	2	42	0	8
East North Central	**0**	**5**	**10**	**3**	**11**	**0**	**13**
Illinois	0	6	0	7	0	0	46
Indiana	0	2	0	4	16	0	21
Michigan	2	14	0	6	0	0	26
Ohio	1	3	26	2	30	0	19
Wisconsin	0	54	0	12	0	0	20
West North Central	**1**	**17**	**0**	**17**	**0**	**0**	**9**
Iowa	2	28	0	31	0	0	34
Kansas	3	7	0	19	0	0	0
Minnesota	4	35	0	27	0	0	36
Missouri	0	13	0	24	0	0	10
Nebraska	3	152	0	60	0	0	25
North Dakota	0	7	0	81	0	0	21
South Dakota	0	149	0	63	0	0	14
South Atlantic	**0**	**4**	**5**	**1**	**32**	**0**	**4**
Delaware	0	69	0	7	36	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	27
Georgia	1	29	47	3	0	0	7
Maryland	0	13	0	7	0	0	1
North Carolina	0	10	0	2	0	0	6
South Carolina	0	20	0	4	0	0	9
Virginia	3	5	0	2	0	0	12
West Virginia	1	0	0	14	0	0	15
East South Central	**1**	**8**	**0**	**2**	**23**	**0**	**3**
Alabama	0	57	0	2	47	0	4
Kentucky	2	9	0	3	0	0	10
Mississippi	0	9	0	3	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	**0**	**9**	**0**	**1**	**3**	**0**	**5**
Arkansas	0	10	0	6	0	0	7
Louisiana	0	104	0	2	5	0	13
Oklahoma	0	6	0	3	0	0	8
Texas	0	16	21	1	4	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	137	0	2	0	0	20
Idaho	84	0	0	35	0	0	11
Montana	6	30	0	64	0	0	10
Nevada	0	0	0	0	0	0	2
New Mexico	0	34	0	2	0	0	73
Utah	0	2	0	3	0	0	34
Wyoming	2	1	0	35	0	0	31
Pacific Contiguous	**0**	**64**	**0**	**2**	**2**	**0**	**2**
California	0	27	0	1	2	0	5
Oregon	0	16,008	0	19	0	0	4
Washington	0	253	0	22	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**49**	**0**	**0**	**23**
Alaska	61	6	0	49	0	0	24
Hawaii	0	1	0	0	0	0	99
U.S. Total	**0**	**1**	**3**	**1**	**6**	**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 June 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**	**9**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	44	12	0	0	1
Maine	0	0	0	0	7	0	0	7
Massachusetts	0	0	0	10	6	0	2	3
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	69	8	0	0	16
Vermont	0	0	0	28	15	0	0	10
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	9	6	0	0	2
New York	0	0	0	20	5	0	2	1
Pennsylvania	0	0	0	29	5	0	0	1
East North Central	**0**	**0**	**0**	**12**	**3**	**0**	**3**	**1**
Illinois	0	0	0	23	4	0	0	1
Indiana	0	0	0	17	6	0	0	1
Michigan	0	0	0	25	6	0	10	1
Ohio	0	0	0	28	5	0	0	1
Wisconsin	0	0	0	62	8	0	47	3
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**5**	**1**
Iowa	0	0	0	150	4	0	0	2
Kansas	0	0	0	0	3	0	0	2
Minnesota	0	0	0	10	5	0	4	4
Missouri	0	0	0	38	8	0	0	1
Nebraska	0	0	0	61	7	0	0	3
North Dakota	0	0	0	0	4	0	56	2
South Dakota	0	0	0	241	11	0	0	9
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**0**
Delaware	0	0	0	38	32	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	8	4	0	1	1
Georgia	0	0	0	7	4	0	24	1
Maryland	0	0	0	18	9	0	0	1
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	44	6	0	0	1
Virginia	0	0	0	20	7	0	0	1
West Virginia	0	0	0	0	10	0	0	1
East South Central	**0**	**0**	**0**	**17**	**3**	**0**	**0**	**1**
Alabama	0	0	0	26	5	0	0	1
Kentucky	0	0	0	0	17	0	0	2
Mississippi	0	0	0	55	4	0	0	2
Tennessee	0	0	0	26	8	0	0	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	20	5	0	0	2
Louisiana	0	0	0	0	5	0	4	1
Oklahoma	0	0	0	0	3	0	0	1
Texas	0	0	0	5	2	0	6	1
Mountain	**0**	**7**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	0
Colorado	0	0	0	11	4	0	0	1
Idaho	0	29	0	13	7	0	0	9
Montana	0	0	0	85	11	0	0	6
Nevada	0	7	0	4	4	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	13	0	8	6	0	0	1
Wyoming	0	0	0	0	8	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	2	1
Oregon	0	19	0	24	5	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**18**	**0**	**19**	**10**	**0**	**0**	**6**
Alaska	0	0	0	0	27	0	0	18
Hawaii	0	18	0	19	11	0	0	2
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.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**51**	**0**	**0**	**13**
Connecticut	0	30	0	0	0	0	18
Maine	0	0	0	0	0	0	0
Massachusetts	0	32	0	65	0	0	30
New Hampshire	0	6	0	0	0	0	24
Rhode Island	0	0	0	0	0	0	0
Vermont	0	105	0	0	0	0	18
Middle Atlantic	**0**	**27**	**0**	**6**	**0**	**0**	**1**
New Jersey	0	328	0	0	0	0	0
New York	0	27	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**6**	**0**	**6**	**0**	**0**	**15**
Illinois	0	31	0	52	0	0	105
Indiana	0	3	0	5	0	0	21
Michigan	2	14	0	17	0	0	27
Ohio	2	4	0	5	0	0	26
Wisconsin	0	54	0	14	0	0	22
West North Central	**1**	**17**	**0**	**19**	**0**	**0**	**9**
Iowa	2	28	0	33	0	0	35
Kansas	3	7	0	20	0	0	0
Minnesota	4	38	0	31	0	0	54
Missouri	0	13	0	31	0	0	10
Nebraska	3	152	0	60	0	0	25
North Dakota	0	7	0	84	0	0	21
South Dakota	0	149	0	63	0	0	14
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0
Florida	0	1	0	1	0	0	27
Georgia	1	9	0	3	0	0	7
Maryland	0	100	0	0	0	0	0
North Carolina	0	10	0	2	0	0	6
South Carolina	0	23	0	5	0	0	9
Virginia	4	6	0	3	0	0	12
West Virginia	0	0	0	0	0	0	29
East South Central	**1**	**3**	**0**	**2**	**0**	**0**	**3**
Alabama	0	3	0	5	0	0	4
Kentucky	2	9	0	3	0	0	10
Mississippi	0	11	0	3	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	**0**	**12**	**0**	**3**	**0**	**0**	**5**
Arkansas	0	17	0	22	0	0	7
Louisiana	0	104	0	3	0	0	0
Oklahoma	0	6	0	5	0	0	8
Texas	0	23	0	5	0	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	137	0	2	0	0	22
Idaho	0	0	0	46	0	0	11
Montana	0	1,398	0	68	0	0	10
Nevada	0	0	0	0	0	0	0
New Mexico	0	34	0	3	0	0	73
Utah	0	2	0	3	0	0	34
Wyoming	2	1	0	105	0	0	32
Pacific Contiguous	**0**	**37**	**0**	**5**	**0**	**0**	**1**
California	0	35	0	2	0	0	4
Oregon	0	16,008	0	29	0	0	4
Washington	0	393	0	29	0	0	1
Pacific Noncontiguous	**176**	**1**	**0**	**52**	**0**	**0**	**24**
Alaska	176	6	0	52	0	0	24
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**2**

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

Electric Utilities by Census Division and State, June 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**	**38**	**8**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	6
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	55	46	0	0	37
New Hampshire	0	0	0	0	0	0	0	6
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	49	13	0	0	11
Middle Atlantic	**0**	**0**	**0**	**31**	**31**	**0**	**0**	**2**
New Jersey	0	0	0	31	31	0	0	6
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**19**	**8**	**0**	**3**	**1**
Illinois	0	0	0	0	42	0	0	9
Indiana	0	0	0	31	19	0	0	1
Michigan	0	0	0	25	12	0	0	2
Ohio	0	0	0	80	66	0	0	2
Wisconsin	0	0	0	0	13	0	26	3
West North Central	**0**	**0**	**0**	**79**	**4**	**0**	**9**	**1**
Iowa	0	0	0	150	4	0	0	3
Kansas	0	0	0	0	8	0	0	3
Minnesota	0	0	0	159	9	0	0	4
Missouri	0	0	0	0	55	0	0	1
Nebraska	0	0	0	0	25	0	0	4
North Dakota	0	0	0	0	7	0	56	2
South Dakota	0	0	0	0	18	0	0	11
South Atlantic	**0**	**0**	**0**	**8**	**8**	**0**	**0**	**0**
Delaware	0	0	0	105	105	0	0	57
Florida	0	0	0	8	8	0	0	1
Georgia	0	0	0	19	19	0	0	1
Maryland	0	0	0	90	90	0	0	87
North Carolina	0	0	0	15	15	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	31	17	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**42**	**33**	**0**	**0**	**1**
Alabama	0	0	0	74	74	0	0	1
Kentucky	0	0	0	0	35	0	0	2
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**78**	**10**	**0**	**0**	**1**
Arkansas	0	0	0	241	241	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	9	0	0	2
Texas	0	0	0	139	33	0	0	2
Mountain	**0**	**18**	**0**	**10**	**7**	**0**	**0**	**1**
Arizona	0	0	0	12	12	0	0	1
Colorado	0	0	0	0	36	0	0	1
Idaho	0	0	0	0	111	0	0	11
Montana	0	0	0	0	33	0	0	10
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	22	22	0	0	1
Utah	0	18	0	0	18	0	0	1
Wyoming	0	0	0	0	12	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**13**	**4**	**0**	**0**	**1**
California	0	0	0	14	4	0	0	2
Oregon	0	0	0	110	5	0	0	4
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**9**
Alaska	0	0	0	0	46	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**5**	**3**	**0**	**3**	**0**

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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 June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**51**	**0**	**0**	**13**
Connecticut	0	30	0	0	0	0	18
Maine	0	0	0	0	0	0	0
Massachusetts	0	32	0	65	0	0	30
New Hampshire	0	6	0	0	0	0	24
Rhode Island	0	0	0	0	0	0	0
Vermont	0	105	0	0	0	0	18
Middle Atlantic	**0**	**27**	**0**	**6**	**0**	**0**	**1**
New Jersey	0	328	0	0	0	0	0
New York	0	27	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**6**	**0**	**6**	**0**	**0**	**15**
Illinois	0	31	0	52	0	0	105
Indiana	0	3	0	5	0	0	21
Michigan	2	14	0	17	0	0	27
Ohio	2	4	0	5	0	0	26
Wisconsin	0	54	0	14	0	0	22
West North Central	**1**	**17**	**0**	**19**	**0**	**0**	**9**
Iowa	2	28	0	33	0	0	35
Kansas	3	7	0	20	0	0	0
Minnesota	4	38	0	31	0	0	54
Missouri	0	13	0	31	0	0	10
Nebraska	3	152	0	60	0	0	25
North Dakota	0	7	0	84	0	0	21
South Dakota	0	149	0	63	0	0	14
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Delaware	0	0	0	0	0	0	0
Florida	0	1	0	1	0	0	27
Georgia	1	9	0	3	0	0	7
Maryland	0	100	0	0	0	0	0
North Carolina	0	10	0	2	0	0	6
South Carolina	0	23	0	5	0	0	9
Virginia	4	6	0	3	0	0	12
West Virginia	0	0	0	0	0	0	29
East South Central	**1**	**3**	**0**	**2**	**0**	**0**	**3**
Alabama	0	3	0	5	0	0	4
Kentucky	2	9	0	3	0	0	10
Mississippi	0	11	0	3	0	0	0
Tennessee	0	0	0	3	0	0	4
West South Central	**0**	**12**	**0**	**3**	**0**	**0**	**5**
Arkansas	0	17	0	22	0	0	7
Louisiana	0	104	0	3	0	0	0
Oklahoma	0	6	0	5	0	0	8
Texas	0	23	0	5	0	0	12
Mountain	**1**	**7**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	137	0	2	0	0	22
Idaho	0	0	0	46	0	0	11
Montana	0	1,398	0	68	0	0	10
Nevada	0	0	0	0	0	0	0
New Mexico	0	34	0	3	0	0	73
Utah	0	2	0	3	0	0	34
Wyoming	2	1	0	105	0	0	32
Pacific Contiguous	**0**	**37**	**0**	**5**	**0**	**0**	**1**
California	0	35	0	2	0	0	4
Oregon	0	16,008	0	29	0	0	4
Washington	0	393	0	29	0	0	1
Pacific Noncontiguous	**176**	**1**	**0**	**52**	**0**	**0**	**24**
Alaska	176	6	0	52	0	0	24
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through June 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**	**38**	**8**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	6
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	55	46	0	0	37
New Hampshire	0	0	0	0	0	0	0	6
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	49	13	0	0	11
Middle Atlantic	**0**	**0**	**0**	**31**	**31**	**0**	**0**	**2**
New Jersey	0	0	0	31	31	0	0	6
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**19**	**8**	**0**	**3**	**1**
Illinois	0	0	0	0	42	0	0	9
Indiana	0	0	0	31	19	0	0	1
Michigan	0	0	0	25	12	0	0	2
Ohio	0	0	0	80	66	0	0	2
Wisconsin	0	0	0	0	13	0	26	3
West North Central	**0**	**0**	**0**	**79**	**4**	**0**	**9**	**1**
Iowa	0	0	0	150	4	0	0	3
Kansas	0	0	0	0	8	0	0	3
Minnesota	0	0	0	159	9	0	0	4
Missouri	0	0	0	0	55	0	0	1
Nebraska	0	0	0	0	25	0	0	4
North Dakota	0	0	0	0	7	0	56	2
South Dakota	0	0	0	0	18	0	0	11
South Atlantic	**0**	**0**	**0**	**8**	**8**	**0**	**0**	**0**
Delaware	0	0	0	105	105	0	0	57
Florida	0	0	0	8	8	0	0	1
Georgia	0	0	0	19	19	0	0	1
Maryland	0	0	0	90	90	0	0	87
North Carolina	0	0	0	15	15	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	31	17	0	0	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**42**	**33**	**0**	**0**	**1**
Alabama	0	0	0	74	74	0	0	1
Kentucky	0	0	0	0	35	0	0	2
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**78**	**10**	**0**	**0**	**1**
Arkansas	0	0	0	241	241	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	9	0	0	2
Texas	0	0	0	139	33	0	0	2
Mountain	**0**	**18**	**0**	**10**	**7**	**0**	**0**	**1**
Arizona	0	0	0	12	12	0	0	1
Colorado	0	0	0	0	36	0	0	1
Idaho	0	0	0	0	111	0	0	11
Montana	0	0	0	0	33	0	0	10
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	22	22	0	0	1
Utah	0	18	0	0	18	0	0	1
Wyoming	0	0	0	0	12	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**13**	**4**	**0**	**0**	**1**
California	0	0	0	14	4	0	0	2
Oregon	0	0	0	110	5	0	0	4
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**9**
Alaska	0	0	0	0	46	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**5**	**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, June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	30	0	3	0	0	23
Maine	0	103	0	42	0	0	8
Massachusetts	0	24	0	5	0	0	17
New Hampshire	0	932	0	0	0	0	13
Rhode Island	0	265	0	17	0	0	0
Vermont	0	0	0	0	0	0	16
Middle Atlantic	**2**	**12**	**0**	**2**	**21,875**	**0**	**6**
New Jersey	0	39	0	5	0	0	216
New York	0	20	0	3	0	0	7
Pennsylvania	2	15	0	2	21,875	0	8
East North Central	**0**	**4**	**26**	**2**	**14**	**0**	**34**
Illinois	0	5	0	6	0	0	35
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	103
Ohio	0	5	26	2	37	0	29
Wisconsin	0	0	0	0	0	0	100
West North Central	**0**	**38**	**0**	**32**	**0**	**0**	**61**
Iowa	0	42	0	2,787	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	82	0	45	0	0	73
Missouri	0	0	0	44	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**11**	**0**	**3**	**0**	**0**	**4**
Delaware	0	69	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	11	0	13	0	0	0
Georgia	0	138	0	9	0	0	0
Maryland	0	13	0	8	0	0	1
North Carolina	0	25	0	10	0	0	45
South Carolina	0	0	0	7	0	0	48
Virginia	0	6	0	2	0	0	30
West Virginia	6	0	0	23	0	0	21
East South Central	**0**	**105**	**0**	**2**	**0**	**0**	**142**
Alabama	0	108	0	2	0	0	0
Kentucky	0	0	0	0	0	0	142
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**7**	**0**	**1**	**3**	**0**	**13**
Arkansas	0	0	0	2	0	0	59
Louisiana	0	0	0	8	0	0	13
Oklahoma	0	0	0	0	0	0	0
Texas	0	20	0	1	3	0	0
Mountain	**5**	**21**	**0**	**2**	**0**	**0**	**27**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	57
Idaho	0	0	0	55	0	0	35
Montana	7	26	0	98	0	0	83
Nevada	0	0	0	0	0	0	90
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**14**	**0**	**2**	**0**	**0**	**22**
California	0	0	0	1	0	0	26
Oregon	0	0	0	10	0	0	61
Washington	0	72	0	32	0	0	54
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	50	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**3**	**17**	**1**	**8**	**0**	**5**

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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, June 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**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	47	12	0	0	1
Maine	0	0	0	0	10	0	0	9
Massachusetts	0	0	0	10	7	0	2	3
New Hampshire	0	0	0	0	20	0	0	2
Rhode Island	0	0	0	69	8	0	0	16
Vermont	0	0	0	34	32	0	0	15
Middle Atlantic	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	2
New York	0	0	0	21	5	0	0	1
Pennsylvania	0	0	0	33	6	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**18**	**0**
Illinois	0	0	0	24	4	0	0	1
Indiana	0	0	0	20	6	0	0	3
Michigan	0	0	0	0	8	0	30	2
Ohio	0	0	0	30	5	0	0	1
Wisconsin	0	0	0	62	14	0	0	1
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	7	0	0	4
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	6	0	0	7
Missouri	0	0	0	42	9	0	0	19
Nebraska	0	0	0	61	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	241	12	0	0	12
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	41	32	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	21	5	0	1	9
Georgia	0	0	0	8	7	0	0	7
Maryland	0	0	0	19	10	0	0	1
North Carolina	0	0	0	5	4	0	0	4
South Carolina	0	0	0	44	29	0	0	8
Virginia	0	0	0	27	15	0	0	2
West Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**19**	**13**	**0**	**0**	**2**
Alabama	0	0	0	28	17	0	0	2
Kentucky	0	0	0	0	0	0	0	6
Mississippi	0	0	0	55	50	0	0	0
Tennessee	0	0	0	27	22	0	0	22
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	17	0	0	1
Louisiana	0	0	0	0	40	0	0	3
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**7**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	11	4	0	0	4
Idaho	0	29	0	13	8	0	0	13
Montana	0	0	0	85	12	0	0	6
Nevada	0	7	0	4	4	0	0	3
New Mexico	0	0	0	11	5	0	0	3
Utah	0	18	0	8	6	0	0	5
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	19	0	24	6	0	0	5
Washington	0	0	0	0	9	0	0	13
Pacific Noncontiguous	**0**	**18**	**0**	**24**	**14**	**0**	**0**	**4**
Alaska	0	0	0	0	64	0	0	40
Hawaii	0	18	0	24	14	0	0	3
U.S. Total	**0**	**4**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	30	0	3	0	0	23
Maine	0	103	0	42	0	0	8
Massachusetts	0	24	0	5	0	0	17
New Hampshire	0	932	0	0	0	0	13
Rhode Island	0	265	0	17	0	0	0
Vermont	0	0	0	0	0	0	16
Middle Atlantic	**2**	**12**	**0**	**2**	**21,875**	**0**	**6**
New Jersey	0	39	0	5	0	0	216
New York	0	20	0	3	0	0	7
Pennsylvania	2	15	0	2	21,875	0	8
East North Central	**0**	**4**	**26**	**2**	**14**	**0**	**34**
Illinois	0	5	0	6	0	0	35
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	103
Ohio	0	5	26	2	37	0	29
Wisconsin	0	0	0	0	0	0	100
West North Central	**0**	**38**	**0**	**32**	**0**	**0**	**61**
Iowa	0	42	0	2,787	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	82	0	45	0	0	73
Missouri	0	0	0	44	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**11**	**0**	**3**	**0**	**0**	**4**
Delaware	0	69	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	11	0	13	0	0	0
Georgia	0	138	0	9	0	0	0
Maryland	0	13	0	8	0	0	1
North Carolina	0	25	0	10	0	0	45
South Carolina	0	0	0	7	0	0	48
Virginia	0	6	0	2	0	0	30
West Virginia	6	0	0	23	0	0	21
East South Central	**0**	**105**	**0**	**2**	**0**	**0**	**142**
Alabama	0	108	0	2	0	0	0
Kentucky	0	0	0	0	0	0	142
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**7**	**0**	**1**	**3**	**0**	**13**
Arkansas	0	0	0	2	0	0	59
Louisiana	0	0	0	8	0	0	13
Oklahoma	0	0	0	0	0	0	0
Texas	0	20	0	1	3	0	0
Mountain	**5**	**21**	**0**	**2**	**0**	**0**	**27**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	57
Idaho	0	0	0	55	0	0	35
Montana	7	26	0	98	0	0	83
Nevada	0	0	0	0	0	0	90
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**14**	**0**	**2**	**0**	**0**	**22**
California	0	0	0	1	0	0	26
Oregon	0	0	0	10	0	0	61
Washington	0	72	0	32	0	0	54
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	50	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**3**	**17**	**1**	**8**	**0**	**5**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through June 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**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	47	12	0	0	1
Maine	0	0	0	0	10	0	0	9
Massachusetts	0	0	0	10	7	0	2	3
New Hampshire	0	0	0	0	20	0	0	2
Rhode Island	0	0	0	69	8	0	0	16
Vermont	0	0	0	34	32	0	0	15
Middle Atlantic	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	2
New York	0	0	0	21	5	0	0	1
Pennsylvania	0	0	0	33	6	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**18**	**0**
Illinois	0	0	0	24	4	0	0	1
Indiana	0	0	0	20	6	0	0	3
Michigan	0	0	0	0	8	0	30	2
Ohio	0	0	0	30	5	0	0	1
Wisconsin	0	0	0	62	14	0	0	1
West North Central	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	7	0	0	4
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	6	0	0	7
Missouri	0	0	0	42	9	0	0	19
Nebraska	0	0	0	61	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	241	12	0	0	12
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	41	32	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	21	5	0	1	9
Georgia	0	0	0	8	7	0	0	7
Maryland	0	0	0	19	10	0	0	1
North Carolina	0	0	0	5	4	0	0	4
South Carolina	0	0	0	44	29	0	0	8
Virginia	0	0	0	27	15	0	0	2
West Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**19**	**13**	**0**	**0**	**2**
Alabama	0	0	0	28	17	0	0	2
Kentucky	0	0	0	0	0	0	0	6
Mississippi	0	0	0	55	50	0	0	0
Tennessee	0	0	0	27	22	0	0	22
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	17	0	0	1
Louisiana	0	0	0	0	40	0	0	3
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**7**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	11	4	0	0	4
Idaho	0	29	0	13	8	0	0	13
Montana	0	0	0	85	12	0	0	6
Nevada	0	7	0	4	4	0	0	3
New Mexico	0	0	0	11	5	0	0	3
Utah	0	18	0	8	6	0	0	5
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	19	0	24	6	0	0	5
Washington	0	0	0	0	9	0	0	13
Pacific Noncontiguous	**0**	**18**	**0**	**24**	**14**	**0**	**0**	**4**
Alaska	0	0	0	0	64	0	0	40
Hawaii	0	18	0	24	14	0	0	3
U.S. Total	**0**	**4**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, June 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**38**	**0**	**21**	**0**	**0**	**0**
Connecticut	0	3,567	0	32	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	58	0	33	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**54**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	63	0	27	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**63**	**2**	**0**	**9**	**0**	**0**	**0**
Illinois	97	0	0	30	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	11	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	9	0	0	0
West North Central	**0**	**20**	**0**	**3**	**0**	**0**	**0**
Iowa	0	0	0	4	0	0	0
Minnesota	0	24	0	9	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	660	0	0	0	0	0
South Atlantic	**0**	**1**	**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	18	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	79	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**	**0**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**0**	**0**	**18**	**0**	**0**	**487**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	28	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	21	0	0	487
Mountain	**0**	**0**	**0**	**10**	**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	35	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**27**	**0**	**3**	**0**	**0**	**0**
California	0	36	0	3	0	0	0
Oregon	0	0	0	67	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**50**	**25**	**0**	**0**	**0**	**0**	**133**
Alaska	50	164	0	0	0	0	133
Hawaii	0	0	0	0	0	0	0
U.S. Total	**23**	**19**	**0**	**5**	**0**	**0**	**87**

Displayed values of zero may 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, June 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**	**65**	**3**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	32
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	65	10	0	0	28
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**21**	**9**	**0**	**5**	**9**
New Jersey	0	0	0	22	14	0	0	9
New York	0	0	0	121	14	0	10	15
Pennsylvania	0	0	0	95	17	0	0	8
East North Central	**0**	**0**	**0**	**148**	**8**	**0**	**0**	**7**
Illinois	0	0	0	0	213	0	0	29
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	148	51	0	0	2
Wisconsin	0	0	0	0	53	0	0	21
West North Central	**0**	**0**	**0**	**0**	**20**	**0**	**52**	**6**
Iowa	0	0	0	0	74	0	0	8
Minnesota	0	0	0	0	53	0	52	19
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	660
South Atlantic	**0**	**0**	**0**	**27**	**13**	**0**	**0**	**5**
Delaware	0	0	0	160	85	0	0	85
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	159	50	0	0	40
Georgia	0	0	0	141	141	0	0	111
Maryland	0	0	0	119	63	0	0	4
North Carolina	0	0	0	29	30	0	0	22
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	9	0	0	4
East South Central	**0**	**0**	**0**	**127**	**127**	**0**	**0**	**12**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	127	127	0	0	12
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	28
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	20
Mountain	**0**	**0**	**0**	**30**	**26**	**0**	**0**	**11**
Arizona	0	0	0	69	69	0	0	12
Colorado	0	0	0	64	54	0	0	32
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	39	39	0	0	29
New Mexico	0	0	0	0	282	0	0	35
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**27**	**14**	**0**	**0**	**5**
California	0	0	0	27	14	0	0	5
Oregon	0	0	0	0	113	0	0	59
Washington	0	0	0	0	115	0	0	88
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**25**
Alaska	0	0	0	0	0	0	0	57
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**13**	**5**	**0**	**2**	**3**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**38**	**0**	**21**	**0**	**0**	**0**
Connecticut	0	3,567	0	32	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	58	0	33	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**54**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	63	0	27	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**63**	**2**	**0**	**9**	**0**	**0**	**0**
Illinois	97	0	0	30	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	11	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	9	0	0	0
West North Central	**0**	**20**	**0**	**3**	**0**	**0**	**0**
Iowa	0	0	0	4	0	0	0
Minnesota	0	24	0	9	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	660	0	0	0	0	0
South Atlantic	**0**	**1**	**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	18	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	79	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**	**0**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**0**	**0**	**18**	**0**	**0**	**487**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	28	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	21	0	0	487
Mountain	**0**	**0**	**0**	**10**	**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	35	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**27**	**0**	**3**	**0**	**0**	**0**
California	0	36	0	3	0	0	0
Oregon	0	0	0	67	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**50**	**25**	**0**	**0**	**0**	**0**	**133**
Alaska	50	164	0	0	0	0	133
Hawaii	0	0	0	0	0	0	0
U.S. Total	**23**	**19**	**0**	**5**	**0**	**0**	**87**

Displayed values of zero may 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 June 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**	**65**	**3**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	32
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	65	10	0	0	28
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**21**	**9**	**0**	**5**	**9**
New Jersey	0	0	0	22	14	0	0	9
New York	0	0	0	121	14	0	10	15
Pennsylvania	0	0	0	95	17	0	0	8
East North Central	**0**	**0**	**0**	**148**	**8**	**0**	**0**	**7**
Illinois	0	0	0	0	213	0	0	29
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	148	51	0	0	2
Wisconsin	0	0	0	0	53	0	0	21
West North Central	**0**	**0**	**0**	**0**	**20**	**0**	**52**	**6**
Iowa	0	0	0	0	74	0	0	8
Minnesota	0	0	0	0	53	0	52	19
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	660
South Atlantic	**0**	**0**	**0**	**27**	**13**	**0**	**0**	**5**
Delaware	0	0	0	160	85	0	0	85
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	159	50	0	0	40
Georgia	0	0	0	141	141	0	0	111
Maryland	0	0	0	119	63	0	0	4
North Carolina	0	0	0	29	30	0	0	22
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	9	0	0	4
East South Central	**0**	**0**	**0**	**127**	**127**	**0**	**0**	**12**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	127	127	0	0	12
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	28
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	20
Mountain	**0**	**0**	**0**	**30**	**26**	**0**	**0**	**11**
Arizona	0	0	0	69	69	0	0	12
Colorado	0	0	0	64	54	0	0	32
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	39	39	0	0	29
New Mexico	0	0	0	0	282	0	0	35
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**27**	**14**	**0**	**0**	**5**
California	0	0	0	27	14	0	0	5
Oregon	0	0	0	0	113	0	0	59
Washington	0	0	0	0	115	0	0	88
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**25**
Alaska	0	0	0	0	0	0	0	57
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**13**	**5**	**0**	**2**	**3**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**131**	**52**	**0**	**16**	**0**	**0**	**20**
Connecticut	0	0	0	20	0	0	0
Maine	131	52	0	37	0	0	20
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**20**	**14**	**37**	**13**	**30**	**0**	**17**
New Jersey	0	0	0	14	0	0	0
New York	0	13	0	13	0	0	17
Pennsylvania	32	48	51	20	42	0	0
East North Central	**7**	**40**	**0**	**8**	**15**	**0**	**56**
Illinois	6	0	0	17	0	0	0
Indiana	0	1	0	11	16	0	0
Michigan	80	126	0	28	0	0	118
Ohio	99	0	0	11	0	0	0
Wisconsin	27	1,040	0	30	0	0	63
West North Central	**4**	**0**	**0**	**5**	**0**	**0**	**46**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	24	0	0	0
Minnesota	16	0	0	0	0	0	46
Missouri	0	0	0	0	0	0	0
Nebraska	8	0	0	0	0	0	0
North Dakota	71	0	0	0	0	0	0
South Atlantic	**21**	**47**	**47**	**7**	**32**	**0**	**18**
Delaware	0	0	0	23	36	0	0
Florida	47	112	0	15	0	0	0
Georgia	63	86	47	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	17	110	0	32	0	0	439
South Carolina	0	0	0	4	0	0	0
Virginia	0	60	0	8	0	0	0
West Virginia	0	0	0	0	0	0	18
East South Central	**6**	**98**	**0**	**10**	**23**	**0**	**0**
Alabama	70	106	0	18	47	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	24	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	**0**	**149**	**8**	**2**	**4**	**0**	**0**
Arkansas	0	357	0	27	0	0	0
Louisiana	0	0	0	2	5	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	21	2	7	0	0
Mountain	**10**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	84	0	0	83	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	22	0	0	13	0	0	0
Pacific Contiguous	**0**	**283**	**0**	**1**	**2**	**0**	**0**
California	0	34	0	1	2	0	0
Oregon	0	0	0	75	0	0	0
Washington	0	326	0	71	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**113**
Alaska	0	11	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	**3**	**13**	**13**	**1**	**7**	**0**	**13**

Displayed values of zero may 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, June 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**	**8**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	20
Maine	0	0	0	0	8	0	0	10
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**67**	**9**	**0**	**0**	**8**
New Jersey	0	0	0	99	99	0	0	7
New York	0	0	0	0	17	0	0	7
Pennsylvania	0	0	0	86	10	0	0	13
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	80	0	0	11
Michigan	0	0	0	0	10	0	0	10
Ohio	0	0	0	0	13	0	0	9
Wisconsin	0	0	0	0	11	0	74	13
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	22
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	8
North Dakota	0	0	0	0	0	0	0	30
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**3**
Delaware	0	0	0	0	244	0	0	19
Florida	0	0	0	0	7	0	0	5
Georgia	0	0	0	0	5	0	24	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	4
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	20	0	0	13
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**1**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	4	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	14	0	6	2
Mountain	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	5	0	0	13
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**52**	**6**	**0**	**3**	**1**
California	0	0	0	52	12	0	3	1
Oregon	0	0	0	0	14	0	0	15
Washington	0	0	0	0	9	0	0	9
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**76**	**0**	**0**	**17**
Alaska	0	0	0	0	76	0	0	8
Hawaii	0	0	0	0	0	0	0	23
U.S. Total	**0**	**0**	**0**	**39**	**2**	**0**	**1**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**131**	**52**	**0**	**16**	**0**	**0**	**20**
Connecticut	0	0	0	20	0	0	0
Maine	131	52	0	37	0	0	20
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**20**	**14**	**37**	**13**	**30**	**0**	**17**
New Jersey	0	0	0	14	0	0	0
New York	0	13	0	13	0	0	17
Pennsylvania	32	48	51	20	42	0	0
East North Central	**7**	**40**	**0**	**8**	**15**	**0**	**56**
Illinois	6	0	0	17	0	0	0
Indiana	0	1	0	11	16	0	0
Michigan	80	126	0	28	0	0	118
Ohio	99	0	0	11	0	0	0
Wisconsin	27	1,040	0	30	0	0	63
West North Central	**4**	**0**	**0**	**5**	**0**	**0**	**46**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	24	0	0	0
Minnesota	16	0	0	0	0	0	46
Missouri	0	0	0	0	0	0	0
Nebraska	8	0	0	0	0	0	0
North Dakota	71	0	0	0	0	0	0
South Atlantic	**21**	**47**	**47**	**7**	**32**	**0**	**18**
Delaware	0	0	0	23	36	0	0
Florida	47	112	0	15	0	0	0
Georgia	63	86	47	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	17	110	0	32	0	0	439
South Carolina	0	0	0	4	0	0	0
Virginia	0	60	0	8	0	0	0
West Virginia	0	0	0	0	0	0	18
East South Central	**6**	**98**	**0**	**10**	**23**	**0**	**0**
Alabama	70	106	0	18	47	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	24	0	0	0
Tennessee	0	0	0	10	0	0	0
West South Central	**0**	**149**	**8**	**2**	**4**	**0**	**0**
Arkansas	0	357	0	27	0	0	0
Louisiana	0	0	0	2	5	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	21	2	7	0	0
Mountain	**10**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	84	0	0	83	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	22	0	0	13	0	0	0
Pacific Contiguous	**0**	**283**	**0**	**1**	**2**	**0**	**0**
California	0	34	0	1	2	0	0
Oregon	0	0	0	75	0	0	0
Washington	0	326	0	71	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**113**
Alaska	0	11	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	**3**	**13**	**13**	**1**	**7**	**0**	**13**

Displayed values of zero may 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 June 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**	**8**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	20
Maine	0	0	0	0	8	0	0	10
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**67**	**9**	**0**	**0**	**8**
New Jersey	0	0	0	99	99	0	0	7
New York	0	0	0	0	17	0	0	7
Pennsylvania	0	0	0	86	10	0	0	13
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	80	0	0	11
Michigan	0	0	0	0	10	0	0	10
Ohio	0	0	0	0	13	0	0	9
Wisconsin	0	0	0	0	11	0	74	13
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	22
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	8
North Dakota	0	0	0	0	0	0	0	30
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**3**
Delaware	0	0	0	0	244	0	0	19
Florida	0	0	0	0	7	0	0	5
Georgia	0	0	0	0	5	0	24	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	4
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	20	0	0	13
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**1**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	4	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	14	0	6	2
Mountain	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	5	0	0	13
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**52**	**6**	**0**	**3**	**1**
California	0	0	0	52	12	0	3	1
Oregon	0	0	0	0	14	0	0	15
Washington	0	0	0	0	9	0	0	9
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**76**	**0**	**0**	**17**
Alaska	0	0	0	0	76	0	0	8
Hawaii	0	0	0	0	0	0	0	23
U.S. Total	**0**	**0**	**0**	**39**	**2**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 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	9	0	1
New Hampshire	1	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	3	4	9	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	3	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	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	7	5	0	3
Kansas	2	1	6	0	2
Minnesota	2	4	6	0	3
Missouri	1	1	7	0	1
Nebraska	2	7	7	0	3
North Dakota	2	5	9	0	4
South Dakota	3	10	10	0	5
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	1	0	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	0	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	4	0	2
Mississippi	2	1	4	0	2
Tennessee	1	2	4	0	1
West South Central	**1**	**0**	**1**	**0**	**1**
Arkansas	2	1	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	2	0	1	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	3	0	1
Colorado	2	6	5	0	3
Idaho	1	5	2	0	2
Montana	3	8	8	0	4
Nevada	1	3	1	0	1
New Mexico	3	8	7	0	4
Utah	2	6	2	0	2
Wyoming	3	8	3	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	1	5	8	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	**1**	**5**	**4**	**0**	**2**
Alaska	3	11	14	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 June 2017

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	1	1	2	0	0
Massachusetts	1	1	4	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	5	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	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	2	1	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	4	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	5	5	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	5	0	2
Missouri	2	1	4	0	1
Nebraska	2	5	8	0	3
North Dakota	1	3	6	0	3
South Dakota	2	6	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	2	8	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	4	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	0	0	3	0	0
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	1	2	4	0	1
Tennessee	2	2	4	0	1
West South Central	**1**	**0**	**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	0
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	6	0	2
Idaho	1	3	3	0	1
Montana	2	4	12	0	3
Nevada	0	3	1	0	1
New Mexico	2	6	8	0	3
Utah	1	4	2	0	2
Wyoming	2	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	3	8	0	2
Washington	1	2	7	0	1
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	2	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, June 2017

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	7	0	1
New Hampshire	1	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	2	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	0	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	1	6	6	0	3
Kansas	1	1	5	0	1
Minnesota	1	4	6	0	2
Missouri	1	1	6	0	1
Nebraska	2	6	8	0	3
North Dakota	1	4	7	0	3
South Dakota	2	8	11	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	0	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	2	2	4	0	2
Mississippi	1	2	4	0	1
Tennessee	1	2	4	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	2	0	0
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	6	0	2
Idaho	1	4	3	0	2
Montana	2	6	12	0	3
Nevada	0	3	1	0	1
New Mexico	1	7	9	0	4
Utah	1	5	3	0	2
Wyoming	2	6	4	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	8	0	2
Washington	1	3	7	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	2	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

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

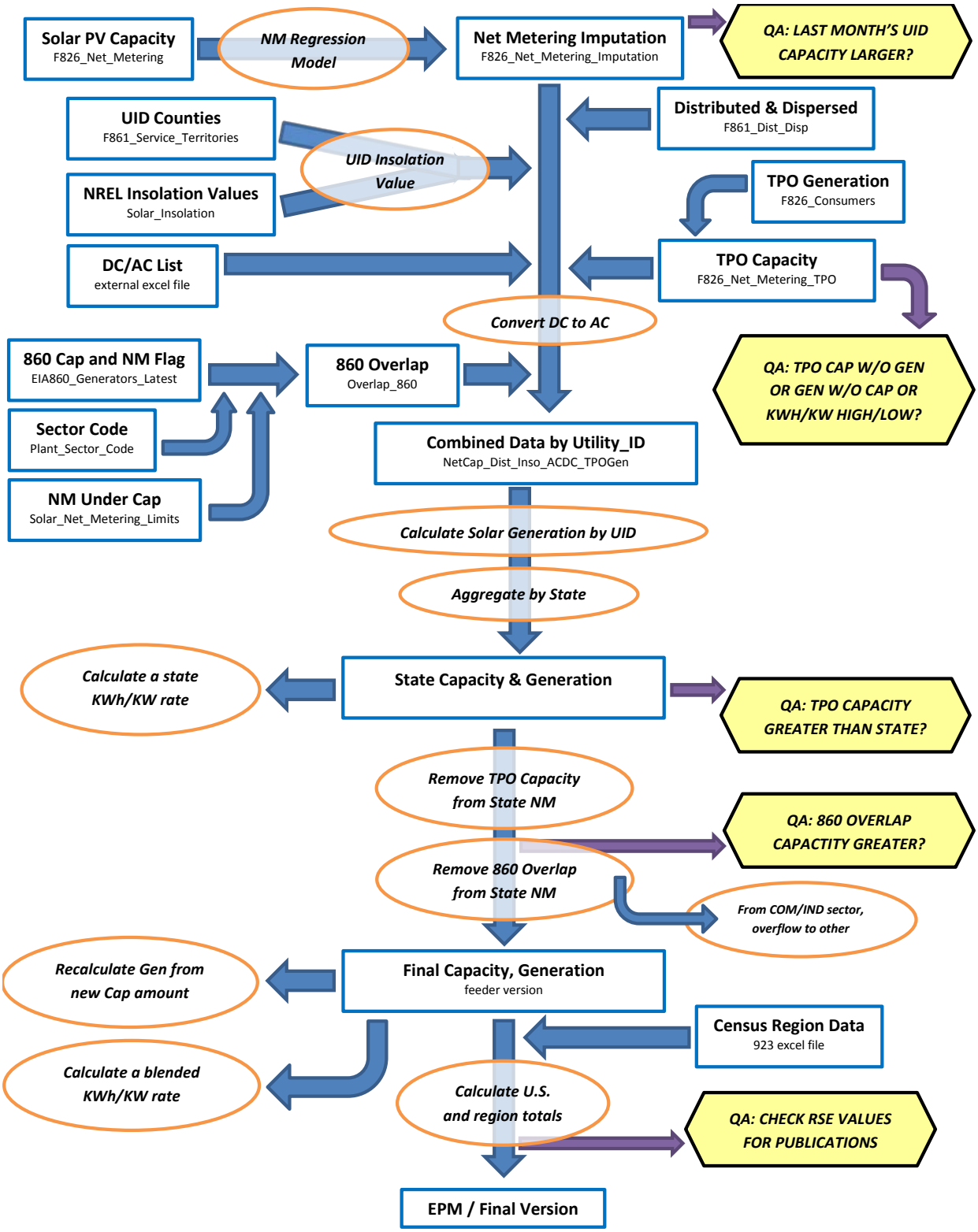
TMY3 (1991-2005) Weather Stations by MSA

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, June 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	26.10	6.06	--	1.03
Connecticut	--	--	--	1.03
Maine	26.10	6.25	--	1.02
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.88	5.92	--	1.03
New Jersey	26.52	5.71	--	1.04
New York	25.92	6.10	--	1.03
Pennsylvania	23.73	5.88	--	1.04
East North Central	20.16	5.81	27.18	1.04
Illinois	17.73	5.78	--	1.01
Indiana	22.48	5.77	--	1.06
Michigan	18.59	5.92	27.23	1.03
Ohio	24.59	5.80	--	1.06
Wisconsin	17.81	5.85	26.84	1.03
West North Central	16.64	5.80	28.67	1.04
Iowa	17.74	5.80	28.67	1.06
Kansas	17.10	5.80	--	1.03
Minnesota	17.67	5.80	--	1.04
Missouri	17.55	5.76	--	1.01
Nebraska	16.93	5.75	--	1.06
North Dakota	13.30	5.83	--	1.00
South Dakota	16.50	--	--	--
South Atlantic	23.57	5.86	27.85	1.03
Delaware	25.96	5.67	--	1.03
District of Columbia	--	--	--	--
Florida	23.61	5.82	27.85	1.02
Georgia	20.34	5.84	--	1.03
Maryland	24.70	5.82	--	1.04
North Carolina	25.16	5.94	--	1.04
South Carolina	24.88	5.93	--	1.03
Virginia	21.12	5.90	--	1.05
West Virginia	24.84	5.73	--	1.06
East South Central	20.85	5.77	28.03	1.03
Alabama	19.72	5.56	--	1.03
Kentucky	22.02	5.81	28.03	1.01
Mississippi	14.88	5.80	--	1.03
Tennessee	21.44	5.76	--	1.01
West South Central	16.06	5.84	28.48	1.03
Arkansas	17.77	5.83	--	1.03
Louisiana	16.56	--	28.48	1.03
Oklahoma	17.42	--	--	1.04
Texas	15.56	5.86	--	1.03
Mountain	18.78	5.80	--	1.05
Arizona	19.21	5.42	--	1.04
Colorado	18.79	--	--	1.09
Idaho	--	--	--	--
Montana	16.86	--	--	1.05
Nevada	17.89	5.83	--	1.05
New Mexico	18.98	5.66	--	1.04
Utah	21.20	5.88	--	1.04
Wyoming	17.58	5.88	--	1.05
Pacific Contiguous	17.86	--	--	1.04
California	22.90	--	--	1.04
Oregon	--	--	--	1.08
Washington	17.09	--	--	1.10
Pacific Noncontiguous	19.43	6.12	--	1.00
Alaska	--	--	--	1.00
Hawaii	19.43	6.12	--	--
U.S. Total	19.30	6.03	28.11	1.03

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

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2013 through 2015

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2013**	**2014**	**2015**
Net Generation			
Coal	0.31%	0.25%	0.33%
Petroleum Liquids	4.04%	2.32%	1.00%
Petroleum Coke	0.95%	2.96%	1.60%
Natural Gas	0.98%	0.42%	0.18%
Other Gases	5.81%	4.12%	3.90%
Hydroelectric	0.65%	0.49%	1.08%
Nuclear	0.00%	0.01%	0.01%
Other	0.56%	0.43%	0.80%
Total	**0.19%**	**0.08%**	**0.23%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.07%	0.13%	0.24%
Petroleum Liquids	3.49%	2.17%	2.28%
Petroleum Coke	1.03%	3.19%	1.50%
Natural Gas	0.99%	0.48%	0.32%
Fuel Stocks for Electric Power Sector			
Coal	0.25%	0.38%	0.40%
Petroleum Liquids	2.54%	4.25%	2.92%
Petroleum Coke	0.08%	0.61%	0.04%
Retail Sales			
Residential	0.26%	0.30%	0.30%
Commercial	0.22%	0.38%	0.18%
Industrial	3.20%	4.39%	2.92%
Transportation	1.45%	0.44%	0.37%
Total	**0.90%**	**1.10%**	**0.93%**
Revenue			
Residential	0.34%	0.43%	0.15%
Commercial	0.47%	0.47%	0.62%
Industrial	4.28%	5.66%	3.15%
Transportation	3.84%	1.92%	1.09%
Total	**0.76%**	**1.01%**	**0.83%**
Average Retail Price			
Residential	0.12%	0.12%	0.15%
Commercial	0.30%	0.20%	0.44%
Industrial	1.05%	1.20%	0.31%
Transportation	2.49%	2.18%	0.83%
Total	**0.17%**	**0.16%**	**0.11%**
Receipt of Fossil Fuels			
Coal	2.50%	2.20%	1.70%
Petroleum Liquids	0.79%	0.49%	1.86%
Petroleum Coke	2.30%	2.03%	2.47%
Natural Gas	0.47%	0.26%	0.25%
Cost of Fossil Fuels			
Coal	0.18%	0.18%	0.04%
Petroleum Liquids	0.14%	0.04%	0.25%
Petroleum Coke	1.22%	1.03%	1.42%
Natural Gas	0.02%	0.06%	0.14%

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, 2013 through 2015

	2013			2014			2015		
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	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%
Petroleum Liquids	13,410	13,820	3.06%	18,708	18,276	-2.31%	17,456	17,372	-0.48%
Petroleum Coke	13,453	13,344	-0.81%	11,781	11,955	1.48%	10,987	10,877	-1.00%
Natural Gas	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%
Other Gases	12,271	12,853	4.75%	11,578	12,022	3.83%	12,963	13,117	1.18%
Hydroelectric	264,713	263,884	-0.31%	252,540	253,193	0.26%	246,075	243,989	-0.85%
Nuclear	789,017	789,016	0.00%	797,067	797,166	0.01%	797,178	797,178	0.00%
Other	265,683	267,096	0.53%	293,636	292,674	-0.33%	311,597	309,189	-0.77%
Total	**4,058,209**	**4,065,964**	**0.19%**	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	860,790	860,729	-0.01%	854,416	853,634	-0.09%	740,855	739,594	-0.17%
Petroleum Liquids (1,000 barrels)	22,751	23,231	2.11%	32,084	31,531	-1.72%	29,545	28,925	-2.10%
Petroleum Coke (1,000 tons)	4,893	4,852	-0.83%	4,325	4,412	2.02%	4,088	4,044	-1.07%
Natural Gas (1,000 Mcf)	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	147,973	147,884	-0.06%	151,362	151,548	0.12%	197,128	195,548	-0.80%
Petroleum Liquids (1,000 barrels)	31,045	31,673	2.03%	32,139	33,505	4.25%	32,223	32,884	2.05%
Petroleum Coke (1,000 tons)	390	390	-0.01%	847	827	-2.29%	1,342	1,340	-0.15%
Retail Sales (Million kWh)									
Residential	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%
Commercial	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%
Industrial	954,731	985,352	3.21%	955,488	997,576	4.40%	958,563	986,508	2.92%
Transportation	7,525	7,625	1.32%	7,776	7,758	-0.24%	7,659	7,637	-0.29%
Total	**3,691,822**	**3,724,868**	**0.90%**	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**
Revenue (Million Dollars)									
Residential	168,547	169,131	0.35%	175,404	176,178	0.44%	177,367	177,624	0.14%
Commercial	137,779	137,188	-0.43%	145,889	145,253	-0.44%	143,893	144,781	0.62%
Industrial	65,111	67,934	4.33%	67,019	70,855	5.72%	66,088	68,166	3.14%
Transportation	775	805	3.84%	798	810	1.51%	779	771	-1.12%
Total	**372,213**	**375,058**	**0.76%**	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**
Average Retail Price (Cents/kWh)									
Residential	12.12	12.13	0.08%	12.50	12.52	0.13%	12.67	12.65	-0.16%
Commercial	10.29	10.26	-0.33%	10.75	10.74	-0.04%	10.59	10.64	0.44%
Industrial	6.82	6.89	1.09%	7.01	7.10	1.26%	6.89	6.91	0.22%
Transportation	10.30	10.55	2.49%	10.27	10.45	1.75%	10.17	10.09	-0.83%
Total	**10.08**	**10.07**	**-0.13%**	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	803,206	823,222	2.49%	836,196	854,560	2.20%	769,866	782,929	1.70%
Petroleum Liquids (1,000 barrels)	20,348	20,413	0.32%	28,355	28,514	0.56%	24,512	24,320	-0.78%
Petroleum Coke (1,000 tons)	4,555	4,660	2.31%	5,091	5,195	2.03%	4,779	4,897	2.46%
Natural Gas (1,000 Mcf)	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.35	2.34	-0.12%	2.37	2.37	0.02%	2.22	2.22	-0.03%
Petroleum Liquids (1,000 barrels)	20.59	20.56	-0.12%	19.89	19.89	-0.03%	11.48	11.49	0.10%
Petroleum Coke (1,000 tons)	2.16	2.17	0.70%	1.96	1.98	0.97%	1.87	1.84	-1.37%
Natural Gas (1,000 Mcf)	4.33	4.33	0.03%	4.99	4.99	0.01%	3.22	3.23	0.18%

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 2015 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.