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U.S. Energy Information Administration

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with Data for April 2017

June 2017

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June 2017 EPM Revision Notice – June 29, 2017

Estimated April 2017 Small Scale Solar Photovoltaic Net Generation and Capacity were underestimated by 8.1% and 8.0%, respectively. Estimated Small Scale Solar Photovoltaic Net Generation was revised upward from 2,084 thousand megawatthours (MWh) to 2,268 thousand MWh. Estimated Small Scale Solar Photovoltaic Capacity was revised upward from 13,133.5 megawatts (MW) to 14,282.4 MW. Tables that are revised are the following: Tables ES.1.A; ES.1.B; 1.1; 1.1.A; 1.2.C; 1.2.D; 1.2.E; 1.17.A; 1.17.B; 6.1; 6.1.A; 6.1.B; and 6.2.B.

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

Preface

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

Background

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

Data sources

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

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	81,789	72,022	13.6%	59,423	53,477	21,743	17,802	22	29	601	713	0	0
Petroleum Liquids	Utility Scale Facilities	897	794	12.9%	670	568	186	193	8	8	34	25	0	0
Petroleum Coke	Utility Scale Facilities	435	1,037	-58.1%	260	858	121	97	0	0	54	81	0	0
Natural Gas	Utility Scale Facilities	86,234	99,561	-13.4%	42,419	46,627	36,240	45,069	529	615	7,046	7,250	0	0
Other Gas	Utility Scale Facilities	1,084	1,149	-5.7%	18	8	285	321	0	0	781	819	0	0
Nuclear	Utility Scale Facilities	56,743	62,365	-9.0%	30,217	34,036	26,526	28,329	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	29,236	25,475	14.8%	26,998	23,633	2,092	1,706	NM	NM	131	131	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	36,637	29,761	23.1%	4,314	4,077	29,805	23,250	249	267	2,269	2,167	0	0
... Wind	Utility Scale Facilities	25,403	20,745	22.5%	3,582	3,528	21,800	17,196	14	13	7	7	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	4,816	2,949	63.3%	315	186	4,449	2,717	50	44	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,254	2,909	11.9%	211	181	872	677	5	5	2,167	2,045	0	0
... Other Biomass	Utility Scale Facilities	1,661	1,819	-8.7%	114	117	1,274	1,384	180	206	93	112	0	0
... Geothermal	Utility Scale Facilities	1,503	1,340	12.2%	92	65	1,410	1,275	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-437	-452	-3.3%	-366	-367	-71	-84	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,061	1,123	-5.6%	54	28	508	575	81	97	419	424	0	0
All Energy Sources	Utility Scale Facilities	293,679	292,836	0.3%	164,005	162,944	117,435	117,259	903	1,022	11,335	11,611	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,268	1,763	28.6%	0	0	0	0	760	661	226	164	1,282	939
Estimated Total Solar Photovoltaic	All Facilities	6,774	4,439	52.6%	315	175	4,139	2,455	809	705	NM	NM	1,282	939
Estimated Total Solar	All Facilities	7,084	4,712	50.3%	315	186	4,449	2,717	809	705	NM	NM	1,282	939
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	44,455	38,989	14.0%	31,772	28,663	12,449	10,062	8	11	225	254	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,487	1,319	12.8%	1,213	1,016	224	262	14	10	37	31	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	154	390	-60.4%	110	326	32	43	0	0	12	21	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	648,063	753,775	-14.0%	324,099	364,603	268,328	333,632	4,883	5,304	50,753	50,236	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,048	1,049	-0.2%	87	89	132	170	29	39	799	752	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	198	180	10.1%	0	1	82	79	12	10	104	91	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	74	71	4.7%	0	0	9	6	1	0	65	64	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	77,370	76,781	0.8%	758	700	20,709	22,327	3,634	4,001	52,269	49,753	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	45,502	40,039	13.6%	31,860	28,752	12,582	10,232	37	49	1,024	1,006	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,686	1,499	12.5%	1,214	1,017	306	341	26	20	140	121	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	229	461	-50.3%	110	326	42	50	1	0	76	85	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	725,434	830,556	-12.7%	324,857	365,304	289,038	355,959	8,517	9,304	103,021	99,989	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	167,236	195,419	-14.4%	131,184	151,329	35,053	42,662	130	145	870	1,283	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	31,055	33,491	-7.3%	19,969	20,909	9,201	10,786	315	411	1,570	1,386	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,090	1,428	-23.6%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for April									
	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	April 2017	April 2016	Percentage Change	April 2017	April 2016	Percentage Change	April 2017	April 2016	Percentage Change
Residential	90,780	88,107	3.0%	11,525	10,955	5.2%	12.70	12.43	2.2%
Commercial	101,566	101,464	0.1%	10,564	10,275	2.8%	10.40	10.13	2.7%
Industrial	75,624	75,801	-0.2%	4,992	4,849	2.9%	6.60	6.40	3.1%
Transportation	590	595	-0.9%	56	56	-0.7%	9.44	9.41	0.3%
All Sectors	268,560	265,967	1.0%	27,137	26,136	3.8%	10.10	9.83	2.7%

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

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2017 and 2016

Net Generation and Consumption of Fuels for January through April															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	374,253	350,429	6.8%	277,212	264,244	94,159	82,778	128	164	2,754	3,244	0	0
Petroleum Liquids	Utility Scale Facilities	3,959	4,194	-5.6%	2,930	2,857	837	1,163	47	37	146	138	0	0
Petroleum Coke	Utility Scale Facilities	2,830	3,840	-26.3%	2,078	3,148	476	376	3	4	273	312	0	0
Natural Gas	Utility Scale Facilities	348,778	411,329	-15.2%	168,812	196,574	148,406	182,601	2,404	2,409	29,157	29,745	0	0
Other Gas	Utility Scale Facilities	4,557	4,821	-5.5%	75	22	1,316	1,391	0	0	3,165	3,408	0	0
Nuclear	Utility Scale Facilities	259,010	266,677	-2.9%	137,739	140,737	121,271	125,940	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	111,750	102,076	9.5%	103,363	93,665	7,830	7,845	NM	NM	519	545	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	133,555	117,294	13.9%	15,522	15,144	107,610	91,761	993	1,071	9,430	9,318	0	0
... Wind	Utility Scale Facilities	93,043	81,459	14.2%	12,772	12,727	80,194	68,651	51	51	26	29	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	14,058	9,620	46.1%	949	618	12,955	8,835	147	158	NM	9	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	13,518	13,299	1.6%	977	983	3,509	3,459	23	21	9,008	8,836	0	0
... Other Biomass	Utility Scale Facilities	6,991	7,273	-3.9%	474	469	5,358	5,518	772	840	388	444	0	0
... Geothermal	Utility Scale Facilities	5,945	5,643	5.3%	350	346	5,595	5,298	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,876	-1,546	21.3%	-1,559	-1,221	-317	-325	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	4,281	4,384	-2.3%	200	115	2,138	2,278	327	362	1,616	1,628	0	0
All Energy Sources	Utility Scale Facilities	1,241,098	1,263,498	-1.8%	706,372	715,285	483,727	495,809	3,940	4,067	47,059	48,337	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	7,054	5,556	27.0%	0	0	0	0	2,469	2,146	695	520	3,889	2,889
Estimated Total Solar Photovoltaic	All Facilities	20,279	14,318	41.6%	949	593	12,122	8,002	2,616	2,304	703	529	3,889	2,889
Estimated Total Solar	All Facilities	21,112	15,176	39.1%	949	618	12,955	8,835	2,616	2,304	703	529	3,889	2,889
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	205,067	191,461	7.1%	150,409	142,925	53,558	47,310	48	54	1,051	1,173	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	6,679	7,126	-6.3%	5,227	5,147	1,206	1,780	79	42	168	157	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,059	1,426	-25.8%	843	1,182	155	163	1	1	60	80	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,611,272	3,049,301	-14.4%	1,277,645	1,487,328	1,102,061	1,334,243	22,463	21,593	209,103	206,137	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	4,591	5,319	-13.7%	398	390	549	604	156	224	3,488	4,101	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	786	831	-5.3%	9	13	299	320	91	48	386	450	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	301	345	-12.7%	1	1	37	36	6	6	258	302	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	325,864	320,285	1.7%	3,635	3,890	87,067	95,703	17,467	16,932	217,696	203,760	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	209,657	196,780	6.5%	150,807	143,315	54,107	47,914	204	278	4,539	5,274	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	7,465	7,957	-6.2%	5,236	5,160	1,505	2,100	170	91	554	607	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,360	1,771	-23.2%	844	1,183	191	199	6	7	318	383	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,937,136	3,369,586	-12.8%	1,281,280	1,491,217	1,189,128	1,429,947	39,930	38,525	426,799	409,897	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through April									
	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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	Percentage Change
Residential	424,128	434,814	-2.5%	53,559	53,266	0.6%	12.63	12.25	3.1%
Commercial	417,259	419,391	-0.5%	43,324	42,453	2.1%	10.38	10.12	2.6%
Industrial	299,978	301,509	-0.5%	19,901	19,338	2.9%	6.63	6.41	3.4%
Transportation	2,536	2,512	1.0%	239	237	0.9%	9.43	9.44	-0.1%
All Sectors	1,143,901	1,158,225	-1.2%	117,023	115,295	1.5%	10.23	9.95	2.8%

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	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal (1000 tons)	46,168	40,144	40.85	42.69	257	261	204,977	188,266	40.14	41.67
Petroleum Liquids (1000 barrels)	1,033	1,404	69.85	50.75	120	136	5,612	5,343	70.10	45.86
Petroleum Coke (1000 tons)	208	369	55.96	37.75	6	10	1,039	1,481	57.45	38.07
Natural Gas (1000 Mcf)	557,625	749,028	3.49	2.50	480	746	2,259,147	3,022,935	3.73	2.68

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal (1000 tons)	33,094	30,610	41.91	43.51	173	181	148,128	140,696	41.23	42.67
Petroleum Liquids (1000 barrels)	774	1,125	68.84	51.19	81	87	4,356	3,951	68.69	45.93
Petroleum Coke (1000 tons)	208	300	55.96	31.95	6	7	1,039	1,228	57.45	32.56
Natural Gas (1000 Mcf)	272,355	356,152	3.63	2.80	254	395	1,081,710	1,450,634	3.94	2.97

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal (1000 tons)	12,350	8,980	37.09	38.68	63	59	53,893	45,136	36.35	37.41
Petroleum Liquids (1000 barrels)	233	249	W	W	29	39	1,162	1,267	75.36	44.69
Petroleum Coke (1000 tons)	0	44	--	W	0	1	0	188	--	68.50
Natural Gas (1000 Mcf)	233,602	333,405	3.29	2.14	181	302	962,239	1,334,702	3.54	2.37

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal (1000 tons)	0	0	W	W	1	1	13	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)	490	567	W	W	3	3	2,414	2,857	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	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal (1000 tons)	724	554	W	W	20	20	2,943	2,416	W	W
Petroleum Liquids (1000 barrels)	26	29	W	W	10	10	94	125	70.97	55.07
Petroleum Coke (1000 tons)	0	25	--	W	0	2	0	65	--	W
Natural Gas (1000 Mcf)	51,178	58,903	W	W	42	46	212,783	234,742	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)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal	893,611	793,417	2.11	2.16	257	261	3,939,465	3,663,353	2.09	2.14
Petroleum Liquids	6,223	8,529	11.59	8.35	120	136	33,639	32,291	11.69	7.58
Petroleum Coke	5,835	10,307	2.00	1.35	6	10	29,115	41,531	2.05	1.36
Natural Gas	576,207	773,827	3.37	2.42	480	746	2,335,030	3,125,828	3.61	2.59
Fossil Fuels	1,481,876	1,586,081	2.61	2.31	642	914	6,337,248	6,863,004	2.67	2.36

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal	646,292	606,778	2.15	2.19	173	181	2,864,474	2,753,189	2.13	2.18
Petroleum Liquids	4,679	6,895	11.38	8.35	81	87	26,208	24,112	11.42	7.53
Petroleum Coke	5,835	8,436	2.00	1.14	6	7	29,115	34,611	2.05	1.15
Natural Gas	281,428	367,760	3.52	2.72	254	395	1,118,032	1,499,447	3.81	2.87
Fossil Fuels	938,235	989,869	2.60	2.42	365	515	4,037,829	4,311,359	2.65	2.44

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal	231,929	174,164	1.97	1.99	63	59	1,012,358	855,781	1.93	1.97
Petroleum Liquids	1,383	1,456	W	W	29	39	6,844	7,416	12.79	7.62
Petroleum Coke	0	1,203	--	W	0	1	0	5,156	--	2.50
Natural Gas	241,451	344,777	3.18	2.07	181	302	994,766	1,381,257	3.42	2.29
Fossil Fuels	474,763	521,600	W	W	230	348	2,013,969	2,249,611	2.63	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal	1	9	W	W	1	1	308	434	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	502	578	W	W	3	3	2,490	2,927	W	W
Fossil Fuels	503	587	W	W	3	3	2,797	3,361	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
Coal	15,389	12,466	W	W	20	20	62,325	53,949	W	W
Petroleum Liquids	160	177	W	W	10	10	586	763	11.37	9.00
Petroleum Coke	0	669	--	W	0	2	0	1,764	--	W
Natural Gas	52,826	60,713	W	W	42	46	219,742	242,197	W	W
Fossil Fuels	68,375	74,025	W	W	44	48	282,654	298,673	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-April 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
Year to Date															
2015	456,904	9,128	3,672	385,231	4,341	262,063	93,176	7,090	89,030	-1,631	4,251	1,313,256	3,959	10,168	11,050
2016	350,429	4,194	3,840	411,329	4,821	266,677	102,076	9,620	107,674	-1,546	4,384	1,263,498	5,556	14,318	15,176
2017	374,253	3,959	2,830	348,778	4,557	259,010	111,750	14,058	119,497	-1,876	4,281	1,241,098	7,054	20,279	21,112
Rolling 12 Months Ending in April															
2016	1,245,924	12,438	11,045	1,359,580	13,597	801,792	257,980	27,423	288,912	-5,007	14,160	4,027,843	15,736	39,956	43,159
2017	1,263,932	12,440	10,223	1,317,744	12,736	797,660	275,503	41,192	318,684	-7,016	13,581	4,056,679	20,965	58,794	62,157

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-April 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
Year to Date													
2015	63,259	6,208	882	13,792	3,506	2,199	986	5,288	93,176	189,296	3,959	10,168	11,050
2016	81,459	8,762	858	13,299	3,773	2,365	1,135	5,643	102,076	219,371	5,556	14,318	15,176
2017	93,043	13,226	833	13,518	3,664	2,241	1,086	5,945	111,750	245,305	7,054	20,279	21,112
Rolling 12 Months Ending in April													
2016	208,919	24,220	3,203	41,435	11,558	7,377	3,350	16,272	257,980	574,315	15,736	39,956	43,159
2017	238,456	37,830	3,362	40,722	11,453	7,252	3,082	17,719	275,503	635,379	20,965	58,794	62,157

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-April 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
Year to Date												
2015	330,897	4,552	2,759	179,561	91	137,235	86,276	427	12,287	-1,318	165	752,933
2016	264,244	2,857	3,148	196,574	22	140,737	93,665	618	14,526	-1,221	115	715,285
2017	277,212	2,930	2,078	168,812	75	137,739	103,363	949	14,573	-1,559	200	706,372
Rolling 12 Months Ending in April												
2016	931,732	8,691	8,667	634,830	NM	420,181	237,029	1,685	38,231	-4,008	508	2,277,675
2017	936,267	8,744	7,811	626,713	NM	421,402	256,347	2,602	40,635	-5,967	397	2,295,168

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.
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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2007-April 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
Year to Date												
2015	122,175	4,226	540	176,033	1,248	124,827	6,395	6,542	66,459	-313	2,103	510,236
2016	82,778	1,163	376	182,601	1,391	125,940	7,845	8,835	82,926	-325	2,278	495,809
2017	94,159	837	476	148,406	1,316	121,271	7,830	12,955	94,655	-317	2,138	483,727
Rolling 12 Months Ending in April												
2016	303,211	3,177	1,437	626,408	3,660	381,611	19,446	25,255	219,326	-999	7,013	1,589,545
2017	318,523	3,048	1,500	591,646	3,827	376,259	17,806	38,006	247,133	-1,049	6,986	1,603,686

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-April 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
Year to Date															
2015	205	113	4	2,136	0	0	11	116	881	0	354	3,820	1,687	1,802	1,802
2016	164	37	4	2,409	0	0	NM	158	912	0	362	4,067	2,146	2,304	2,304
2017	128	47	3	2,404	0	0	NM	147	846	0	327	3,940	2,469	2,616	2,616
Rolling 12 Months Ending in April															
2016	468	NM	8	7,744	0	0	NM	459	2,835	0	1,178	12,842	6,149	6,608	6,608
2017	401	NM	5	7,745	0	0	NM	554	2,529	0	1,041	12,466	7,503	8,057	8,057

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-April 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
Year to Date															
2015	3,627	237	369	27,501	3,002	0	494	6	9,403	0	1,629	46,268	413	419	419
2016	3,244	138	312	29,745	3,408	0	545	9	9,309	0	1,628	48,337	520	529	529
2017	2,754	146	273	29,157	3,165	0	519	NM	9,422	0	1,616	47,059	695	703	703
Rolling 12 Months Ending in April															
2016	10,513	463	934	90,599	9,808	0	1,461	NM	28,520	0	5,461	147,782	1,558	NM	NM
2017	8,741	533	NM	91,639	8,690	0	1,275	NM	28,387	0	5,157	145,359	1,997	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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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-April 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
Year to Date	
2015	1,859
2016	2,889
2017	3,889
Rolling 12 Months Ending in April	
2016	8,029
2017	11,465

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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	6,850	8,268	-17.1%	164	157	6,356	7,796	84	94	246	221
Connecticut	2,096	2,666	-21.4%	8	NM	2,025	2,607	26	26	37	31
Maine	947	891	6.2%	0	NM	744	703	18	16	185	173
Massachusetts	2,428	2,466	-1.5%	NM	48	2,331	2,359	35	44	21	NM
New Hampshire	780	1,698	-54.1%	34	46	742	1,646	1	NM	3	NM
Rhode Island	418	406	2.9%	1	1	413	401	4	NM	0	0
Vermont	182	141	29.0%	80	61	102	80	0	NM	0	0
Middle Atlantic	27,986	30,111	-7.1%	2,611	2,828	24,888	26,763	167	186	319	333
New Jersey	4,924	6,028	-18.3%	4	6	4,810	5,922	53	51	57	50
New York	9,217	9,458	-2.5%	2,596	2,817	6,471	6,465	81	99	69	77
Pennsylvania	13,845	14,625	-5.3%	12	NM	13,607	14,377	33	36	193	207
East North Central	42,740	41,928	1.9%	17,508	16,199	24,219	24,782	133	155	880	793
Illinois	14,053	13,972	0.6%	270	333	13,522	13,415	28	26	233	198
Indiana	6,736	7,068	-4.7%	5,640	5,822	721	985	19	19	357	242
Michigan	8,548	8,106	5.4%	6,438	5,104	1,950	2,790	60	81	99	132
Ohio	9,312	8,422	10.6%	2,004	1,742	7,225	6,594	19	NM	63	73
Wisconsin	4,092	4,360	-6.2%	3,155	3,198	802	999	7	NM	128	148
West North Central	24,987	23,253	7.5%	19,334	17,953	5,336	4,940	44	62	272	298
Iowa	4,565	3,854	18.5%	3,257	2,400	1,158	1,289	16	24	135	140
Kansas	3,790	3,491	8.6%	2,072	2,255	1,716	1,225	0	0	NM	NM
Minnesota	3,872	4,740	-18.3%	2,727	3,516	1,028	1,101	13	NM	103	102
Missouri	6,353	5,035	26.2%	6,083	4,700	253	315	14	15	4	NM
Nebraska	2,399	2,715	-11.6%	1,938	2,318	436	369	2	NM	23	25
North Dakota	3,017	2,528	19.4%	2,454	2,089	558	424	0	NM	NM	NM
South Dakota	990	891	11.2%	802	674	188	216	NM	NM	0	0
South Atlantic	59,103	58,048	1.8%	48,724	48,071	8,810	8,380	84	116	1,485	1,480
Delaware	390	751	-48.0%	NM	NM	305	623	0	NM	85	123
District of Columbia	4	NM	NM	0	0	4	0	0	NM	0	0
Florida	18,721	18,558	0.9%	17,157	16,776	1,118	1,333	6	NM	441	439
Georgia	9,629	9,389	2.6%	8,042	7,553	1,180	1,469	NM	NM	406	366
Maryland	2,455	2,665	-7.9%	NM	1	2,396	2,599	38	43	21	22
North Carolina	8,931	8,670	3.0%	7,800	7,611	1,015	892	15	20	101	148
South Carolina	7,490	7,261	3.2%	7,113	6,930	213	195	0	NM	164	135
Virginia	6,642	5,147	29.0%	5,326	4,407	1,105	521	24	36	187	181
West Virginia	4,840	5,603	-13.6%	3,284	4,789	1,475	748	0	0	81	66
East South Central	25,291	24,969	1.3%	21,606	21,591	2,975	2,694	8	NM	702	673
Alabama	11,101	9,744	13.9%	8,279	7,028	2,502	2,400	0	0	321	316
Kentucky	4,838	5,532	-12.6%	4,784	5,480	9	NM	0	0	45	50
Mississippi	4,234	4,321	-2.0%	3,636	3,902	441	276	0	NM	158	142
Tennessee	5,118	5,371	-4.7%	4,908	5,180	24	16	8	NM	178	165
West South Central	50,328	50,556	-0.5%	14,120	16,582	30,193	27,710	59	82	5,956	6,182
Arkansas	4,035	4,373	-7.7%	2,801	2,824	1,094	1,423	1	NM	139	126
Louisiana	6,843	8,263	-17.2%	3,449	4,906	989	755	NM	NM	2,401	2,589
Oklahoma	5,666	5,295	7.0%	2,456	2,823	3,143	2,405	0	NM	68	66
Texas	33,784	32,624	3.6%	5,414	6,029	24,967	23,127	55	67	3,349	3,401
Mountain	24,669	24,994	-1.3%	18,506	19,582	5,880	5,077	50	42	233	292
Arizona	7,019	7,363	-4.7%	6,058	6,439	948	913	13	NM	0	0
Colorado	4,013	4,221	-4.9%	2,845	3,153	1,160	1,060	NM	NM	5	NM
Idaho	1,502	1,575	-4.6%	986	1,092	466	427	4	NM	45	55
Montana	2,130	2,067	3.0%	1,100	1,032	1,029	1,033	0	0	2	NM
Nevada	2,581	2,917	-11.5%	1,571	2,150	980	730	12	12	18	26
New Mexico	2,434	1,821	33.7%	1,734	1,232	691	579	9	NM	0	NM
Utah	2,089	2,284	-8.5%	1,705	2,047	326	137	8	NM	49	93
Wyoming	2,902	2,746	5.7%	2,508	2,438	280	198	0	0	114	111
Pacific Contiguous	30,541	29,550	3.4%	20,687	19,245	8,420	8,780	226	224	1,208	1,302
California	15,436	14,516	6.3%	7,202	5,941	6,978	7,233	216	212	1,041	1,129
Oregon	4,610	5,041	-8.5%	3,712	3,992	836	989	7	NM	54	53
Washington	10,495	9,994	5.0%	9,773	9,311	606	558	3	NM	113	120
Pacific Noncontiguous	1,184	1,159	2.2%	745	736	357	337	48	50	34	36
Alaska	380	412	-7.7%	339	374	12	14	NM	13	9	NM
Hawaii	804	747	7.6%	406	362	344	323	29	37	25	26
U.S. Total	293,679	292,836	0.3%	164,005	162,944	117,435	117,259	903	1,022	11,335	11,611

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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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	33,129	34,369	-3.6%	826	948	30,873	32,044	400	409	1,029	967
Connecticut	11,031	11,943	-7.6%	28	NM	10,720	11,655	123	125	161	149
Maine	3,847	4,192	-8.2%	0	NM	3,009	3,383	64	65	774	744
Massachusetts	11,053	9,731	13.6%	NM	182	10,636	9,308	172	178	84	64
New Hampshire	4,925	5,975	-17.6%	303	393	4,590	5,554	23	19	10	NM
Rhode Island	1,550	1,751	-11.5%	3	4	1,529	1,725	17	22	0	0
Vermont	722	777	-7.1%	332	356	388	419	1	NM	0	0
Middle Atlantic	123,980	133,753	-7.3%	10,945	11,175	110,875	120,287	698	767	1,462	1,524
New Jersey	21,451	25,390	-15.5%	2	1	20,988	24,933	211	220	250	235
New York	39,712	41,937	-5.3%	10,899	11,145	28,148	30,038	359	417	306	337
Pennsylvania	62,817	66,426	-5.4%	44	NM	61,739	65,316	129	130	905	952
East North Central	184,600	187,013	-1.3%	77,243	78,052	103,071	104,947	602	635	3,684	3,379
Illinois	58,339	59,611	-2.1%	1,583	1,433	55,671	57,183	134	129	951	867
Indiana	31,923	32,974	-3.2%	27,020	26,841	3,342	4,968	76	81	1,485	1,085
Michigan	35,708	37,099	-3.7%	25,848	25,500	9,153	10,755	266	320	441	523
Ohio	39,182	37,071	5.7%	7,590	8,529	31,255	28,194	86	48	252	301
Wisconsin	19,448	20,259	-4.0%	15,202	15,750	3,651	3,847	39	58	556	603
West North Central	109,941	104,963	4.7%	88,152	85,765	20,293	17,586	188	233	1,307	1,380
Iowa	17,951	17,667	1.6%	12,849	12,191	4,455	4,698	64	89	582	689
Kansas	16,392	15,092	8.6%	10,289	10,281	6,088	4,783	0	0	NM	28
Minnesota	19,195	19,507	-1.6%	14,637	15,203	3,957	3,780	63	78	538	446
Missouri	27,359	25,145	8.8%	26,348	24,129	937	940	54	60	19	NM
Nebraska	11,713	12,283	-4.6%	9,747	10,867	1,844	1,277	7	6	114	132
North Dakota	13,251	11,813	12.2%	10,945	10,375	2,266	1,368	0	NM	NM	70
South Dakota	4,080	3,457	18.0%	3,336	2,718	745	739	NM	NM	0	0
South Atlantic	240,739	249,438	-3.5%	202,301	208,723	31,760	34,238	395	461	6,284	6,017
Delaware	1,739	2,399	-27.5%	NM	NM	1,309	2,010	2	NM	426	372
District of Columbia	28	NM	NM	0	0	18	0	10	NM	0	0
Florida	69,369	70,721	-1.9%	64,233	64,371	3,371	4,619	27	34	1,738	1,696
Georgia	38,200	39,542	-3.4%	32,145	33,916	4,345	4,009	NM	6	1,709	1,611
Maryland	9,776	11,317	-13.6%	NM	6	9,516	11,055	160	172	98	83
North Carolina	39,288	40,626	-3.3%	35,091	36,987	3,593	2,981	75	91	529	568
South Carolina	29,865	31,589	-5.5%	28,463	29,921	736	1,064	1	NM	665	600
Virginia	29,578	28,464	3.9%	24,766	23,655	3,935	3,873	118	134	759	801
West Virginia	22,896	24,763	-7.5%	17,599	19,852	4,938	4,626	0	0	360	285
East South Central	108,278	114,317	-5.3%	93,737	97,569	11,628	13,746	51	50	2,862	2,951
Alabama	42,791	45,155	-5.2%	32,169	32,355	9,288	11,416	0	0	1,334	1,384
Kentucky	22,905	25,794	-11.2%	22,623	25,501	91	79	0	0	190	213
Mississippi	17,543	19,930	-12.0%	14,742	17,101	2,174	2,185	3	NM	624	641
Tennessee	25,039	23,438	6.8%	24,203	22,612	75	66	48	47	714	712
West South Central	201,779	208,019	-3.0%	60,762	68,744	116,487	113,184	292	306	24,238	25,785
Arkansas	17,547	18,352	-4.4%	13,284	13,381	3,689	4,383	2	NM	571	585
Louisiana	29,058	33,941	-14.4%	15,945	19,806	3,528	3,411	NM	56	9,536	10,668
Oklahoma	22,355	22,825	-2.1%	10,584	12,684	11,487	9,850	0	NM	284	288
Texas	132,820	132,901	-0.1%	20,948	22,873	97,784	95,540	241	245	13,846	14,245
Mountain	108,946	109,956	-0.9%	85,407	85,997	22,374	22,710	184	150	981	1,098
Arizona	28,864	30,800	-6.3%	26,256	27,103	2,560	3,654	49	42	0	0
Colorado	17,493	17,467	0.1%	13,093	13,067	4,366	4,372	NM	NM	25	NM
Idaho	5,773	5,763	0.2%	3,912	3,738	1,654	1,808	17	3	191	214
Montana	9,683	8,853	9.4%	4,326	3,329	5,346	5,514	0	0	11	9
Nevada	10,976	11,914	-7.9%	7,391	8,889	3,475	2,880	41	40	69	106
New Mexico	11,049	9,442	17.0%	8,260	6,617	2,752	2,784	36	32	1	NM
Utah	10,632	11,124	-4.4%	9,171	10,272	1,221	570	31	NM	210	258
Wyoming	14,476	14,592	-0.8%	12,999	12,982	1,002	1,128	0	0	475	483
Pacific Contiguous	124,830	116,756	6.9%	83,699	74,993	35,124	35,820	940	873	5,067	5,069
California	63,716	57,215	11.4%	30,257	23,933	28,202	28,081	900	831	4,357	4,370
Oregon	20,216	21,294	-5.1%	16,224	16,423	3,757	4,655	26	27	209	189
Washington	40,899	38,247	6.9%	37,218	34,637	3,165	3,085	14	NM	502	510
Pacific Noncontiguous	4,875	4,914	-0.8%	3,300	3,318	1,240	1,247	190	182	145	166
Alaska	1,731	1,896	-8.7%	1,560	1,717	58	79	NM	56	42	43
Hawaii	3,144	3,018	4.2%	1,740	1,601	1,182	1,168	120	126	102	123
U.S. Total	1,241,098	1,263,498	-1.8%	706,372	715,285	483,727	495,809	3,940	4,067	47,059	48,337

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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	57	128	-55.7%	1	4	53	123	0	0	NM	NM
Connecticut	-2	-2	-15.4%	0	0	-2	-2	0	0	0	0
Maine	NM	4	NM	0	0	3	4	0	0	NM	0
Massachusetts	52	123	-57.8%	0	0	52	121	0	0	0	NM
New Hampshire	1	4	-86.2%	1	4	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,392	3,537	-4.1%	0	0	3,349	3,476	0	0	43	61
New Jersey	69	87	-20.5%	0	0	69	87	0	0	0	0
New York	44	49	-9.9%	0	0	22	17	0	0	22	32
Pennsylvania	3,278	3,401	-3.6%	0	0	3,258	3,372	0	0	20	29
East North Central	20,641	18,170	13.6%	12,237	10,331	8,215	7,657	NM	6	184	176
Illinois	4,182	4,136	1.1%	243	213	3,794	3,802	NM	4	142	116
Indiana	4,708	5,120	-8.0%	4,616	4,922	91	197	1	NM	0	NM
Michigan	3,729	2,246	66.0%	3,687	2,203	37	36	0	1	NM	NM
Ohio	5,830	4,892	19.2%	1,534	1,252	4,292	3,622	0	0	NM	18
Wisconsin	2,191	1,776	23.4%	2,157	1,741	0	0	0	0	34	35
West North Central	11,540	10,281	12.2%	11,366	10,090	0	NM	6	12	168	178
Iowa	1,716	830	106.7%	1,611	709	0	0	5	NM	100	111
Kansas	755	1,175	-35.7%	755	1,175	0	0	0	0	0	0
Minnesota	1,165	1,228	-5.1%	1,125	1,190	0	0	0	NM	40	37
Missouri	4,879	4,203	16.1%	4,878	4,197	0	NM	1	2	0	NM
Nebraska	1,128	1,165	-3.1%	1,105	1,142	0	0	0	0	23	22
North Dakota	1,811	1,529	18.5%	1,807	1,524	0	0	0	0	NM	NM
South Dakota	85	152	-44.0%	85	152	0	0	0	0	0	0
South Atlantic	15,644	13,830	13.1%	14,155	12,431	1,425	1,314	3	NM	60	82
Delaware	8	0	--	0	0	8	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,241	2,451	32.2%	3,228	2,363	0	80	0	0	13	NM
Georgia	2,787	1,623	71.8%	2,774	1,611	0	0	0	0	13	12
Maryland	156	689	-77.4%	0	0	151	683	0	0	5	6
North Carolina	2,595	1,383	87.6%	2,570	1,353	8	NM	1	2	16	NM
South Carolina	1,647	1,530	7.7%	1,646	1,521	0	0	0	0	1	9
Virginia	761	898	-15.2%	730	870	16	NM	2	NM	13	24
West Virginia	4,449	5,256	-15.4%	3,207	4,715	1,243	529	0	0	0	13
East South Central	8,183	8,347	-2.0%	7,910	8,208	208	56	0	0	65	83
Alabama	2,192	1,976	10.9%	2,188	1,970	0	0	0	0	4	6
Kentucky	3,841	4,560	-15.8%	3,841	4,560	0	0	0	0	0	0
Mississippi	377	88	329.0%	169	32	208	56	0	0	0	0
Tennessee	1,774	1,723	2.9%	1,712	1,646	0	0	0	0	62	77
West South Central	12,622	8,816	43.2%	5,127	4,621	7,466	4,166	0	0	29	NM
Arkansas	1,597	1,194	33.7%	1,593	919	0	273	0	0	3	2
Louisiana	536	582	-7.8%	155	361	381	221	0	0	0	0
Oklahoma	778	706	10.3%	634	645	118	34	0	0	26	NM
Texas	9,711	6,334	53.3%	2,744	2,696	6,966	3,638	0	0	0	0
Mountain	9,544	8,737	9.2%	8,605	7,782	912	883	0	0	27	72
Arizona	1,828	1,676	9.1%	1,828	1,676	0	0	0	0	0	0
Colorado	1,822	1,964	-7.2%	1,821	1,960	0	NM	0	0	1	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	784	818	-4.1%	18	NM	766	807	0	0	0	NM
Nevada	70	71	-2.6%	-2	52	72	19	0	0	0	0
New Mexico	1,400	686	104.0%	1,400	686	0	0	0	0	0	0
Utah	1,344	1,262	6.5%	1,329	1,197	15	NM	0	0	0	48
Wyoming	2,292	2,256	1.6%	2,210	2,200	59	NM	0	0	23	19
Pacific Contiguous	22	29	-22.4%	0	0	0	0	0	0	22	29
California	19	26	-25.2%	0	0	0	0	0	0	19	26
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	3	4.2%	0	0	0	0	0	0	3	3
Pacific Noncontiguous	145	147	-1.1%	NM	10	115	126	NM	8	0	NM
Alaska	NM	27	NM	NM	10	NM	NM	NM	8	0	0
Hawaii	108	119	-9.4%	0	0	108	117	0	0	0	NM
U.S. Total	81,789	72,022	13.6%	59,423	53,477	21,743	17,802	22	29	601	713

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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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	1,302	1,150	13.2%	102	152	1,186	988	0	0	NM	10
Connecticut	76	52	45.2%	0	0	76	52	0	0	0	0
Maine	NM	26	NM	0	0	26	22	0	0	NM	3
Massachusetts	1,084	920	17.9%	0	0	1,084	914	0	0	0	NM
New Hampshire	102	152	-33.2%	102	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	15,966	17,260	-7.5%	0	0	15,761	17,004	0	0	205	256
New Jersey	404	418	-3.3%	0	0	404	418	0	0	0	0
New York	383	467	-18.1%	0	0	277	361	0	0	106	106
Pennsylvania	15,179	16,375	-7.3%	0	0	15,080	16,225	0	0	99	150
East North Central	90,973	82,857	9.8%	53,617	50,177	36,542	31,846	NM	42	791	792
Illinois	18,682	17,505	6.7%	1,407	1,021	16,667	15,971	NM	15	591	497
Indiana	22,976	22,877	0.4%	22,203	21,350	768	1,516	6	11	0	NM
Michigan	13,905	12,902	7.8%	13,729	12,706	153	140	0	15	NM	41
Ohio	24,332	20,296	19.9%	5,361	5,999	18,954	14,220	0	0	NM	77
Wisconsin	11,079	9,277	19.4%	10,918	9,100	0	0	0	0	162	177
West North Central	57,508	54,941	4.7%	56,636	53,953	1	NM	46	56	825	924
Iowa	7,173	6,753	6.2%	6,676	6,142	0	0	30	38	467	572
Kansas	5,616	6,106	-8.0%	5,616	6,106	0	0	0	0	0	0
Minnesota	7,270	7,085	2.6%	7,049	6,896	0	0	1	NM	220	188
Missouri	21,638	19,604	10.4%	21,623	19,572	1	NM	15	18	0	NM
Nebraska	6,549	6,436	1.8%	6,435	6,310	0	0	0	0	114	126
North Dakota	8,633	8,259	4.5%	8,609	8,229	0	0	0	0	NM	30
South Dakota	627	698	-10.1%	627	698	0	0	0	0	0	0
South Atlantic	64,273	67,312	-4.5%	57,819	58,684	6,128	8,183	24	28	302	416
Delaware	64	210	-69.4%	0	0	64	210	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,434	9,332	33.2%	12,377	9,170	0	105	0	0	57	57
Georgia	9,157	9,256	-1.1%	9,085	9,188	0	0	0	0	71	68
Maryland	1,727	3,992	-56.7%	0	0	1,701	3,967	0	0	26	25
North Carolina	9,933	9,021	10.1%	9,805	8,903	44	NM	18	24	67	56
South Carolina	5,809	6,752	-14.0%	5,801	6,704	0	0	0	0	8	48
Virginia	3,702	5,428	-31.8%	3,483	5,167	140	152	7	NM	72	105
West Virginia	21,446	23,321	-8.0%	17,268	19,551	4,179	3,710	0	0	0	59
East South Central	38,135	39,941	-4.5%	37,021	38,752	852	829	0	0	262	360
Alabama	9,722	9,116	6.7%	9,700	9,084	0	0	0	0	22	32
Kentucky	19,506	21,367	-8.7%	19,506	21,367	0	0	0	0	0	0
Mississippi	1,530	1,402	9.1%	678	573	852	829	0	0	0	0
Tennessee	7,377	8,057	-8.4%	7,137	7,729	0	0	0	0	240	327
West South Central	54,108	39,271	37.8%	26,552	21,097	27,434	18,033	0	0	122	141
Arkansas	7,779	5,936	31.0%	7,191	4,524	571	1,394	0	0	17	18
Louisiana	3,555	3,209	10.8%	1,862	2,396	1,693	813	0	0	0	0
Oklahoma	4,844	4,562	6.2%	4,324	3,936	415	503	0	0	105	123
Texas	37,929	25,564	48.4%	13,175	10,241	24,754	15,323	0	0	0	0
Mountain	49,955	46,173	8.2%	44,818	40,993	5,010	4,962	0	0	126	217
Arizona	9,264	7,862	17.8%	9,264	7,862	0	0	0	0	0	0
Colorado	9,441	9,012	4.8%	9,436	8,993	0	NM	0	0	4	NM
Idaho	NM	23	NM	0	0	0	0	0	0	NM	23
Montana	4,435	4,475	-0.9%	96	NM	4,336	4,414	0	0	2	NM
Nevada	553	468	18.1%	241	254	311	214	0	0	0	0
New Mexico	6,632	4,669	42.0%	6,632	4,669	0	0	0	0	0	0
Utah	7,334	7,462	-1.7%	7,214	7,285	120	NM	0	0	0	73
Wyoming	12,278	12,202	0.6%	11,935	11,872	242	212	0	0	101	117
Pacific Contiguous	1,470	802	83.2%	554	308	810	372	0	0	107	122
California	98	110	-11.0%	0	0	0	0	0	0	98	110
Oregon	554	308	79.6%	554	308	0	0	0	0	0	0
Washington	819	384	113.1%	0	0	810	372	0	0	9	12
Pacific Noncontiguous	563	722	-22.1%	NM	127	434	552	NM	37	0	NM
Alaska	NM	222	NM	NM	127	NM	58	NM	37	0	0
Hawaii	395	500	-21.0%	0	0	395	494	0	0	0	NM
U.S. Total	374,253	350,429	6.8%	277,212	264,244	94,159	82,778	128	164	2,754	3,244

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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	11	11	-0.6%	2	4	5	2	3	NM	NM	NM
Connecticut	NM	2	NM	0	1	NM	1	NM	NM	0	NM
Maine	NM	NM	NM	0	NM	0	NM	0	NM	NM	NM
Massachusetts	4	NM	NM	NM	1	NM	NM	2	NM	0	NM
New Hampshire	2	3	-31.6%	1	2	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	1	1	NM	NM	0	NM	0	0
Vermont	0	NM	NM	0	NM	0	0	0	NM	0	0
Middle Atlantic	29	47	-37.7%	NM	NM	17	36	2	2	5	5
New Jersey	NM	NM	NM	NM	NM	NM	NM	0	NM	0	NM
New York	16	20	-23.1%	NM	NM	NM	11	NM	2	5	4
Pennsylvania	11	25	-55.1%	0	NM	11	24	0	NM	NM	NM
East North Central	35	39	-11.8%	24	23	10	13	0	NM	1	2
Illinois	4	6	-37.6%	0	0	4	5	0	0	0	0
Indiana	12	11	10.9%	12	9	0	0	0	NM	1	2
Michigan	6	8	-20.4%	6	7	0	0	0	NM	NM	NM
Ohio	11	13	-11.1%	5	5	6	8	0	NM	0	NM
Wisconsin	NM	2	NM	NM	2	0	0	0	NM	NM	NM
West North Central	23	6	304.1%	23	5	0	0	0	NM	0	NM
Iowa	6	-1	-650.7%	6	-1	NM	NM	0	NM	0	NM
Kansas	7	NM	NM	7	NM	0	0	0	0	0	0
Minnesota	2	1	59.9%	2	1	0	0	0	NM	0	NM
Missouri	5	4	29.4%	5	4	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	1	1	8.8%	1	1	0	0	0	NM	0	NM
South Dakota	NM	0	NM	NM	0	0	NM	NM	NM	0	0
South Atlantic	166	107	55.2%	146	78	14	22	1	NM	5	6
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	69	38	79.0%	68	37	NM	NM	0	0	NM	NM
Georgia	12	15	-22.8%	7	13	NM	NM	0	NM	NM	2
Maryland	4	12	-66.0%	NM	1	4	11	0	NM	0	NM
North Carolina	34	14	145.2%	29	12	NM	2	0	NM	NM	NM
South Carolina	NM	NM	NM	NM	NM	0	NM	0	NM	1	1
Virginia	22	16	42.9%	19	NM	2	11	1	NM	NM	1
West Virginia	10	9	8.7%	10	9	0	0	0	0	0	0
East South Central	12	15	-17.2%	11	14	NM	NM	0	NM	NM	NM
Alabama	3	NM	NM	2	0	NM	NM	0	0	NM	NM
Kentucky	7	5	61.0%	7	5	0	0	0	0	0	0
Mississippi	NM	NM	NM	NM	NM	0	0	0	0	0	0
Tennessee	3	8	-61.9%	3	8	0	NM	0	NM	0	NM
West South Central	9	11	-15.9%	6	7	3	4	0	NM	0	NM
Arkansas	1	1	31.8%	1	1	0	0	0	0	0	NM
Louisiana	NM	0	NM	NM	0	0	0	0	0	0	0
Oklahoma	1	1	-10.6%	1	1	0	0	0	NM	0	NM
Texas	6	9	-34.2%	3	5	3	4	0	NM	0	NM
Mountain	18	27	-32.3%	17	25	1	1	0	NM	0	NM
Arizona	4	10	-56.7%	4	10	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	1	1	-43.5%	NM	NM	1	1	0	0	0	0
Nevada	0	1	-79.1%	0	1	0	0	0	0	0	0
New Mexico	3	5	-42.6%	3	5	0	0	0	0	0	NM
Utah	5	4	27.0%	5	4	0	NM	0	0	0	NM
Wyoming	5	5	-15.7%	5	5	0	0	0	0	0	NM
Pacific Contiguous	5	4	6.7%	3	2	1	1	0	NM	1	NM
California	4	3	5.2%	3	2	1	1	0	NM	0	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	1	NM	NM	NM	NM	NM	NM	0	NM	1	NM
Pacific Noncontiguous	588	527	11.6%	434	406	134	113	0	NM	19	8
Alaska	55	54	1.6%	53	51	0	0	NM	NM	3	3
Hawaii	532	472	12.7%	382	355	134	113	0	0	16	5
U.S. Total	897	794	12.9%	670	568	186	193	8	8	34	25

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	116	180	-35.5%	12	19	78	135	20	17	NM	8
Connecticut	NM	13	NM	2	2	NM	7	NM	NM	1	NM
Maine	NM	83	NM	0	NM	13	76	1	NM	NM	6
Massachusetts	58	64	-9.6%	NM	9	NM	47	10	8	0	NM
New Hampshire	11	7	45.3%	4	4	NM	NM	6	NM	0	NM
Rhode Island	NM	13	NM	3	4	NM	6	2	NM	0	0
Vermont	1	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	238	477	-50.2%	NM	146	148	297	13	11	18	23
New Jersey	NM	55	NM	NM	NM	NM	53	0	NM	0	NM
New York	138	330	-58.2%	NM	145	NM	157	NM	10	18	18
Pennsylvania	72	92	-22.4%	0	NM	70	87	1	NM	NM	4
East North Central	141	178	-21.1%	86	110	48	60	1	2	5	7
Illinois	18	28	-36.7%	1	2	17	25	0	1	0	0
Indiana	35	44	-19.2%	32	39	0	NM	0	NM	3	5
Michigan	24	35	-33.3%	22	34	0	0	1	NM	NM	0
Ohio	55	62	-11.7%	22	27	32	33	0	NM	1	NM
Wisconsin	NM	9	NM	NM	8	0	2	0	NM	NM	NM
West North Central	100	61	64.4%	98	58	1	1	0	NM	0	NM
Iowa	27	16	75.2%	27	15	NM	NM	0	NM	0	NM
Kansas	17	6	185.7%	17	6	0	0	0	0	0	0
Minnesota	9	6	48.5%	7	4	0	1	0	NM	0	NM
Missouri	20	22	-10.6%	20	22	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	16	9	83.4%	16	9	0	0	0	NM	0	NM
South Dakota	NM	1	NM	NM	1	0	NM	NM	NM	0	0
South Atlantic	664	795	-16.4%	533	524	105	236	7	NM	19	32
Delaware	NM	40	NM	0	NM	NM	39	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	208	116	78.8%	204	108	NM	NM	0	0	NM	6
Georgia	36	65	-45.0%	18	30	NM	20	1	1	NM	14
Maryland	28	87	-67.9%	NM	4	27	82	0	NM	1	NM
North Carolina	144	127	13.6%	123	89	NM	35	0	NM	NM	NM
South Carolina	NM	55	NM	NM	47	0	NM	0	NM	4	7
Virginia	147	270	-45.4%	99	210	41	57	6	NM	NM	NM
West Virginia	43	34	24.3%	42	34	0	0	0	0	0	0
East South Central	78	86	-9.1%	72	75	NM	5	0	NM	NM	6
Alabama	15	22	-32.4%	9	12	NM	5	0	0	NM	NM
Kentucky	35	29	20.4%	35	29	0	0	0	0	0	0
Mississippi	NM	7	NM	NM	6	0	0	0	0	0	1
Tennessee	26	29	-9.2%	25	28	0	NM	0	NM	1	NM
West South Central	48	50	-2.9%	23	37	24	11	0	NM	1	NM
Arkansas	15	11	28.8%	4	10	11	1	0	0	0	NM
Louisiana	NM	7	NM	NM	6	0	2	0	0	0	0
Oklahoma	5	6	-13.4%	5	5	0	0	0	NM	0	0
Texas	23	25	-7.3%	10	16	13	8	0	NM	0	NM
Mountain	77	77	0.0%	69	72	7	5	0	NM	0	NM
Arizona	20	23	-14.4%	20	23	0	0	0	NM	0	0
Colorado	NM	3	NM	NM	3	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	6	4	49.6%	NM	NM	6	4	0	0	0	0
Nevada	1	3	-66.3%	0	2	1	1	0	0	0	0
New Mexico	17	21	-22.4%	17	21	0	0	0	0	0	NM
Utah	16	9	75.0%	15	9	1	NM	0	0	0	NM
Wyoming	15	13	13.2%	15	13	0	0	0	0	0	NM
Pacific Contiguous	30	17	74.5%	15	11	5	2	0	NM	9	3
California	18	13	45.3%	11	10	1	2	0	NM	6	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	9	4	98.0%	NM	NM	NM	1	0	NM	3	3
Pacific Noncontiguous	2,468	2,273	8.6%	1,962	1,804	420	410	4	3	82	56
Alaska	330	250	31.9%	312	236	0	0	NM	2	16	13
Hawaii	2,138	2,022	5.7%	1,650	1,568	420	410	1	1	66	43
U.S. Total	3,959	4,194	-5.6%	2,930	2,857	837	1,163	47	37	146	138

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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	23	NM	0	0	0	0	0	0	NM	23
New Jersey	7	NM	NM	0	0	0	0	0	0	7	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	16	NM	0	0	0	0	0	0	NM	16
East North Central	162	257	-37.0%	68	165	87	70	0	0	7	22
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	102	-100.0%	0	102	0	0	0	0	0	0
Michigan	75	71	5.0%	68	58	0	0	0	0	7	NM
Ohio	87	71	22.2%	0	0	87	70	0	0	0	NM
Wisconsin	0	12	-97.7%	0	5	0	0	0	0	0	8
West North Central	0	NM	NM	0	0	0	0	0	0	0	NM
Iowa	0	NM	NM	0	0	0	0	0	0	0	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	23	218	-89.6%	23	210	0	0	0	0	0	7
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	210	-89.3%	23	210	0	0	0	0	0	0
Georgia	0	7	-100.0%	0	0	0	0	0	0	0	7
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	48	96	-50.3%	48	96	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	48	96	-50.3%	48	96	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	154	411	-62.6%	121	387	0	0	0	0	33	25
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	146	404	-63.9%	121	387	0	0	0	0	25	17
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	8	6.3%	0	0	0	0	0	0	8	8
Mountain	34	27	23.9%	0	0	34	27	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	34	27	23.9%	0	0	34	27	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	435	1,037	-58.1%	260	858	121	97	0	0	54	81

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	NM	82	NM	0	0	0	0	0	0	NM	82
New Jersey	28	NM	NM	0	0	0	0	0	0	28	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	57	NM	0	0	0	0	0	0	NM	57
East North Central	636	979	-35.1%	264	669	337	231	0	0	34	80
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	288	210	36.7%	253	159	0	3	0	0	34	48
Ohio	337	233	44.4%	0	0	337	228	0	0	0	NM
Wisconsin	11	38	-71.1%	11	12	0	0	0	0	0	26
West North Central	18	NM	NM	0	0	0	0	3	4	15	NM
Iowa	18	NM	NM	0	0	0	0	3	4	15	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	264	759	-65.2%	220	729	0	0	0	0	43	30
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	220	729	-69.8%	220	729	0	0	0	0	0	0
Georgia	43	30	46.1%	0	0	0	0	0	0	43	30
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	250	344	-27.3%	250	344	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	250	344	-27.3%	250	344	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	1,447	1,507	-3.9%	1,343	1,407	0	0	0	0	104	100
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,415	1,466	-3.5%	1,343	1,407	0	0	0	0	72	60
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	33	40	-19.1%	0	0	0	0	0	0	33	40
Mountain	140	145	-4.0%	0	0	140	145	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	140	145	-4.0%	0	0	140	145	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,830	3,840	-26.3%	2,078	3,148	476	376	3	4	273	312

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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	4,010	4,371	-8.3%	NM	27	3,846	4,187	60	69	87	87
Connecticut	1,056	1,655	-36.2%	3	0	989	1,599	26	25	37	31
Maine	130	244	-46.7%	0	0	NM	201	2	NM	NM	41
Massachusetts	1,932	1,576	22.6%	NM	24	1,870	1,501	28	37	20	NM
New Hampshire	506	509	-0.6%	0	4	504	503	0	NM	3	NM
Rhode Island	386	387	-0.3%	0	0	383	383	3	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	8,759	11,844	-26.0%	650	850	7,918	10,780	69	88	122	126
New Jersey	2,059	3,256	-36.8%	9	NM	2,011	3,213	15	NM	25	NM
New York	3,252	4,100	-20.7%	641	844	2,549	3,169	43	62	19	25
Pennsylvania	3,448	4,488	-23.2%	0	NM	3,359	4,398	11	NM	78	79
East North Central	5,880	8,533	-31.1%	2,547	3,369	3,007	4,878	99	115	227	171
Illinois	650	1,166	-44.2%	NM	112	559	995	NM	20	48	38
Indiana	1,194	1,093	9.2%	947	722	131	316	14	15	102	40
Michigan	1,687	2,775	-39.2%	509	969	1,103	1,698	40	56	35	52
Ohio	1,577	2,216	-28.8%	424	452	1,119	1,748	18	NM	16	NM
Wisconsin	772	1,283	-39.8%	647	1,113	96	121	3	NM	27	36
West North Central	1,320	1,923	-31.4%	1,131	1,523	123	314	23	33	43	54
Iowa	256	132	94.2%	218	103	NM	NM	8	NM	30	NM
Kansas	223	128	73.9%	222	119	0	0	0	0	NM	NM
Minnesota	451	840	-46.4%	374	670	63	139	7	NM	NM	NM
Missouri	207	617	-66.4%	135	430	NM	175	9	10	4	NM
Nebraska	NM	60	NM	NM	56	0	0	0	NM	0	3
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	0	NM
South Dakota	NM	93	NM	NM	93	0	0	0	0	0	0
South Atlantic	23,719	24,069	-1.5%	19,258	19,279	4,082	4,414	39	51	340	326
Delaware	346	713	-51.4%	0	NM	287	617	0	0	59	92
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	12,511	13,146	-4.8%	11,659	12,069	736	958	2	NM	114	114
Georgia	3,529	4,244	-16.8%	2,503	2,826	965	1,377	0	0	61	41
Maryland	562	405	38.5%	0	0	518	359	36	40	7	NM
North Carolina	2,518	3,194	-21.2%	2,126	2,722	384	453	1	1	NM	NM
South Carolina	1,383	797	73.4%	1,199	626	171	162	0	NM	13	9
Virginia	2,811	1,460	92.6%	1,767	1,014	995	401	0	NM	50	44
West Virginia	59	106	-44.2%	4	18	26	86	0	0	29	2
East South Central	8,839	8,151	8.4%	5,951	5,392	2,705	2,597	7	NM	175	152
Alabama	4,069	3,701	9.9%	1,519	1,236	2,465	2,378	0	0	85	88
Kentucky	530	581	-8.8%	505	566	7	0	0	0	18	NM
Mississippi	3,371	3,155	6.9%	3,107	2,906	231	219	0	NM	34	29
Tennessee	869	714	21.7%	821	684	2	0	7	NM	39	19
West South Central	22,859	26,678	-14.3%	6,396	8,038	11,276	13,266	50	74	5,137	5,299
Arkansas	1,446	1,472	-1.8%	344	311	1,080	1,132	0	NM	22	28
Louisiana	4,569	5,154	-11.3%	2,102	2,631	508	419	NM	NM	1,956	2,092
Oklahoma	2,212	2,722	-18.7%	1,417	1,894	776	812	0	NM	19	NM
Texas	14,631	17,329	-15.6%	2,533	3,202	8,911	10,903	47	60	3,141	3,164
Mountain	5,598	7,477	-25.1%	4,349	6,160	1,098	1,170	35	29	116	119
Arizona	1,892	2,484	-23.8%	1,426	1,915	454	559	11	NM	0	0
Colorado	956	1,194	-20.0%	825	1,057	129	136	0	0	2	NM
Idaho	187	87	114.2%	107	NM	70	67	3	0	7	NM
Montana	33	NM	NM	NM	NM	4	NM	0	0	0	0
Nevada	1,600	2,069	-22.7%	1,405	1,868	172	171	5	NM	18	25
New Mexico	548	735	-25.5%	286	502	253	224	9	NM	0	0
Utah	318	789	-59.7%	259	745	16	NM	7	NM	36	31
Wyoming	65	72	-10.4%	NM	NM	0	NM	0	0	53	55
Pacific Contiguous	5,165	6,333	-18.5%	2,041	1,814	2,185	3,465	146	144	793	910
California	4,249	5,585	-23.9%	1,465	1,533	1,865	3,021	139	136	780	895
Oregon	345	425	-18.8%	200	120	133	291	5	NM	NM	8
Washington	571	323	76.7%	376	162	187	152	2	NM	NM	7
Pacific Noncontiguous	86	182	-52.5%	80	175	0	0	1	0	6	NM
Alaska	86	182	-52.5%	80	175	0	0	1	0	6	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	86,234	99,561	-13.4%	42,419	46,627	36,240	45,069	529	615	7,046	7,250

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	15,294	15,481	-1.2%	NM	51	14,545	14,750	289	309	390	371
Connecticut	4,994	5,969	-16.3%	15	0	4,698	5,699	122	123	159	147
Maine	572	1,075	-46.8%	0	0	NM	907	9	NM	NM	160
Massachusetts	7,324	5,685	28.8%	NM	48	7,048	5,428	140	155	81	54
New Hampshire	987	1,093	-9.7%	0	4	972	1,073	5	NM	10	NM
Rhode Island	1,416	1,659	-14.7%	0	0	1,403	1,643	12	NM	0	0
Vermont	1	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	40,134	47,326	-15.2%	3,011	3,278	36,220	43,048	326	376	577	623
New Jersey	8,561	12,569	-31.9%	26	NM	8,350	12,371	64	67	122	109
New York	14,731	15,701	-6.2%	2,984	3,255	11,448	12,059	215	267	84	120
Pennsylvania	16,842	19,055	-11.6%	1	NM	16,422	18,618	48	42	371	394
East North Central	27,842	36,536	-23.8%	11,683	15,668	14,727	19,723	460	465	972	680
Illinois	3,465	4,960	-30.1%	NM	375	3,006	4,302	NM	109	203	174
Indiana	5,800	6,116	-5.2%	4,511	4,703	823	1,186	57	58	409	169
Michigan	7,345	9,288	-20.9%	2,060	2,825	4,925	6,057	187	213	174	193
Ohio	7,884	10,300	-23.5%	2,050	2,394	5,691	7,848	80	42	62	NM
Wisconsin	3,348	5,871	-43.0%	2,921	5,371	282	331	21	43	124	127
West North Central	4,795	6,440	-25.5%	4,040	5,306	518	857	77	105	161	172
Iowa	700	851	-17.7%	595	746	NM	NM	21	32	84	73
Kansas	555	314	76.6%	543	293	0	0	0	0	NM	NM
Minnesota	1,905	3,068	-37.9%	1,610	2,550	215	417	34	46	NM	55
Missouri	948	1,549	-38.8%	605	1,074	NM	440	22	26	17	NM
Nebraska	NM	95	NM	NM	89	0	0	1	NM	0	5
North Dakota	NM	257	NM	NM	247	0	0	0	0	1	NM
South Dakota	NM	307	NM	NM	307	0	0	0	0	0	0
South Atlantic	93,923	96,530	-2.7%	78,470	79,692	13,838	15,450	178	200	1,438	1,188
Delaware	1,501	2,034	-26.2%	0	NM	1,206	1,728	0	0	295	295
District of Columbia	10	NM	NM	0	0	0	0	10	NM	0	0
Florida	44,644	47,771	-6.5%	42,342	44,127	1,838	3,202	9	NM	454	428
Georgia	15,452	16,351	-5.5%	11,633	12,566	3,591	3,609	0	0	228	176
Maryland	1,835	1,350	35.9%	0	0	1,652	1,164	153	159	30	26
North Carolina	12,173	13,639	-10.8%	10,560	12,147	1,577	1,429	3	4	NM	60
South Carolina	4,575	4,105	11.5%	3,956	3,183	574	891	0	NM	45	28
Virginia	13,486	10,993	22.7%	9,939	7,627	3,344	3,196	2	NM	200	168
West Virginia	246	269	-8.4%	38	31	56	232	0	0	152	7
East South Central	33,200	38,196	-13.1%	21,875	24,736	10,555	12,752	50	49	720	659
Alabama	14,891	16,987	-12.3%	5,396	5,296	9,151	11,326	0	0	344	365
Kentucky	1,446	2,521	-42.6%	1,277	2,371	85	73	0	0	84	77
Mississippi	13,446	15,420	-12.8%	11,994	13,930	1,316	1,352	3	NM	133	135
Tennessee	3,417	3,268	4.6%	3,207	3,141	3	0	47	46	160	81
West South Central	83,145	107,371	-22.6%	20,956	32,151	41,016	52,855	265	274	20,908	22,091
Arkansas	4,003	5,099	-21.5%	843	2,067	3,057	2,918	0	NM	103	114
Louisiana	17,400	21,664	-19.7%	8,137	10,814	1,439	2,131	NM	56	7,776	8,664
Oklahoma	7,363	10,331	-28.7%	4,703	7,277	2,583	2,991	0	NM	77	59
Texas	54,379	70,277	-22.6%	7,273	11,993	33,937	44,815	217	214	12,952	13,255
Mountain	21,331	28,392	-24.9%	16,909	22,278	3,799	5,509	138	105	484	501
Arizona	4,675	8,086	-42.2%	3,588	5,603	1,044	2,448	43	NM	0	0
Colorado	3,511	4,056	-13.4%	2,952	3,475	553	575	0	0	6	NM
Idaho	963	1,101	-12.5%	541	541	373	527	14	0	35	33
Montana	137	209	-34.1%	NM	186	23	NM	0	0	2	0
Nevada	7,405	8,758	-15.5%	6,683	8,042	633	594	20	NM	69	105
New Mexico	2,625	3,143	-16.5%	1,477	1,795	1,113	1,308	35	NM	1	NM
Utah	1,759	2,777	-36.7%	1,520	2,591	59	NM	26	NM	154	130
Wyoming	254	262	-3.0%	NM	NM	0	NM	0	0	218	218
Pacific Contiguous	28,638	34,259	-16.4%	11,350	12,643	13,187	17,657	619	525	3,482	3,433
California	22,568	26,847	-15.9%	8,102	9,170	10,461	13,808	594	496	3,410	3,375
Oregon	3,165	4,271	-25.9%	1,362	1,638	1,755	2,591	17	NM	NM	20
Washington	2,905	3,141	-7.5%	1,886	1,836	972	1,258	8	NM	NM	38
Pacific Noncontiguous	475	798	-40.5%	448	770	0	0	2	1	25	27
Alaska	475	798	-40.5%	448	770	0	0	2	1	25	27
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	348,778	411,329	-15.2%	168,812	196,574	148,406	182,601	2,404	2,409	29,157	29,745

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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	54	71	-24.2%	0	0	0	0	0	0	54	71
New Jersey	19	20	-4.6%	0	0	0	0	0	0	19	20
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	35	51	-31.7%	0	0	0	0	0	0	35	51
East North Central	417	409	1.9%	18	8	145	191	0	0	254	210
Illinois	18	25	-29.6%	0	0	0	0	0	0	18	25
Indiana	219	167	31.0%	0	NM	0	0	0	0	219	165
Michigan	106	134	-20.7%	18	6	89	128	0	0	0	0
Ohio	74	83	-10.9%	0	0	56	63	0	0	18	20
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	NM	NM	0	0	0	0	0	0	0	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	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	26	32	-17.8%	0	0	0	0	0	0	26	32
Delaware	24	30	-20.4%	0	0	0	0	0	0	24	30
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	46.9%	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	2	2	17.0%	0	0	0	0	0	0	2	2
East South Central	3	NM	NM	0	0	0	0	0	0	3	NM
Alabama	2	NM	NM	0	0	0	0	0	0	2	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	-15.5%	0	0	0	0	0	0	1	1
West South Central	393	423	-7.0%	0	0	117	93	0	0	276	329
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	175	230	-23.9%	0	0	0	0	0	0	175	230
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	218	192	13.1%	0	0	117	93	0	0	100	99
Mountain	35	39	-10.1%	0	0	1	1	0	0	33	38
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	135.0%	0	0	1	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	NM	NM	0	0	0	0	0	0	1	NM
Wyoming	33	37	-12.1%	0	0	0	0	0	0	33	37
Pacific Contiguous	151	164	-7.9%	0	0	21	36	0	0	130	128
California	130	128	1.4%	0	0	0	0	0	0	130	128
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	21	36	-41.3%	0	0	21	36	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	1,084	1,149	-5.7%	18	8	285	321	0	0	781	819

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	246	273	-9.9%	0	0	0	0	0	0	246	273
New Jersey	75	99	-24.1%	0	0	0	0	0	0	75	99
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	170	173	-1.8%	0	0	0	0	0	0	170	173
East North Central	1,928	1,846	4.4%	75	22	758	841	0	0	1,094	983
Illinois	65	124	-47.0%	0	0	0	4	0	0	65	120
Indiana	975	785	24.1%	11	NM	0	0	0	0	963	778
Michigan	560	548	2.1%	64	15	496	533	0	0	0	0
Ohio	327	389	-15.8%	0	0	262	304	0	0	65	85
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	13	21	-38.6%	0	0	0	0	0	0	13	21
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	13	21	-38.6%	0	0	0	0	0	0	13	21
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	137	82	67.7%	0	0	0	0	0	0	137	82
Delaware	126	73	71.9%	0	0	0	0	0	0	126	73
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	1	20.9%	0	0	0	0	0	0	2	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	9	7	32.6%	0	0	0	0	0	0	9	7
East South Central	12	15	-20.2%	0	0	0	0	0	0	12	15
Alabama	8	NM	NM	0	0	0	0	0	0	8	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4	5	-13.2%	0	0	0	0	0	0	4	5
West South Central	1,533	1,746	-12.2%	0	0	450	407	0	0	1,084	1,339
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	677	904	-25.2%	0	0	0	0	0	0	677	904
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	857	842	1.8%	0	0	450	407	0	0	407	435
Mountain	145	156	-7.2%	0	0	5	5	0	0	139	151
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	5	4	20.7%	0	0	5	4	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	5	NM	NM	0	0	0	0	0	0	5	NM
Wyoming	134	148	-9.6%	0	0	0	0	0	0	134	148
Pacific Contiguous	527	667	-20.9%	0	0	103	138	0	0	424	529
California	424	529	-19.9%	0	0	0	0	0	0	424	529
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	103	138	-24.9%	0	0	103	138	0	0	0	0
Pacific Noncontiguous	16	16	0.0%	0	0	0	0	0	0	16	16
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	16	16	0.0%	0	0	0	0	0	0	16	16
U.S. Total	4,557	4,821	-5.5%	75	22	1,316	1,391	0	0	3,165	3,408

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	1,023	2,261	-54.8%	0	0	1,023	2,261	0	0	0	0
Connecticut	888	871	2.0%	0	0	888	871	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	135	489	-72.4%	0	0	135	489	0	0	0	0
New Hampshire	0	901	-100.0%	0	0	0	901	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	11,694	10,896	7.3%	0	0	11,694	10,896	0	0	0	0
New Jersey	2,562	2,461	4.1%	0	0	2,562	2,461	0	0	0	0
New York	2,880	2,510	14.7%	0	0	2,880	2,510	0	0	0	0
Pennsylvania	6,253	5,925	5.5%	0	0	6,253	5,925	0	0	0	0
East North Central	12,128	11,421	6.2%	1,903	1,618	10,225	9,803	0	0	0	0
Illinois	7,920	7,532	5.1%	0	0	7,920	7,532	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,150	2,203	-2.4%	1,903	1,618	247	586	0	0	0	0
Ohio	1,454	914	59.1%	0	0	1,454	914	0	0	0	0
Wisconsin	605	772	-21.6%	0	0	605	772	0	0	0	0
West North Central	3,655	3,511	4.1%	3,217	3,074	438	437	0	0	0	0
Iowa	438	437	0.2%	0	0	438	437	0	0	0	0
Kansas	874	879	-0.5%	874	879	0	0	0	0	0	0
Minnesota	888	1,255	-29.2%	888	1,255	0	0	0	0	0	0
Missouri	882	18	NM	882	18	0	0	0	0	0	0
Nebraska	573	922	-37.9%	573	922	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	15,190	16,520	-8.1%	13,896	15,239	1,294	1,281	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	2,091	2,050	2.0%	2,091	2,050	0	0	0	0	0	0
Georgia	2,548	2,898	-12.1%	2,548	2,898	0	0	0	0	0	0
Maryland	1,294	1,281	1.1%	0	0	1,294	1,281	0	0	0	0
North Carolina	2,593	3,240	-20.0%	2,593	3,240	0	0	0	0	0	0
South Carolina	4,016	4,644	-13.5%	4,016	4,644	0	0	0	0	0	0
Virginia	2,647	2,407	10.0%	2,647	2,407	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5,529	6,642	-16.8%	5,529	6,642	0	0	0	0	0	0
Alabama	3,653	3,223	13.3%	3,653	3,223	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	361	964	-62.6%	361	964	0	0	0	0	0	0
Tennessee	1,515	2,455	-38.3%	1,515	2,455	0	0	0	0	0	0
West South Central	3,438	6,504	-47.1%	1,587	2,854	1,851	3,650	0	0	0	0
Arkansas	518	1,327	-61.0%	518	1,327	0	0	0	0	0	0
Louisiana	1,070	1,528	-30.0%	1,070	1,528	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,851	3,650	-49.3%	0	0	1,851	3,650	0	0	0	0
Mountain	2,122	2,159	-1.7%	2,122	2,159	0	0	0	0	0	0
Arizona	2,122	2,159	-1.7%	2,122	2,159	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	1,964	2,449	-19.8%	1,964	2,449	0	0	0	0	0	0
California	1,413	1,635	-13.6%	1,413	1,635	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	551	814	-32.3%	551	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	56,743	62,365	-9.0%	30,217	34,036	26,526	28,329	0	0	0	0

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	9,572	10,592	-9.6%	0	0	9,572	10,592	0	0	0	0
Connecticut	5,396	5,274	2.3%	0	0	5,396	5,274	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,480	1,898	-22.0%	0	0	1,480	1,898	0	0	0	0
New Hampshire	2,696	3,419	-21.1%	0	0	2,696	3,419	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	51,637	51,987	-0.7%	0	0	51,637	51,987	0	0	0	0
New Jersey	11,578	11,488	0.8%	0	0	11,578	11,488	0	0	0	0
New York	12,680	13,470	-5.9%	0	0	12,680	13,470	0	0	0	0
Pennsylvania	27,379	27,029	1.3%	0	0	27,379	27,029	0	0	0	0
East North Central	49,956	51,022	-2.1%	8,738	8,640	41,217	42,383	0	0	0	0
Illinois	31,320	32,130	-2.5%	0	0	31,320	32,130	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	10,548	11,004	-4.1%	8,738	8,640	1,809	2,364	0	0	0	0
Ohio	5,096	4,782	6.6%	0	0	5,096	4,782	0	0	0	0
Wisconsin	2,992	3,106	-3.7%	0	0	2,992	3,106	0	0	0	0
West North Central	15,739	16,086	-2.2%	13,975	14,317	1,765	1,770	0	0	0	0
Iowa	1,765	1,770	-0.3%	0	0	1,765	1,770	0	0	0	0
Kansas	3,522	3,542	-0.6%	3,522	3,542	0	0	0	0	0	0
Minnesota	4,661	4,344	7.3%	4,661	4,344	0	0	0	0	0	0
Missouri	3,488	2,683	30.0%	3,488	2,683	0	0	0	0	0	0
Nebraska	2,304	3,748	-38.5%	2,304	3,748	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	65,301	67,247	-2.9%	60,607	62,702	4,694	4,545	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	8,766	10,061	-12.9%	8,766	10,061	0	0	0	0	0	0
Georgia	10,632	10,623	0.1%	10,632	10,623	0	0	0	0	0	0
Maryland	4,694	4,545	3.3%	0	0	4,694	4,545	0	0	0	0
North Carolina	12,834	13,355	-3.9%	12,834	13,355	0	0	0	0	0	0
South Carolina	17,760	18,806	-5.6%	17,760	18,806	0	0	0	0	0	0
Virginia	10,615	9,857	7.7%	10,615	9,857	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	26,030	23,979	8.6%	26,030	23,979	0	0	0	0	0	0
Alabama	13,476	13,091	2.9%	13,476	13,091	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,068	2,593	-20.2%	2,068	2,593	0	0	0	0	0	0
Tennessee	10,486	8,295	26.4%	10,486	8,295	0	0	0	0	0	0
West South Central	20,926	24,982	-16.2%	8,540	10,317	12,386	14,664	0	0	0	0
Arkansas	3,941	5,132	-23.2%	3,941	5,132	0	0	0	0	0	0
Louisiana	4,599	5,185	-11.3%	4,599	5,185	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	12,386	14,664	-15.5%	0	0	12,386	14,664	0	0	0	0
Mountain	10,755	10,963	-1.9%	10,755	10,963	0	0	0	0	0	0
Arizona	10,755	10,963	-1.9%	10,755	10,963	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	9,094	9,818	-7.4%	9,094	9,818	0	0	0	0	0	0
California	6,154	6,603	-6.8%	6,154	6,603	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,940	3,215	-8.5%	2,940	3,215	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	259,010	266,677	-2.9%	137,739	140,737	121,271	125,940	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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	653	625	4.5%	93	86	521	502	0	NM	38	36
Connecticut	32	NM	NM	4	NM	27	NM	0	0	0	0
Maine	308	275	11.9%	0	0	271	240	0	0	37	36
Massachusetts	80	81	-0.8%	21	NM	58	64	0	NM	1	NM
New Hampshire	123	157	-21.9%	28	35	94	122	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	110	88	24.7%	40	33	70	55	0	0	0	0
Middle Atlantic	2,616	2,523	3.7%	2,000	2,009	609	509	1	NM	7	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,351	2,300	2.2%	1,988	2,005	356	291	1	NM	7	NM
Pennsylvania	260	222	17.4%	12	NM	248	217	0	0	0	0
East North Central	472	496	-4.9%	409	433	46	43	0	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	0	NM	0	0
Indiana	35	36	-1.5%	35	36	0	0	0	0	0	0
Michigan	150	160	-6.2%	138	147	NM	NM	0	0	NM	NM
Ohio	43	47	-7.4%	24	31	20	NM	0	0	0	0
Wisconsin	232	242	-4.2%	209	215	NM	NM	0	0	NM	NM
West North Central	1,269	872	45.6%	1,235	837	NM	NM	0	0	NM	NM
Iowa	NM	94	NM	NM	93	1	NM	0	0	0	0
Kansas	2	NM	NM	0	0	2	NM	0	0	0	0
Minnesota	81	87	-7.9%	NM	NM	NM	NM	0	0	NM	NM
Missouri	149	54	176.4%	149	54	0	0	0	0	0	0
Nebraska	157	173	-8.9%	157	173	0	0	0	0	0	0
North Dakota	232	136	71.1%	232	136	0	0	0	0	0	0
South Dakota	570	327	74.4%	570	327	0	0	0	0	0	0
South Atlantic	1,578	1,071	47.3%	1,175	851	349	166	1	NM	52	53
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	268	235	13.8%	266	233	NM	NM	0	0	1	NM
Maryland	297	138	115.5%	0	0	297	138	0	0	0	0
North Carolina	444	268	66.0%	438	263	NM	NM	1	NM	NM	NM
South Carolina	276	181	52.3%	269	176	NM	NM	0	NM	0	0
Virginia	124	122	1.2%	117	116	NM	NM	0	0	0	NM
West Virginia	147	109	34.3%	63	NM	33	13	0	0	50	50
East South Central	2,190	1,269	72.5%	2,189	1,269	NM	NM	0	0	0	0
Alabama	915	599	52.8%	915	599	0	0	0	0	0	0
Kentucky	376	243	54.4%	375	243	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	899	427	110.4%	899	427	0	0	0	0	0	0
West South Central	796	656	21.3%	697	541	99	115	0	0	0	0
Arkansas	345	260	32.4%	340	257	NM	NM	0	0	0	0
Louisiana	92	108	-14.4%	0	0	92	108	0	0	0	0
Oklahoma	253	182	39.4%	253	182	0	0	0	0	0	0
Texas	105	106	-0.4%	103	103	2	NM	0	0	0	0
Mountain	3,231	3,367	-4.0%	3,099	3,219	131	147	1	NM	0	0
Arizona	621	627	-0.9%	621	627	0	0	0	0	0	0
Colorado	218	175	24.8%	192	153	NM	NM	1	NM	0	0
Idaho	965	1,183	-18.4%	878	1,076	87	107	0	0	0	0
Montana	1,046	979	6.8%	1,031	964	NM	NM	0	0	0	0
Nevada	164	228	-28.0%	161	226	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	90	86	4.9%	89	85	1	NM	0	0	0	0
Wyoming	104	72	44.5%	104	71	0	NM	0	0	0	0
Pacific Contiguous	16,243	14,458	12.3%	15,927	14,257	313	199	3	NM	0	0
California	4,398	2,764	59.1%	4,145	2,625	249	137	3	NM	0	0
Oregon	3,429	3,738	-8.3%	3,401	3,710	NM	NM	0	0	0	0
Washington	8,416	7,955	5.8%	8,381	7,922	NM	NM	0	0	0	0
Pacific Noncontiguous	190	139	36.6%	175	130	2	3	NM	0	NM	NM
Alaska	183	128	43.2%	174	128	0	0	NM	0	0	0
Hawaii	NM	NM	NM	1	NM	2	3	0	0	NM	NM
U.S. Total	29,236	25,475	14.8%	26,998	23,633	2,092	1,706	NM	NM	131	131

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	2,538	2,883	-12.0%	351	437	2,040	2,287	2	NM	145	156
Connecticut	115	139	-17.7%	10	NM	105	128	0	0	0	0
Maine	1,211	1,287	-6.0%	0	0	1,069	1,134	0	0	142	154
Massachusetts	311	392	-20.7%	79	97	228	291	2	NM	3	NM
New Hampshire	475	581	-18.3%	112	150	363	431	0	0	0	0
Rhode Island	1	NM	NM	0	0	1	NM	0	0	0	0
Vermont	426	481	-11.5%	151	179	275	302	0	0	0	0
Middle Atlantic	10,409	10,746	-3.1%	8,028	7,904	2,352	2,816	2	NM	26	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	9,395	9,486	-1.0%	7,985	7,876	1,381	1,584	2	NM	26	NM
Pennsylvania	1,003	1,248	-19.7%	43	NM	960	1,220	0	0	0	0
East North Central	1,905	1,811	5.2%	1,653	1,550	183	191	1	NM	NM	70
Illinois	NM	54	NM	NM	NM	NM	31	1	NM	0	0
Indiana	139	134	3.8%	139	134	0	0	0	0	0	0
Michigan	601	574	4.6%	555	525	NM	39	0	0	NM	NM
Ohio	170	182	-6.6%	91	99	78	83	0	0	0	0
Wisconsin	948	868	9.2%	848	771	NM	NM	0	0	NM	NM
West North Central	4,931	3,895	26.6%	4,794	3,769	NM	80	0	0	NM	46
Iowa	NM	338	NM	NM	336	3	NM	0	0	0	0
Kansas	9	NM	NM	0	0	9	NM	0	0	0	0
Minnesota	339	315	7.6%	NM	200	NM	69	0	0	NM	46
Missouri	577	627	-7.9%	577	627	0	0	0	0	0	0
Nebraska	665	621	7.0%	665	621	0	0	0	0	0	0
North Dakota	886	618	43.4%	886	618	0	0	0	0	0	0
South Dakota	2,098	1,366	53.6%	2,098	1,366	0	0	0	0	0	0
South Atlantic	5,943	7,374	-19.4%	4,568	6,148	1,165	991	4	NM	206	227
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	89	95	-6.5%	89	95	0	0	0	0	0	0
Georgia	1,129	1,498	-24.6%	1,120	1,485	NM	NM	0	0	6	NM
Maryland	971	805	20.7%	0	0	971	805	0	0	0	0
North Carolina	1,677	2,441	-31.3%	1,656	2,412	NM	NM	3	NM	NM	NM
South Carolina	1,036	1,296	-20.1%	1,014	1,265	NM	NM	1	NM	0	0
Virginia	465	691	-32.6%	439	655	NM	NM	0	0	0	NM
West Virginia	577	548	5.2%	250	236	129	101	0	0	198	212
East South Central	8,624	9,798	-12.0%	8,620	9,795	NM	NM	0	0	0	0
Alabama	3,585	4,872	-26.4%	3,585	4,872	0	0	0	0	0	0
Kentucky	1,518	1,344	12.9%	1,515	1,341	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3,520	3,582	-1.7%	3,520	3,582	0	0	0	0	0	0
West South Central	3,050	3,614	-15.6%	2,661	3,142	389	471	0	0	0	0
Arkansas	1,311	1,647	-20.4%	1,298	1,625	NM	NM	0	0	0	0
Louisiana	366	435	-15.8%	0	0	366	435	0	0	0	0
Oklahoma	985	988	-0.3%	985	988	0	0	0	0	0	0
Texas	388	545	-28.7%	378	529	10	NM	0	0	0	0
Mountain	12,250	10,872	12.7%	11,778	10,475	471	394	2	NM	0	0
Arizona	2,470	2,497	-1.1%	2,470	2,497	0	0	0	0	0	0
Colorado	767	742	3.3%	685	664	NM	75	2	NM	0	0
Idaho	3,684	3,444	7.0%	3,366	3,193	318	251	0	0	0	0
Montana	4,094	3,050	34.2%	4,037	2,997	NM	NM	0	0	0	0
Nevada	454	588	-22.8%	445	580	NM	NM	0	0	0	0
New Mexico	NM	58	NM	NM	58	0	0	0	0	0	0
Utah	335	306	9.7%	329	302	6	NM	0	0	0	0
Wyoming	378	187	101.8%	378	184	0	NM	0	0	0	0
Pacific Contiguous	61,382	50,508	21.5%	60,237	49,895	1,136	607	9	NM	0	0
California	16,205	8,200	97.6%	15,300	7,813	896	380	9	NM	0	0
Oregon	14,129	14,203	-0.5%	14,018	14,098	NM	105	0	0	0	0
Washington	31,048	28,105	10.5%	30,920	27,984	NM	121	0	0	0	0
Pacific Noncontiguous	717	576	24.4%	673	550	5	5	NM	0	NM	NM
Alaska	688	542	26.9%	670	542	0	0	NM	0	0	0
Hawaii	NM	NM	NM	3	NM	5	5	0	0	NM	NM
U.S. Total	111,750	102,076	9.5%	103,363	93,665	7,830	7,845	NM	NM	519	545

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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 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	972	759	28.0%	52	35	801	624	14	13	106	87
Connecticut	71	67	6.3%	0	NM	71	66	0	0	0	0
Maine	468	337	39.1%	0	0	355	243	8	6	106	87
Massachusetts	186	167	11.8%	7	7	174	156	5	NM	0	NM
New Hampshire	144	119	21.5%	4	0	140	116	0	2	0	0
Rhode Island	31	18	72.0%	0	0	30	17	1	NM	0	0
Vermont	72	53	36.1%	40	27	31	25	0	NM	0	0
Middle Atlantic	1,353	1,067	26.8%	9	8	1,217	959	59	57	69	43
New Jersey	171	158	8.4%	9	8	135	124	27	25	NM	NM
New York	639	445	43.8%	0	0	605	416	19	17	15	11
Pennsylvania	543	465	16.7%	0	0	477	419	13	15	53	31
East North Central	2,959	2,561	15.5%	332	293	2,478	2,111	18	19	131	138
Illinois	1,245	1,077	15.6%	3	NM	1,241	1,073	NM	NM	0	0
Indiana	537	508	5.8%	31	28	499	472	2	NM	NM	6
Michigan	671	525	27.9%	155	139	456	319	10	12	49	54
Ohio	220	184	19.8%	NM	NM	191	152	1	NM	25	29
Wisconsin	286	268	6.6%	139	120	91	95	4	4	50	49
West North Central	7,109	6,618	7.4%	2,314	2,409	4,740	4,154	12	14	43	40
Iowa	2,070	2,356	-12.1%	1,345	1,496	719	851	NM	4	4	5
Kansas	1,928	1,307	47.5%	213	81	1,714	1,223	0	0	0	NM
Minnesota	1,251	1,293	-3.3%	274	328	933	930	NM	5	39	30
Missouri	200	146	37.3%	NM	NM	192	139	4	3	0	NM
Nebraska	464	394	17.7%	27	24	436	369	2	NM	0	0
North Dakota	925	802	15.4%	367	375	558	424	0	0	0	NM
South Dakota	271	319	-14.9%	83	102	188	216	0	0	0	0
South Atlantic	2,615	1,997	30.9%	284	175	1,479	985	29	44	822	794
Delaware	11	11	4.0%	NM	NM	9	8	0	NM	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	507	383	32.4%	66	29	263	179	NM	5	173	169
Georgia	557	390	42.9%	26	6	213	91	NM	NM	319	291
Maryland	118	112	5.4%	NM	NM	107	99	NM	3	9	9
North Carolina	698	515	35.4%	42	22	593	380	12	16	50	98
South Carolina	215	170	26.8%	35	29	34	28	0	0	146	113
Virginia	332	296	12.1%	113	87	84	79	12	18	124	112
West Virginia	173	121	43.4%	0	0	173	121	0	0	0	0
East South Central	525	479	9.6%	9	7	61	40	NM	NM	455	432
Alabama	268	241	11.2%	NM	0	37	22	0	0	229	219
Kentucky	35	43	-19.0%	7	7	1	NM	0	0	27	35
Mississippi	125	114	10.1%	0	0	NM	NM	0	0	124	113
Tennessee	98	82	19.1%	0	0	22	16	NM	NM	75	65
West South Central	9,989	6,938	44.0%	193	132	9,374	6,411	9	8	413	387
Arkansas	123	109	13.2%	NM	NM	9	13	1	NM	113	95
Louisiana	215	204	5.3%	0	0	7	8	0	0	207	196
Oklahoma	2,433	1,688	44.1%	163	109	2,246	1,555	0	0	23	24
Texas	7,219	4,937	46.2%	30	23	7,111	4,835	8	8	69	72
Mountain	4,060	3,130	29.7%	344	258	3,671	2,819	14	12	31	41
Arizona	557	403	38.2%	61	48	494	354	NM	2	0	0
Colorado	1,038	909	14.2%	31	9	1,004	898	NM	NM	0	NM
Idaho	341	294	15.8%	NM	NM	309	254	1	NM	29	39
Montana	201	167	20.3%	21	17	179	149	0	0	2	NM
Nevada	744	548	35.8%	4	NM	733	538	7	7	0	NM
New Mexico	462	378	22.3%	23	22	439	355	NM	NM	0	0
Utah	318	127	149.5%	24	16	293	111	1	NM	0	0
Wyoming	399	303	31.5%	178	143	221	160	0	0	0	0
Pacific Contiguous	6,913	6,070	13.9%	760	744	5,877	5,053	77	77	199	196
California	5,156	4,339	18.8%	184	167	4,849	4,056	73	74	49	41
Oregon	832	874	-4.8%	111	162	671	666	NM	NM	47	44
Washington	925	857	7.9%	464	414	357	331	NM	NM	102	110
Pacific Noncontiguous	142	142	-0.2%	18	15	106	93	17	23	NM	10
Alaska	19	21	-7.6%	11	11	5	5	3	4	NM	NM
Hawaii	122	121	1.1%	8	5	100	88	14	19	0	10
U.S. Total	36,637	29,761	23.1%	4,314	4,077	29,805	23,250	249	267	2,269	2,167

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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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	3,859	3,639	6.0%	292	288	3,080	2,911	63	51	425	389
Connecticut	264	298	-11.5%	1	NM	263	298	0	0	0	0
Maine	1,869	1,603	16.6%	0	0	1,415	1,188	29	27	425	388
Massachusetts	667	661	0.9%	26	29	621	619	19	12	0	NM
New Hampshire	639	705	-9.4%	84	82	544	614	11	9	0	0
Rhode Island	127	78	63.2%	0	0	124	75	3	NM	0	0
Vermont	294	295	-0.2%	180	177	113	118	1	NM	0	0
Middle Atlantic	4,897	5,179	-5.5%	27	31	4,363	4,677	217	228	289	243
New Jersey	620	599	3.5%	27	31	493	463	98	105	NM	NM
New York	2,245	2,331	-3.7%	0	0	2,105	2,192	68	69	71	70
Pennsylvania	2,032	2,249	-9.7%	0	0	1,765	2,022	51	54	216	172
East North Central	11,064	11,586	-4.5%	1,237	1,335	9,232	9,617	73	74	521	559
Illinois	4,654	4,736	-1.7%	13	13	4,639	4,722	NM	NM	0	0
Indiana	1,907	2,406	-20.7%	125	111	1,751	2,266	7	6	NM	23
Michigan	2,533	2,556	-0.9%	601	721	1,698	1,568	40	46	195	222
Ohio	925	818	13.1%	NM	9	807	690	5	5	104	113
Wisconsin	1,043	1,069	-2.4%	489	482	336	371	18	15	199	201
West North Central	26,677	23,214	14.9%	8,528	8,154	17,873	14,824	52	56	224	179
Iowa	7,910	7,913	0.0%	5,198	4,952	2,688	2,926	NM	15	15	21
Kansas	6,672	5,115	30.4%	591	334	6,079	4,774	0	0	1	7
Minnesota	4,887	4,559	7.2%	1,048	1,151	3,618	3,247	NM	20	204	141
Missouri	668	523	27.7%	NM	13	633	493	18	15	1	NM
Nebraska	1,955	1,381	41.6%	104	98	1,844	1,277	7	6	0	0
North Dakota	3,493	2,636	32.5%	1,225	1,259	2,266	1,368	0	0	2	9
South Dakota	1,091	1,086	0.5%	347	347	745	739	0	0	0	0
South Atlantic	9,784	8,326	17.5%	1,045	749	5,107	4,041	133	163	3,498	3,373
Delaware	40	41	-2.8%	NM	NM	31	33	2	NM	NM	4
District of Columbia	18	0	--	0	0	18	0	0	0	0	0
Florida	1,983	1,590	24.8%	234	81	1,009	816	NM	20	722	672
Georgia	2,137	1,678	27.4%	82	21	741	376	NM	5	1,312	1,276
Maryland	428	445	-3.9%	NM	NM	378	398	NM	12	40	32
North Carolina	2,362	1,826	29.4%	113	80	1,860	1,329	51	57	338	359
South Carolina	882	783	12.7%	148	135	138	140	0	0	596	508
Virginia	1,359	1,378	-1.4%	463	427	357	363	54	66	485	522
West Virginia	575	586	-1.8%	0	0	575	586	0	0	0	0
East South Central	2,104	2,090	0.7%	31	28	216	158	NM	NM	1,856	1,903
Alabama	1,095	1,056	3.6%	NM	0	135	85	0	0	957	971
Kentucky	139	166	-16.6%	29	28	3	NM	0	0	107	136
Mississippi	495	508	-2.5%	0	0	NM	NM	0	0	489	504
Tennessee	375	359	4.3%	0	0	71	66	NM	NM	303	292
West South Central	37,157	29,042	27.9%	711	590	34,752	26,732	27	32	1,667	1,688
Arkansas	491	501	-2.1%	NM	NM	38	49	2	NM	450	450
Louisiana	852	865	-1.4%	0	0	29	30	0	0	823	834
Oklahoma	9,181	6,946	32.2%	599	497	8,478	6,349	0	0	105	100
Texas	26,633	20,731	28.5%	112	93	26,207	20,303	25	30	289	304
Mountain	14,172	13,073	8.4%	1,180	1,322	12,824	11,566	43	43	124	142
Arizona	1,694	1,369	23.7%	172	156	1,516	1,207	NM	6	0	0
Colorado	3,853	3,743	2.9%	117	37	3,728	3,699	NM	6	1	NM
Idaho	1,086	1,171	-7.2%	NM	NM	962	1,031	4	3	116	134
Montana	754	847	-11.1%	81	87	666	753	0	0	7	7
Nevada	2,553	2,096	21.8%	12	10	2,520	2,062	21	23	0	NM
New Mexico	1,707	1,551	10.1%	67	74	1,639	1,476	NM	NM	0	0
Utah	1,132	516	119.4%	93	84	1,035	427	4	4	0	0
Wyoming	1,394	1,779	-21.7%	635	868	759	911	0	0	0	0
Pacific Contiguous	23,320	20,683	12.8%	2,399	2,580	19,785	16,960	312	342	824	801
California	17,911	14,945	19.8%	640	598	16,777	13,842	297	330	197	175
Oregon	2,352	2,496	-5.8%	288	378	1,878	1,943	NM	6	177	169
Washington	3,057	3,242	-5.7%	1,471	1,604	1,131	1,174	NM	6	450	457
Pacific Noncontiguous	522	463	12.8%	70	66	379	276	71	81	NM	40
Alaska	70	82	-14.6%	38	41	19	21	11	17	NM	3
Hawaii	452	380	18.8%	32	25	359	255	60	64	0	37
U.S. Total	133,555	117,294	13.9%	15,522	15,144	107,610	91,761	993	1,071	9,430	9,318

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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	-24	-45	-46.3%	0	0	-24	-45	0	0	0	0
Connecticut	2	0	463.5%	0	0	2	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-26	-45	-43.0%	0	0	-26	-45	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	-97	-82	18.7%	-51	-43	-46	-39	0	0	0	0
New Jersey	-14	-9	58.9%	-14	-9	0	0	0	0	0	0
New York	-37	-34	8.4%	-37	-34	0	0	0	0	0	0
Pennsylvania	-46	-39	18.4%	0	0	-46	-39	0	0	0	0
East North Central	-46	-45	2.7%	-46	-45	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	-46	-45	2.7%	-46	-45	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	31	-6	-631.2%	31	-6	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	31	-6	-631.2%	31	-6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-212	-192	10.4%	-212	-192	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	-82	-33	147.5%	-82	-33	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	-64	-69	-6.2%	-64	-69	0	0	0	0	0	0
Virginia	-66	-90	-27.0%	-66	-90	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-42	-40	4.7%	-42	-40	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	-42	-40	4.7%	-42	-40	0	0	0	0	0	0
West South Central	-7	2	-449.5%	-7	2	0	0	0	0	0	0
Arkansas	5	9	-44.7%	5	9	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-7	62.4%	-12	-7	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-31	-21	46.8%	-31	-21	0	0	0	0	0	0
Arizona	-6	4	-268.8%	-6	4	0	0	0	0	0	0
Colorado	-25	-25	0.9%	-25	-25	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	-8	-22	-64.0%	-8	-22	0	0	0	0	0	0
California	-9	-22	-58.3%	-9	-22	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	0	-363.0%	1	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	-437	-452	-3.3%	-366	-367	-71	-84	0	0	0	0

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	-139	-174	-19.8%	0	0	-139	-174	0	0	0	0
Connecticut	-6	0	NM	0	0	-6	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-134	-174	-23.2%	0	0	-134	-174	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	-357	-335	6.6%	-179	-184	-178	-151	0	0	0	0
New Jersey	-51	-53	-4.1%	-51	-53	0	0	0	0	0	0
New York	-128	-130	-1.8%	-128	-130	0	0	0	0	0	0
Pennsylvania	-178	-151	17.6%	0	0	-178	-151	0	0	0	0
East North Central	-174	-134	29.7%	-174	-134	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	-174	-134	29.7%	-174	-134	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	18	132	-86.0%	18	132	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	18	132	-86.0%	18	132	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	-961	-506	89.9%	-961	-506	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	-426	2	NM	-426	2	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	-263	-220	19.9%	-263	-220	0	0	0	0	0	0
Virginia	-272	-289	-5.9%	-272	-289	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-173	-163	6.3%	-173	-163	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	-173	-163	6.3%	-173	-163	0	0	0	0	0	0
West South Central	-25	3	-827.8%	-25	3	0	0	0	0	0	0
Arkansas	6	22	-72.4%	6	22	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-31	-19	66.8%	-31	-19	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-114	-106	7.3%	-114	-106	0	0	0	0	0	0
Arizona	-14	-1	NM	-14	-1	0	0	0	0	0	0
Colorado	-100	-106	-5.0%	-100	-106	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	49	-264	-118.6%	49	-264	0	0	0	0	0	0
California	50	-262	-119.1%	50	-262	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	-2	-54.5%	-1	-2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,876	-1,546	21.3%	-1,559	-1,221	-317	-325	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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	149	157	-5.2%	0	0	131	142	7	7	11	8
Connecticut	47	50	-5.7%	0	0	47	50	0	0	0	0
Maine	32	30	7.1%	0	0	14	15	7	7	11	8
Massachusetts	65	73	-10.3%	0	0	65	73	0	0	0	0
New Hampshire	4	4	-0.3%	0	0	4	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	171	184	-7.0%	0	0	129	146	36	38	6	0
New Jersey	44	45	-3.2%	0	0	27	34	11	11	6	0
New York	72	68	7.0%	0	0	55	50	17	17	0	0
Pennsylvania	55	71	-22.9%	0	0	47	62	8	9	0	0
East North Central	93	86	7.8%	16	4	6	14	11	14	60	55
Illinois	24	19	24.4%	0	0	-2	0	0	0	26	19
Indiana	30	31	-1.2%	0	0	0	0	1	NM	29	29
Michigan	20	29	-32.1%	0	2	8	13	10	12	2	2
Ohio	15	NM	NM	15	0	-1	NM	0	0	1	1
Wisconsin	4	5	-20.3%	1	2	0	0	0	0	NM	4
West North Central	39	38	0.9%	17	20	14	12	NM	NM	5	4
Iowa	1	NM	NM	0	0	0	0	0	0	1	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	35	35	-0.6%	14	16	14	12	NM	NM	4	4
Missouri	0	NM	NM	0	NM	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	3	NM	NM	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	355	397	-10.7%	0	0	166	199	10	17	178	181
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	258	261	-1.3%	0	0	118	116	0	0	139	146
Georgia	9	10	-7.2%	0	0	0	0	0	0	9	10
Maryland	25	29	-14.2%	0	0	25	29	0	0	0	0
North Carolina	48	56	-14.0%	0	0	22	33	0	0	26	23
South Carolina	4	3	39.5%	0	0	1	NM	0	0	4	3
Virginia	10	39	-73.3%	0	0	0	22	10	17	0	0
West Virginia	0	-1	-119.8%	0	0	0	-1	0	0	0	0
East South Central	4	6	-36.2%	1	4	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	1	4	-61.6%	1	4	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	1	41.3%	0	0	0	0	0	0	2	1
West South Central	76	117	-35.4%	0	0	7	5	0	0	69	113
Arkansas	0	0	4.1%	0	0	0	0	0	0	0	0
Louisiana	39	54	-28.1%	0	0	0	0	0	0	39	54
Oklahoma	1	5	-74.5%	0	0	2	3	0	0	-1	NM
Texas	36	58	-39.1%	0	0	5	NM	0	0	30	57
Mountain	58	53	11.2%	2	NM	31	29	0	0	25	23
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	4	4	-5.0%	0	0	1	NM	0	0	3	NM
Idaho	6	6	-11.5%	0	0	0	0	0	0	6	6
Montana	30	28	6.2%	0	0	30	28	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	12	14	-13.7%	0	0	0	NM	0	0	12	14
Wyoming	5	0	--	0	0	0	0	0	0	5	0
Pacific Contiguous	87	66	32.8%	0	NM	24	27	0	0	63	39
California	78	57	37.3%	0	NM	15	18	0	0	63	39
Oregon	3	4	-15.1%	0	NM	3	4	0	0	0	0
Washington	6	5	17.1%	0	0	6	5	0	0	0	0
Pacific Noncontiguous	30	20	52.9%	16	NM	0	2	14	18	0	0
Alaska	0	NM	NM	0	NM	0	0	0	0	0	0
Hawaii	30	20	54.6%	16	0	0	2	14	18	0	0
U.S. Total	1,061	1,123	-5.6%	54	28	508	575	81	97	419	424

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	586	617	-5.0%	0	0	511	555	26	29	49	33
Connecticut	171	197	-12.9%	0	0	171	197	0	0	0	0
Maine	137	119	15.0%	0	0	62	56	26	29	49	33
Massachusetts	263	284	-7.6%	0	0	263	284	0	0	0	0
New Hampshire	16	17	-9.1%	0	0	16	17	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	733	758	-3.3%	0	0	571	610	139	148	23	0
New Jersey	195	178	9.6%	0	0	124	129	49	49	23	0
New York	268	282	-4.8%	0	0	207	215	62	67	0	0
Pennsylvania	269	298	-9.6%	0	0	241	266	29	32	0	0
East North Central	330	331	-0.5%	61	16	27	56	45	51	196	209
Illinois	86	74	15.7%	0	0	-6	-2	0	0	91	76
Indiana	91	115	-20.8%	0	0	0	0	6	6	84	109
Michigan	79	114	-30.8%	0	9	35	51	39	46	5	8
Ohio	57	9	514.3%	56	0	-2	6	0	0	3	3
Wisconsin	17	19	-12.1%	5	6	0	0	0	0	NM	13
West North Central	142	150	-4.9%	63	76	50	46	NM	11	18	17
Iowa	1	NM	NM	0	0	0	0	0	0	1	NM
Kansas	1	0	--	0	0	0	0	0	0	1	0
Minnesota	125	129	-2.9%	48	57	50	46	NM	11	16	15
Missouri	1	6	-86.4%	1	6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	13	NM	NM	13	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,412	1,520	-7.1%	0	0	723	790	49	61	640	668
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	1,023	1,026	-0.4%	0	0	522	495	0	0	500	531
Georgia	40	40	1.1%	0	0	0	0	0	0	40	40
Maryland	94	94	0.5%	0	0	94	93	0	NM	0	0
North Carolina	165	217	-23.8%	0	0	78	129	0	0	87	88
South Carolina	14	11	33.3%	0	0	2	NM	0	0	12	9
Virginia	76	135	-43.9%	0	0	27	74	49	61	0	0
West Virginia	-1	-3	-60.9%	0	0	-1	-3	0	0	0	0
East South Central	19	31	-38.7%	11	22	0	0	0	0	8	8
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	11	22	-50.9%	11	22	0	0	0	0	0	0
Mississippi	1	NM	NM	0	0	0	0	0	0	1	NM
Tennessee	7	6	3.6%	0	0	0	0	0	0	7	6
West South Central	389	434	-10.4%	0	0	37	11	0	0	352	424
Arkansas	2	3	-40.1%	0	0	0	0	0	0	2	3
Louisiana	189	206	-8.5%	0	0	0	0	0	0	189	206
Oklahoma	8	12	-36.1%	0	0	11	7	0	0	-4	5
Texas	191	214	-10.6%	0	0	26	4	0	0	166	210
Mountain	237	211	12.1%	11	NM	119	123	0	0	107	87
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	18	16	14.5%	0	0	6	5	0	0	13	12
Idaho	21	24	-11.8%	0	0	0	0	0	0	21	24
Montana	113	118	-4.3%	0	0	113	118	0	0	0	0
Nevada	11	NM	NM	11	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	52	53	-1.9%	0	0	0	NM	0	0	51	52
Wyoming	22	0	--	0	0	0	0	0	0	22	0
Pacific Contiguous	320	266	20.3%	0	NM	98	85	0	0	221	181
California	289	231	25.1%	1	NM	67	49	0	0	221	181
Oregon	13	15	-12.1%	0	NM	13	15	0	0	0	0
Washington	18	20	-11.0%	0	0	18	20	0	0	0	0
Pacific Noncontiguous	114	65	74.6%	54	NM	2	4	58	61	0	0
Alaska	-1	NM	NM	-1	NM	0	0	0	0	0	0
Hawaii	115	65	77.1%	55	0	2	4	58	61	0	0
U.S. Total	4,281	4,384	-2.3%	200	115	2,138	2,278	327	362	1,616	1,628

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	347	215	61.2%	26	21	318	191	2	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	230	130	76.7%	0	0	230	130	0	0	0	0
Massachusetts	24	20	19.3%	6	6	16	11	2	NM	0	NM
New Hampshire	47	38	22.6%	0	0	47	38	0	0	0	0
Rhode Island	12	NM	NM	0	0	11	NM	1	NM	0	0
Vermont	33	24	35.1%	20	14	13	10	0	0	0	0
Middle Atlantic	789	537	47.0%	0	0	789	537	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	439	260	69.0%	0	0	439	260	0	0	0	NM
Pennsylvania	348	275	26.4%	0	0	348	275	0	0	0	0
East North Central	2,461	2,077	18.5%	264	237	2,189	1,834	NM	NM	6	NM
Illinois	1,196	1,026	16.5%	NM	NM	1,194	1,025	NM	NM	0	0
Indiana	475	451	5.2%	0	0	475	451	0	NM	0	0
Michigan	478	335	42.7%	153	138	325	197	0	0	0	0
Ohio	149	114	31.2%	NM	NM	142	107	0	NM	5	NM
Wisconsin	163	151	7.7%	108	96	54	54	0	0	1	NM
West North Central	6,873	6,435	6.8%	2,271	2,366	4,599	4,066	NM	NM	0	0
Iowa	2,056	2,334	-11.9%	1,342	1,493	714	841	0	NM	0	0
Kansas	1,923	1,300	47.9%	213	81	1,709	1,218	0	0	0	0
Minnesota	1,059	1,165	-9.1%	244	297	812	865	NM	NM	0	0
Missouri	184	132	38.9%	0	0	184	132	0	0	0	0
Nebraska	456	386	18.0%	21	17	435	369	0	0	0	0
North Dakota	925	799	15.7%	367	375	558	424	0	0	0	0
South Dakota	271	319	-15.0%	83	102	188	216	0	0	0	0
South Atlantic	282	164	71.3%	0	0	281	164	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	52	44	18.3%	0	0	52	44	0	0	0	0
North Carolina	57	0	--	0	0	57	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	173	120	43.9%	0	0	173	120	0	0	0	0
East South Central	5	4	22.8%	0	0	5	4	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	5	4	22.8%	0	0	5	4	0	0	0	0
West South Central	9,308	6,413	45.1%	193	129	9,110	6,281	5	4	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	2,409	1,663	44.9%	162	109	2,246	1,554	0	0	0	0
Texas	6,899	4,750	45.2%	30	20	6,864	4,727	5	4	0	0
Mountain	2,309	2,006	15.1%	230	169	2,077	1,836	NM	NM	0	NM
Arizona	64	50	29.3%	0	0	64	50	0	0	0	0
Colorado	940	865	8.7%	31	9	908	855	NM	NM	0	NM
Idaho	237	231	2.7%	0	0	237	231	0	0	0	0
Montana	200	166	20.4%	21	17	179	149	0	0	0	0
Nevada	38	31	20.5%	0	0	38	31	0	0	0	0
New Mexico	351	310	13.2%	0	0	351	310	NM	NM	0	0
Utah	80	50	60.4%	0	0	80	50	0	0	0	0
Wyoming	399	303	31.5%	178	143	221	160	0	0	0	0
Pacific Contiguous	2,945	2,810	4.8%	588	596	2,356	2,212	1	NM	0	NM
California	1,470	1,337	9.9%	57	63	1,413	1,273	1	NM	0	NM
Oregon	703	773	-9.1%	106	155	597	618	0	0	0	0
Washington	772	699	10.4%	425	378	346	321	0	0	0	0
Pacific Noncontiguous	84	82	2.4%	11	11	74	72	0	0	0	0
Alaska	16	16	0.9%	11	11	5	5	0	0	0	0
Hawaii	68	66	2.8%	0	0	68	66	0	0	0	0
U.S. Total	25,403	20,745	22.5%	3,582	3,528	21,800	17,196	14	13	7	7

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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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	1,311	976	34.3%	96	93	1,204	869	12	13	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	891	589	51.2%	0	0	891	589	0	0	0	0
Massachusetts	88	85	3.2%	23	24	57	50	9	10	0	NM
New Hampshire	158	179	-11.8%	0	0	158	179	0	0	0	0
Rhode Island	53	NM	NM	0	0	50	NM	3	NM	0	0
Vermont	116	113	3.0%	73	69	43	43	0	0	0	0
Middle Atlantic	2,661	2,992	-11.1%	0	0	2,660	2,991	0	0	1	NM
New Jersey	NM	8	NM	0	0	NM	8	0	0	0	0
New York	1,460	1,562	-6.5%	0	0	1,460	1,561	0	0	1	NM
Pennsylvania	1,193	1,421	-16.1%	0	0	1,193	1,421	0	0	0	0
East North Central	9,076	9,594	-5.4%	966	1,100	8,083	8,466	NM	NM	23	24
Illinois	4,454	4,535	-1.8%	NM	5	4,447	4,527	NM	NM	0	0
Indiana	1,676	2,189	-23.4%	0	0	1,675	2,189	1	NM	0	0
Michigan	1,755	1,748	0.4%	595	717	1,160	1,031	0	0	0	0
Ohio	643	540	19.0%	NM	NM	617	512	2	NM	20	21
Wisconsin	548	582	-5.8%	362	372	183	206	0	0	3	NM
West North Central	25,733	22,444	14.7%	8,358	7,981	17,363	14,450	NM	12	0	0
Iowa	7,855	7,827	0.4%	5,185	4,942	2,668	2,884	2	NM	0	0
Kansas	6,650	5,087	30.7%	591	334	6,059	4,753	0	0	0	0
Minnesota	4,124	4,000	3.1%	930	1,027	3,183	2,962	NM	11	0	0
Missouri	602	467	29.0%	0	0	602	467	0	0	0	0
Nebraska	1,921	1,348	42.5%	80	71	1,841	1,277	0	0	0	0
North Dakota	3,491	2,627	32.9%	1,225	1,259	2,266	1,368	0	0	0	0
South Dakota	1,091	1,086	0.4%	347	347	744	739	0	0	0	0
South Atlantic	939	800	17.4%	0	0	937	798	2	NM	0	0
Delaware	2	NM	NM	0	0	0	0	2	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	184	213	-13.5%	0	0	184	213	0	0	0	0
North Carolina	178	0	--	0	0	178	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	575	585	-1.7%	0	0	575	585	0	0	0	0
East South Central	12	19	-35.6%	0	0	12	19	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	12	19	-35.6%	0	0	12	19	0	0	0	0
West South Central	34,677	26,813	29.3%	709	586	33,955	26,212	13	15	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	9,073	6,840	32.6%	597	495	8,476	6,345	0	0	0	0
Texas	25,604	19,973	28.2%	112	91	25,479	19,867	13	15	0	0
Mountain	8,584	8,952	-4.1%	832	993	7,745	7,955	NM	NM	1	NM
Arizona	242	186	30.3%	0	0	242	186	0	0	0	0
Colorado	3,547	3,587	-1.1%	117	37	3,425	3,547	NM	NM	1	NM
Idaho	764	934	-18.2%	0	0	764	934	0	0	0	0
Montana	747	840	-11.2%	81	87	666	753	0	0	0	0
Nevada	142	101	41.1%	0	0	142	101	0	0	0	0
New Mexico	1,378	1,321	4.3%	0	0	1,377	1,320	NM	NM	0	0
Utah	370	203	82.1%	0	0	370	203	0	0	0	0
Wyoming	1,394	1,779	-21.7%	635	868	759	911	0	0	0	0
Pacific Contiguous	9,737	8,639	12.7%	1,772	1,933	7,961	6,703	3	NM	1	NM
California	5,459	3,969	37.5%	191	131	5,264	3,835	3	NM	1	NM
Oregon	1,869	2,083	-10.3%	265	349	1,604	1,734	0	0	0	0
Washington	2,409	2,587	-6.9%	1,316	1,453	1,093	1,134	0	0	0	0
Pacific Noncontiguous	312	231	35.2%	38	41	274	190	0	0	0	0
Alaska	58	62	-7.6%	38	41	19	21	0	0	0	0
Hawaii	255	169	51.1%	0	0	255	169	0	0	0	0
U.S. Total	93,043	81,459	14.2%	12,772	12,727	80,194	68,651	51	51	26	29

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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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	537	485	10.7%	19	13	402	377	11	9	106	87
Connecticut	66	63	3.5%	0	0	66	63	0	0	0	0
Maine	238	206	15.4%	0	0	125	113	8	6	106	87
Massachusetts	91	96	-5.7%	0	0	89	96	2	NM	0	0
New Hampshire	97	80	20.9%	4	0	93	78	0	2	0	0
Rhode Island	17	15	13.0%	0	0	17	15	0	0	0	0
Vermont	28	24	18.6%	15	13	NM	NM	0	NM	0	0
Middle Atlantic	442	436	1.3%	0	0	331	348	44	46	67	42
New Jersey	72	81	-10.4%	0	0	59	66	13	14	0	0
New York	181	171	6.1%	0	0	148	143	18	17	15	11
Pennsylvania	189	185	2.1%	0	0	124	139	13	15	52	31
East North Central	448	453	-1.0%	53	51	254	253	17	18	124	131
Illinois	45	47	-4.3%	2	NM	43	45	0	0	0	0
Indiana	31	36	-15.1%	20	25	4	NM	1	NM	NM	6
Michigan	191	188	1.4%	0	0	132	122	10	12	49	54
Ohio	60	64	-6.7%	NM	NM	39	40	1	NM	20	23
Wisconsin	121	117	3.9%	31	24	36	41	4	4	50	48
West North Central	184	179	3.1%	42	43	90	85	9	11	43	40
Iowa	13	22	-39.3%	NM	NM	5	11	NM	4	4	5
Kansas	NM	7	NM	0	0	NM	NM	0	0	0	NM
Minnesota	147	128	14.8%	30	31	76	65	NM	NM	39	30
Missouri	12	11	7.4%	NM	NM	NM	NM	4	3	0	NM
Nebraska	8	8	-10.7%	6	7	0	0	2	NM	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,507	1,407	7.2%	144	125	524	456	17	32	822	794
Delaware	NM	6	NM	0	0	NM	NM	0	0	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	442	357	23.8%	8	9	257	174	NM	5	173	169
Georgia	357	333	7.3%	0	0	38	41	0	NM	319	291
Maryland	41	47	-12.7%	0	0	31	36	NM	NM	9	9
North Carolina	143	198	-27.9%	0	0	91	95	NM	5	50	98
South Carolina	212	170	24.8%	35	29	30	27	0	0	146	113
Virginia	303	296	2.5%	101	87	67	79	12	18	124	112
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	488	469	4.0%	NM	7	28	30	0	0	455	432
Alabama	250	241	3.7%	0	0	21	22	0	0	229	219
Kentucky	33	43	-23.0%	NM	7	1	NM	0	0	27	35
Mississippi	125	114	9.5%	0	0	NM	NM	0	0	124	113
Tennessee	80	72	12.4%	0	0	NM	6	0	0	75	65
West South Central	486	467	4.1%	0	2	70	74	3	4	413	387
Arkansas	120	106	13.4%	0	0	6	11	1	NM	113	95
Louisiana	215	204	5.3%	0	0	7	8	0	0	207	196
Oklahoma	23	25	-4.4%	0	0	0	NM	0	0	23	24
Texas	128	133	-3.5%	0	2	56	54	3	4	69	72
Mountain	88	96	-7.9%	NM	NM	54	53	2	NM	31	40
Arizona	NM	19	NM	0	0	NM	19	0	0	0	0
Colorado	14	8	68.4%	0	0	14	8	0	0	0	0
Idaho	46	56	-18.8%	NM	NM	14	16	1	NM	29	39
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	7	7	2.0%	0	0	NM	6	1	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	712	702	1.5%	55	56	395	385	65	66	198	194
California	472	463	2.0%	12	14	351	346	61	63	48	40
Oregon	87	81	7.6%	NM	NM	33	30	NM	NM	47	44
Washington	153	158	-2.9%	39	36	11	10	NM	NM	102	110
Pacific Noncontiguous	22	34	-36.9%	4	1	0	0	17	23	NM	10
Alaska	3	5	-34.2%	0	0	0	0	3	4	NM	NM
Hawaii	18	29	-37.4%	4	1	0	0	14	19	0	10
U.S. Total	4,915	4,728	4.0%	324	299	2,146	2,062	185	210	2,260	2,157

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

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

by State, by Sector, Year-to-Date through April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	2,288	2,444	-6.4%	176	189	1,637	1,830	50	37	425	388
Connecticut	247	286	-13.8%	0	0	247	286	0	0	0	0
Maine	978	1,013	-3.5%	0	0	524	598	29	27	425	388
Massachusetts	370	387	-4.5%	0	0	360	386	9	NM	0	0
New Hampshire	481	526	-8.6%	84	82	386	435	11	9	0	0
Rhode Island	69	68	1.6%	0	0	69	68	0	0	0	0
Vermont	145	164	-11.5%	92	106	NM	57	1	NM	0	0
Middle Atlantic	1,869	1,847	1.2%	0	0	1,411	1,425	174	183	284	239
New Jersey	322	319	1.0%	0	0	264	257	58	62	0	0
New York	728	722	0.8%	0	0	591	585	67	69	71	69
Pennsylvania	819	806	1.7%	0	0	556	583	50	53	214	170
East North Central	1,836	1,879	-2.3%	228	217	1,042	1,059	68	69	498	533
Illinois	186	186	0.3%	8	6	179	179	0	0	0	0
Indiana	137	145	-5.6%	90	99	17	17	7	6	NM	23
Michigan	773	804	-4.0%	0	NM	538	537	40	46	195	222
Ohio	249	256	-2.7%	NM	NM	160	162	3	3	83	91
Wisconsin	491	487	0.8%	127	109	149	164	18	15	196	198
West North Central	786	759	3.6%	167	173	356	363	39	43	224	179
Iowa	54	86	-37.4%	NM	9	20	42	NM	14	15	21
Kansas	NM	27	NM	0	0	NM	20	0	0	1	7
Minnesota	625	556	12.5%	116	124	299	283	NM	9	204	141
Missouri	52	48	9.1%	NM	13	NM	18	17	15	1	NM
Nebraska	31	33	-5.3%	25	27	0	0	7	6	0	0
North Dakota	2	9	-75.5%	0	0	0	0	0	0	2	9
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	6,369	6,126	4.0%	604	591	2,172	2,041	96	122	3,498	3,373
Delaware	NM	24	NM	0	0	NM	20	0	0	NM	4
District of Columbia	18	0	--	0	0	18	0	0	0	0	0
Florida	1,759	1,518	15.9%	29	31	991	795	NM	20	722	672
Georgia	1,521	1,495	1.7%	0	0	208	215	0	4	1,312	1,276
Maryland	168	162	3.3%	0	0	122	121	NM	10	40	32
North Carolina	737	767	-4.0%	0	0	380	386	NM	22	338	359
South Carolina	871	781	11.5%	148	135	127	139	0	0	596	508
Virginia	1,271	1,377	-7.6%	426	426	306	363	54	66	485	522
West Virginia	1	NM	NM	0	0	1	NM	0	0	0	0
East South Central	1,999	2,048	-2.4%	NM	28	119	116	0	0	1,856	1,903
Alabama	1,045	1,056	-1.1%	0	0	88	85	0	0	957	971
Kentucky	134	166	-19.5%	NM	28	3	NM	0	0	107	136
Mississippi	493	508	-2.9%	0	0	NM	NM	0	0	489	504
Tennessee	327	317	3.2%	0	0	NM	25	0	0	303	292
West South Central	1,975	2,014	-1.9%	0	2	295	308	13	16	1,667	1,688
Arkansas	482	492	-2.1%	0	0	30	41	2	NM	450	450
Louisiana	852	865	-1.4%	0	0	29	30	0	0	823	834
Oklahoma	107	104	3.1%	0	0	2	NM	0	0	105	100
Texas	534	553	-3.5%	0	2	234	233	11	14	289	304
Mountain	355	353	0.7%	NM	NM	220	202	8	7	123	140
Arizona	NM	66	NM	0	0	NM	66	0	0	0	0
Colorado	56	34	67.6%	0	0	56	34	0	0	0	0
Idaho	182	205	-11.1%	NM	NM	59	65	4	3	116	134
Montana	7	7	1.0%	0	0	0	0	0	0	7	7
Nevada	NM	8	NM	0	0	NM	8	0	0	0	0
New Mexico	6	6	-3.6%	0	0	6	6	0	0	0	0
Utah	26	27	-3.5%	0	0	NM	23	4	4	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,939	2,971	-1.1%	229	237	1,614	1,634	276	303	820	796
California	1,954	1,990	-1.8%	55	65	1,446	1,464	260	291	194	170
Oregon	337	326	3.1%	NM	22	131	130	NM	6	177	169
Washington	648	654	-1.0%	155	150	38	40	NM	6	450	457
Pacific Noncontiguous	91	131	-30.8%	18	11	0	0	71	81	NM	40
Alaska	13	20	-36.3%	0	0	0	0	11	17	NM	3
Hawaii	78	111	-29.8%	18	11	0	0	60	64	0	37
U.S. Total	20,509	20,572	-0.3%	1,451	1,453	8,867	8,977	795	861	9,396	9,280

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	401	359	11.7%	24	16	378	344	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	8	NM	NM	0	0	8	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	346	313	10.4%	0	0	346	313	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	46	37	23.8%	24	16	23	22	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,080	962	12.3%	69	49	1,011	913	0	0	0	0
California	1,057	946	11.8%	68	48	989	898	0	0	0	0
Oregon	22	16	39.9%	1	NM	22	15	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	19	15.8%	0	0	22	19	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	19	15.8%	0	0	22	19	0	0	0	0
U.S. Total	1,503	1,340	12.2%	92	65	1,410	1,275	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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	1,573	1,528	2.9%	93	84	1,480	1,443	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	32	32	0.5%	0	0	32	32	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,355	1,317	2.9%	0	0	1,355	1,317	0	0	0	0
New Mexico	5	5	5.6%	0	0	5	5	0	0	0	0
Utah	181	174	3.9%	93	84	88	89	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,287	4,039	6.1%	257	261	4,030	3,778	0	0	0	0
California	4,202	3,965	6.0%	256	256	3,946	3,710	0	0	0	0
Oregon	85	74	15.6%	1	NM	84	68	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	85	76	11.5%	0	0	85	76	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	85	76	11.5%	0	0	85	76	0	0	0	0
U.S. Total	5,945	5,643	5.3%	350	346	5,595	5,298	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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	299	223	33.9%	88	59	210	164	6	NM	81	56	NM	NM	NM	NM	116	90	9	8	0	0	9	8	85	67
Connecticut	43	31	37.7%	4	NM	39	29	0	NM	NM	NM	15	12	0	0	15	12	2	1	0	0	2	1	22	16
Maine	4	3	36.0%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Massachusetts	214	168	27.4%	72	50	142	118	NM	NM	70	49	NM	NM	NM	NM	90	72	6	6	0	0	6	6	46	40
New Hampshire	9	5	80.0%	0	0	9	5	0	0	0	0	3	1	0	0	3	1	0	0	0	0	0	0	5	3
Rhode Island	NM	3	NM	NM	NM	5	2	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Vermont	23	13	77.3%	11	5	12	8	NM	NM	6	5	5	3	0	0	5	3	0	0	0	0	0	0	7	5
Middle Atlantic	450	366	22.9%	122	94	328	272	9	8	97	73	177	162	14	11	163	151	NM	NM	NM	NM	17	15	149	106
New Jersey	277	234	18.6%	96	75	181	159	9	8	73	55	120	117	13	11	107	106	NM	NM	NM	NM	10	8	64	45
New York	131	99	32.0%	19	14	112	85	0	0	19	14	NM	NM	NM	NM	41	32	1	1	0	0	1	1	70	52
Pennsylvania	42	34	25.7%	6	5	36	28	0	0	5	4	NM	NM	NM	NM	15	13	NM	NM	NM	NM	6	6	15	10
East North Central	81	54	50.0%	50	31	32	23	14	6	35	25	NM	NM	NM	NM	19	16	NM	NM	0	NM	NM	NM	11	6
Illinois	9	8	12.5%	4	4	4	3	0	NM	4	4	2	2	0	0	2	2	0	0	0	0	0	0	2	1
Indiana	33	21	59.1%	31	20	2	1	12	NM	20	16	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Michigan	NM	6	NM	NM	NM	NM	5	NM	NM	0	0	4	3	0	0	4	3	NM	NM	0	0	NM	NM	3	1
Ohio	24	16	45.0%	11	6	13	11	NM	NM	10	4	NM	NM	NM	NM	10	8	NM	NM	0	NM	NM	0	3	2
Wisconsin	NM	3	NM	NM	NM	5	3	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	1
West North Central	85	29	193.5%	52	NM	33	25	NM	0	51	NM	18	NM	0	NM	18	14	1	0	0	0	1	0	14	11
Iowa	NM	5	NM	NM	0	8	5	NM	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	2	2
Kansas	1	1	32.0%	0	NM	1	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Minnesota	51	5	NM	45	NM	5	4	NM	0	45	NM	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Missouri	23	18	30.3%	5	NM	19	15	0	0	5	NM	10	NM	0	NM	10	9	0	0	0	0	0	0	8	7
Nebraska	NM	0	NM	NM	0	0	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	15.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,010	550	83.6%	825	414	185	136	139	38	674	365	85	92	12	11	73	81	22	5	0	0	22	5	89	51
Delaware	17	15	17.3%	5	4	13	11	NM	NM	4	3	NM	NM	NM	NM	7	7	1	0	0	0	1	0	5	4
District of Columbia	7	5	41.0%	0	0	7	5	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	2	1
Florida	91	37	149.2%	64	14	27	23	58	9	6	5	NM	NM	NM	NM	9	12	1	1	0	0	1	1	17	10
Georgia	NM	73	NM	200	57	NM	NM	26	6	174	51	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	0
Maryland	106	82	29.6%	25	21	81	60	NM	NM	24	20	NM	NM	NM	NM	31	29	4	3	0	0	4	3	46	28
North Carolina	516	332	55.6%	498	317	18	15	42	22	445	285	24	21	11	10	13	11	0	0	0	0	0	0	5	3
South Carolina	NM	2	NM	NM	NM	12	2	0	0	NM	NM	3	0	0	0	3	0	NM	0	0	0	NM	0	9	1
Virginia	36	4	710.2%	29	NM	7	4	12	NM	17	0	3	2	0	0	3	2	NM	NM	0	0	NM	NM	4	2
West Virginia	1	1	27.3%	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	45	15	208.5%	32	6	13	8	4	0	28	6	NM	NM	NM	NM	9	8	NM	0	0	0	NM	0	4	0
Alabama	NM	0	NM	18	0	NM	0	NM	0	16	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	4	2	125.3%	2	0	2	2	2	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Mississippi	NM	0	NM	NM	0	4	0	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0
Tennessee	18	12	48.0%	12	6	6	6	0	0	11	6	NM	NM	NM	NM	6	6	0	0	0	0	0	0	0	0
West South Central	279	107	160.4%	195	58	84	50	NM	NM	194	57	25	NM	0	NM	24	14	NM	0	0	0	NM	0	60	36
Arkansas	4	3	11.2%	3	NM	1	1	NM	NM	3	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	20	18	12.2%	0	0	20	18	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	19	17
Oklahoma	3	1	171.2%	0	1	2	0	0	1	0	0	1	0	0	0	1	0	NM	0	0	0	NM	0	NM	0
Texas	252	85	198.3%	192	54	61	30	0	0	191	54	22	NM	0	NM	22	12	0	0	0	0	0	0	39	18
Mountain	1,453	856	69.8%	1,158	601	295	255	88	73	1,060	518	88	97	10	10	78	88	16	NM	0	NM	16	18	201	149
Arizona	560	429	30.6%	387	277	173	152	61	48	324	227	NM	51	NM	2	48	50	13	15	0	0	13	15	112	87
Colorado	132	77	71.8%	83	35	49	42	0	0	82	34	NM	NM	NM	NM	20	18	0	0	0	0	0	0	29	23
Idaho	52	1	NM	50	0	1	1	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	1	1	37.3%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	379	224	69.3%	346	191	33	33	4	NM	334	181	10	15	7	7	3	9	2	NM	0	NM	2	2	28	22
New Mexico	119	80	49.9%	108	64	12	15	23	22	85	43	1	7	0	0	1	7	0	0	0	0	0	0	11	8
Utah	209	44	372.0%	184	33	25	11	0	0	184	33	6	4	0	0	6	4	1	1	0	0	1	1	18	7
Wyoming	NM	0	NM	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	2,972	2,169	37.0%	1,969	1,403	1,003	766	48	43	1,909	1,349	239	188	12	10	228	177	NM	NM	NM	NM	160	117	616	472
California	2,923	2,146	36.3%	1,949	1,399	975	747	48	42	1,889	1,345	230	182	12	10	218	172	NM	NM	NM	NM	158	117	598	458
Oregon	38	15	156.5%	21	4	17	11	NM	NM	20	NM	8	5	0	0	8	5	1	0	0	0	1	0	8	6
Washington	11	9	27.4%	0	0	11	9	0	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	9	7
Pacific Noncontiguous	99	70	41.9%	14	7	85	63	4	NM	10	3	31	21	0	0	31	21	0	0	0	0	0	0	54	42
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	99	70	41.6%	14	7	85	63	4	NM	10	3	31	21	0	0	31	21	0	0	0	0	0	0	53	42
U.S. Total	6,774	4,439	52.6%	4,506	2,676	2,268	1,763	315	175	4,139	2,455	809	705	50	44	760	661	NM	NM	NM	NM	226	164	1,282	939

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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	910	722	26.1%	260	219	650	503	19	6	238	212	374	290	NM	NM	372	288	29	24	0	0	29	24	249	190
Connecticut	131	96	36.6%	12	6	119	90	1	NM	NM	6	49	37	0	0	49	37	6	4	0	0	6	4	64	48
Maine	12	9	35.6%	0	0	12	9	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	8	5
Massachusetts	656	549	19.5%	209	189	447	360	NM	4	204	183	292	233	NM	NM	290	231	21	19	0	0	21	19	135	110
New Hampshire	26	14	81.4%	0	0	26	14	0	0	0	0	9	4	0	0	9	4	2	1	0	0	2	1	16	9
Rhode Island	18	11	55.0%	NM	5	13	6	0	0	NM	5	7	4	0	0	7	4	0	0	0	0	0	0	6	2
Vermont	67	42	58.2%	34	19	34	24	NM	NM	19	17	13	8	0	0	13	8	0	0	0	0	0	0	20	16
Middle Atlantic	1,394	1,195	16.7%	367	341	1,028	854	27	31	292	262	581	536	43	45	538	491	60	54	NM	4	56	50	434	313
New Jersey	881	785	12.3%	291	273	590	512	27	31	222	198	407	395	41	43	367	352	35	28	NM	NM	32	27	190	133
New York	384	298	29.0%	56	47	328	251	0	0	55	46	126	99	NM	NM	124	98	4	4	0	0	4	4	200	148
Pennsylvania	129	113	14.7%	19	22	110	91	0	0	16	18	48	42	NM	NM	47	40	22	21	NM	NM	20	19	44	32
East North Central	242	181	33.7%	151	113	91	68	43	19	107	92	56	49	NM	NM	55	48	5	3	0	NM	5	2	30	18
Illinois	27	26	2.7%	14	16	13	10	1	NM	13	15	7	7	0	0	7	7	0	0	0	0	0	0	6	3
Indiana	101	76	33.4%	94	72	7	4	35	11	59	60	3	2	0	0	3	2	0	0	0	0	0	0	3	2
Michigan	25	16	52.9%	NM	NM	19	13	NM	NM	0	0	12	9	0	0	12	9	0	0	0	0	0	0	7	4
Ohio	70	53	32.8%	33	22	37	31	NM	NM	30	16	29	25	NM	NM	28	25	2	3	0	NM	2	1	8	6
Wisconsin	19	10	91.7%	NM	NM	14	10	0	0	NM	NM	6	5	0	0	6	5	3	0	0	0	3	0	6	4
West North Central	259	91	183.0%	158	12	101	79	NM	0	155	12	55	46	0	NM	55	45	2	1	0	0	2	1	43	33
Iowa	23	16	48.3%	NM	0	22	16	NM	0	0	0	15	11	0	0	15	11	1	0	0	0	1	0	6	5
Kansas	4	4	25.8%	1	NM	4	3	0	0	1	NM	1	1	0	0	1	1	0	0	0	0	0	0	3	1
Minnesota	152	13	NM	138	NM	14	10	NM	0	137	NM	6	5	0	0	6	5	1	1	0	0	1	1	7	4
Missouri	73	58	25.4%	14	9	59	49	0	0	13	8	32	28	0	NM	32	28	0	0	0	0	0	0	27	22
Nebraska	5	1	554.3%	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
North Dakota	0	0	12.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	0	265.4%	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	3,062	1,802	70.0%	2,475	1,375	587	427	441	133	1,998	1,203	292	303	35	39	257	264	62	14	0	0	62	14	269	149
Delaware	55	49	11.2%	14	15	41	34	NM	NM	12	13	24	23	NM	NM	24	22	2	1	0	0	2	1	16	10
District of Columbia	23	15	54.1%	0	0	23	15	0	0	0	0	16	10	0	0	16	10	0	0	0	0	0	0	7	4
Florida	316	124	154.6%	224	47	92	77	205	26	18	20	36	42	NM	NM	35	41	3	2	0	0	3	2	55	34
Georgia	682	237	187.7%	616	183	66	54	82	21	533	161	19	53	NM	NM	18	52	43	0	0	0	43	0	4	1
Maryland	326	248	31.5%	76	69	250	178	NM	NM	72	65	106	95	NM	NM	105	93	12	9	0	0	12	9	134	76
North Carolina	1,507	1,107	36.1%	1,447	1,059	60	49	113	80	1,302	943	74	73	32	35	43	37	1	1	0	0	1	1	16	10
South Carolina	44	6	610.1%	NM	NM	33	5	0	0	NM	NM	7	1	0	0	7	1	1	0	0	0	1	0	25	4
Virginia	109	14	692.3%	88	NM	21	13	37	NM	51	0	9	5	0	0	9	5	0	0	0	0	0	0	12	7
West Virginia	2	2	28.0%	0	0	2	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
East South Central	127	50	152.8%	92	23	35	27	7	0	84	22	28	27	NM	NM	27	26	0	0	0	0	0	0	8	1
Alabama	51	1	NM	50	0	2	1	NM	0	48	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Kentucky	11	5	118.2%	5	0	6	5	5	0	0	0	4	4	0	0	4	4	0	0	0	0	0	0	2	1
Mississippi	10	2	558.3%	NM	0	8	2	0	0	NM	0	3	1	0	0	3	1	0	0	0	0	0	0	5	0
Tennessee	55	43	28.6%	35	23	20	20	0	0	34	22	20	20	NM	NM	19	20	0	0	0	0	0	0	0	0
West South Central	756	373	102.8%	505	214	251	158	NM	2	502	212	70	47	1	NM	70	46	0	0	0	0	0	0	181	112
Arkansas	11	11	4.9%	8	9	3	2	NM	NM	8	8	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Louisiana	66	58	13.1%	0	0	66	58	0	0	0	0	4	4	0	0	4	4	0	0	0	0	0	0	62	55
Oklahoma	8	3	129.2%	2	2	6	2	2	2	0	0	3	1	0	0	3	1	0	0	0	0	0	0	3	1
Texas	671	300	123.4%	495	204	176	96	0	0	494	203	62	41	1	NM	61	41	0	0	0	0	0	0	115	56
Mountain	4,369	2,861	52.7%	3,403	2,014	965	847	251	240	3,122	1,740	313	334	30	33	283	301	57	65	0	NM	57	64	626	481
Arizona	1,720	1,450	18.6%	1,156	938	564	512	172	156	978	775	173	178	NM	6	167	172	46	54	0	0	46	54	351	286
Colorado	407	262	55.3%	250	123	157	139	0	0	246	118	68	67	NM	4	65	63	1	1	0	0	1	1	91	76
Idaho	112	2	NM	108	0	4	2	0	0	108	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Montana	4	3	34.5%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Nevada	1,121	728	54.1%	1,017	624	104	104	12	10	984	590	33	52	21	23	12	29	7	8	0	NM	7	7	85	68
New Mexico	375	271	38.4%	318	219	57	52	67	74	250	145	20	25	0	0	20	25	0	0	0	0	0	0	37	27
Utah	628	145	333.7%	555	112	74	33	0	0	555	112	17	11	0	0	17	11	2	2	0	0	2	2	55	20
Wyoming	1	1	24.7%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	8,838	6,796	30.1%	5,781	4,426	3,057	2,370	140	149	5,605	4,238	741	598	34	37	708	561	486	368	NM	NM	483	365	1,866	1,444
California	8,706	6,732	29.3%	5,720	4,413	2,986	2,319	138	147	5,546	4,227	719	583	34	37	685	546	483	367	NM	NM	480	364	1,820	1,410
Oregon	103	41	152.1%	61	13	42	28	NM	NM	59	11	18	12	0	0	18	12	3	1	0	0	3	1	22	15
Washington	29	23	28.0%	0	0	29	22	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	24	19
Pacific Noncontiguous	322	247	30.2%	34	24	288	224	14	14	20	10	104	76	0	0	104	76	1	1	0	0	1	1	184	147
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	322	247	30.0%	34	24	288	224	14	14	20	10	104	76	0	0	104	76	1	1	0	0	1	1	184	147
U.S. Total	20,279	14,318	41.6%	13,226	8,762	7,054	5,556	949	593	12,122	8,002	2,616	2,304	147	158	2,469	2,146	703	529	NM	9	695	520	3,889	2,889

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, April 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	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	11	-100.0%	0	11	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	11	-100.0%	0	11	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	103	68	51.2%	0	0	103	68	0	0	0	0
Arizona	90	57	56.3%	0	0	90	57	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	13	11	24.3%	0	0	13	11	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	207	194	6.9%	0	0	207	194	0	0	0	0
California	207	194	6.9%	0	0	207	194	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	310	273	13.5%	0	11	310	262	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 April 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	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	25	-99.3%	0	25	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	25	-99.3%	0	25	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	256	226	13.5%	0	0	256	226	0	0	0	0
Arizona	226	180	25.8%	0	0	226	180	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	30	46	-34.3%	0	0	30	46	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	576	607	-5.1%	0	0	576	607	0	0	0	0
California	576	607	-5.1%	0	0	576	607	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	833	858	-2.9%	0	25	832	833	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-April 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
Year to Date					
2015	245,430	176,841	67,215	65	1,309
2016	191,461	142,925	47,310	54	1,173
2017	205,067	150,409	53,558	48	1,051
Rolling 12 Months Ending in April					
2016	685,625	505,590	176,021	151	3,862
2017	691,610	505,654	182,559	142	3,255

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-April 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
Year to Date					
2015	5,944	365	684	266	4,629
2016	5,319	390	604	224	4,101
2017	4,591	398	549	156	3,488
Rolling 12 Months Ending in April					
2016	16,007	1,056	1,900	594	12,457
2017	13,536	1,069	1,678	476	10,313

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.
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-April 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
Year to Date					
2015	251,374	177,206	67,899	331	5,938
2016	196,780	143,315	47,914	278	5,274
2017	209,657	150,807	54,107	204	4,539
Rolling 12 Months Ending in April					
2016	701,632	506,646	177,921	745	16,320
2017	705,146	506,723	184,237	618	13,568

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-April 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
Year to Date					
2015	15,189	8,084	6,674	158	274
2016	7,126	5,147	1,780	42	157
2017	6,679	5,227	1,206	79	168
Rolling 12 Months Ending in April					
2016	20,862	15,625	4,580	NM	524
2017	20,778	15,748	4,267	168	595

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.
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-April 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
Year to Date					
2015	1,419	55	442	201	721
2016	831	13	320	48	450
2017	786	9	299	91	386
Rolling 12 Months Ending in April					
2016	2,553	20	1,033	NM	1,371
2017	2,490	16	994	169	1,311

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.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	16,608	8,139	7,115	358	995
2016	7,957	5,160	2,100	91	607
2017	7,465	5,236	1,505	170	554
Rolling 12 Months Ending in April					
2016	23,416	15,645	5,613	NM	1,895
2017	23,268	15,764	5,261	337	1,906

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.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2007-April 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
Year to Date					
2015	1,390	1,051	232	1	106
2016	1,426	1,182	163	1	80
2017	1,059	843	155	1	60
Rolling 12 Months Ending in April					
2016	4,080	3,250	600	2	228
2017	3,908	3,092	592	1	223

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.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	415	2	37	8	369
2016	345	1	36	6	302
2017	301	1	37	6	258
Rolling 12 Months Ending in April					
2016	1,075	8	108	15	944
2017	972	2	106	9	856

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 Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	1,805	1,054	268	9	474
2016	1,771	1,183	199	7	383
2017	1,360	844	191	6	318
Rolling 12 Months Ending in April					
2016	5,155	3,258	709	17	1,172
2017	4,880	3,094	698	10	1,079

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.
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-April 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
Year to Date					
2015	2,850,073	1,356,413	1,279,807	19,929	193,924
2016	3,049,301	1,487,328	1,334,243	21,593	206,137
2017	2,611,272	1,277,645	1,102,061	22,463	209,103
Rolling 12 Months Ending in April					
2016	10,215,803	4,876,170	4,631,119	71,757	636,758
2017	9,962,160	4,835,831	4,409,899	69,510	646,921

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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	305,441	2,306	94,147	15,389	193,598
2016	320,285	3,890	95,703	16,932	203,760
2017	325,864	3,635	87,067	17,467	217,696
Rolling 12 Months Ending in April					
2016	949,943	9,643	284,928	47,830	607,541
2017	962,503	10,972	276,068	48,482	626,982

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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	3,155,514	1,358,720	1,373,954	35,318	387,522
2016	3,369,586	1,491,217	1,429,947	38,525	409,897
2017	2,937,136	1,281,280	1,189,128	39,930	426,799
Rolling 12 Months Ending in April					
2016	11,165,746	4,885,813	4,916,047	119,587	1,244,299
2017	10,924,663	4,846,803	4,685,966	117,991	1,273,903

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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2007-April 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
Year to Date					
2015	88,280	8,400	70,230	8,205	1,445
2016	109,173	10,098	87,963	9,256	1,855
2017	89,560	8,350	73,074	6,441	1,694
Rolling 12 Months Ending in April					
2016	303,422	26,955	245,114	26,301	5,051
2017	309,904	28,757	253,543	22,524	5,080

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 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	466	1	179	173	114
2016	1,874	2	1,054	420	397
2017	911	1	536	232	142
Rolling 12 Months Ending in April					
2016	2,930	3	1,519	762	646
2017	3,269	4	1,862	779	623

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 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	88,746	8,401	70,409	8,378	1,559
2016	111,047	10,100	89,018	9,676	2,252
2017	90,470	8,351	73,610	6,673	1,835
Rolling 12 Months Ending in April					
2016	306,352	26,959	246,633	27,063	5,697
2017	313,173	28,761	255,406	23,303	5,703

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2007-April 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
Year to Date					
2015	5,172	124	4,299	748	2
2016	5,196	142	4,304	746	4
2017	5,294	124	4,407	763	0
Rolling 12 Months Ending in April					
2016	16,655	471	13,801	2,373	10
2017	16,164	446	13,458	2,257	4

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.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	661	0	227	366	69
2016	696	0	265	377	55
2017	720	0	221	429	69
Rolling 12 Months Ending in April					
2016	2,021	0	694	1,138	189
2017	1,997	0	614	1,201	182

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-April 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
Year to Date					
2015	5,833	124	4,526	1,113	70
2016	5,892	142	4,569	1,122	59
2017	6,013	124	4,628	1,192	70
Rolling 12 Months Ending in April					
2016	18,675	471	14,495	3,511	200
2017	18,162	446	14,073	3,458	185

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

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2007-April 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
Year to Date					
2015	134,209	13,597	57,774	193	62,645
2016	126,787	14,442	52,004	189	60,152
2017	126,093	13,796	51,229	218	60,849
Rolling 12 Months Ending in April					
2016	399,228	44,764	165,618	500	188,348
2017	380,924	42,461	152,495	701	185,266

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-April 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
Year to Date					
2015	314,738	3,170	6,942	1,379	303,247
2016	306,844	3,338	6,261	1,500	295,745
2017	308,231	3,062	7,078	1,496	296,595
Rolling 12 Months Ending in April					
2016	936,067	9,519	18,519	3,835	904,194
2017	926,172	8,193	17,833	4,317	895,829

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 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, April 2017 and April 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	29	64	-55.0%	1	4	27	60	0	0	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	NM	1	NM	0	0	1	1	0	0	NM	0
Massachusetts	27	60	-55.0%	0	0	27	59	0	0	0	NM
New Hampshire	1	4	-82.0%	1	4	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	1,526	1,641	-7.0%	0	0	1,514	1,625	0	0	12	16
New Jersey	30	36	-16.0%	0	0	30	36	0	0	0	0
New York	15	15	2.4%	0	0	10	8	0	0	5	6
Pennsylvania	1,481	1,591	-6.9%	0	0	1,474	1,581	0	0	7	NM
East North Central	10,517	9,433	11.0%	6,266	5,384	4,185	3,987	2	NM	64	61
Illinois	2,515	2,517	-0.1%	131	117	2,331	2,356	2	NM	52	43
Indiana	2,274	2,535	-10.0%	2,223	2,426	51	108	0	NM	0	NM
Michigan	2,082	1,307	59.0%	2,058	1,282	21	21	0	0	NM	NM
Ohio	2,430	2,073	17.0%	647	566	1,782	1,502	0	0	NM	5
Wisconsin	1,216	1,002	21.0%	1,207	992	0	0	0	0	9	10
West North Central	7,353	6,513	13.0%	7,258	6,422	0	NM	2	NM	93	85
Iowa	1,041	501	108.0%	995	452	0	0	1	NM	44	46
Kansas	510	759	-33.0%	510	759	0	0	0	0	0	0
Minnesota	708	746	-5.1%	688	727	0	0	0	NM	19	NM
Missouri	2,821	2,422	16.0%	2,821	2,420	0	NM	0	1	0	NM
Nebraska	700	710	-1.4%	675	694	0	0	0	0	25	NM
North Dakota	1,517	1,270	19.0%	1,513	1,266	0	0	0	0	NM	NM
South Dakota	56	105	-47.0%	56	105	0	0	0	0	0	0
South Atlantic	6,764	5,968	13.0%	6,144	5,373	606	574	2	NM	12	20
Delaware	5	0	--	0	0	5	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,444	1,110	30.0%	1,442	1,077	0	31	0	0	2	NM
Georgia	1,400	865	62.0%	1,397	862	0	0	0	0	3	3
Maryland	73	295	-75.0%	0	0	72	293	0	0	1	2
North Carolina	995	549	81.0%	987	539	4	NM	0	1	3	2
South Carolina	681	612	11.0%	680	608	0	0	0	0	0	4
Virginia	367	403	-9.0%	354	396	9	2	1	NM	3	5
West Virginia	1,800	2,134	-16.0%	1,283	1,892	517	240	0	0	0	3
East South Central	4,254	4,094	3.9%	4,015	4,021	226	56	0	0	13	17
Alabama	1,131	966	17.0%	1,130	965	0	0	0	0	1	2
Kentucky	1,834	2,197	-17.0%	1,834	2,197	0	0	0	0	0	0
Mississippi	326	85	285.0%	101	28	226	56	0	0	0	0
Tennessee	963	846	14.0%	951	831	0	0	0	0	12	15
West South Central	8,452	6,168	37.0%	3,232	3,080	5,207	3,076	0	0	14	12
Arkansas	939	706	33.0%	938	553	0	153	0	0	1	1
Louisiana	383	390	-1.9%	130	243	253	147	0	0	0	0
Oklahoma	505	471	7.2%	418	438	74	22	0	0	13	NM
Texas	6,625	4,599	44.0%	1,745	1,846	4,880	2,753	0	0	0	0
Mountain	5,471	5,028	8.8%	4,838	4,373	622	621	0	0	11	NM
Arizona	965	920	4.8%	965	920	0	0	0	0	0	0
Colorado	1,038	1,054	-1.4%	1,038	1,052	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	539	580	-7.0%	17	NM	523	569	0	0	0	NM
Nevada	40	43	-6.6%	0	29	40	13	0	0	0	0
New Mexico	803	417	92.0%	803	417	0	0	0	0	0	0
Utah	649	602	7.9%	634	565	15	NM	0	0	0	23
Wyoming	1,436	1,412	1.7%	1,382	1,379	45	NM	0	0	10	NM
Pacific Contiguous	5	7	-20.0%	0	0	0	0	0	0	5	7
California	5	6	-22.0%	0	0	0	0	0	0	5	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	1	2.5%	0	0	0	0	0	0	1	1
Pacific Noncontiguous	83	73	14.0%	NM	6	61	63	NM	NM	0	NM
Alaska	29	19	54.0%	NM	6	NM	NM	NM	NM	0	0
Hawaii	54	54	-0.7%	0	0	54	53	0	0	0	NM
U.S. Total	44,455	38,989	14.0%	31,772	28,663	12,449	10,062	8	11	225	254

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	639	546	17.0%	47	72	589	472	0	0	NM	2
Connecticut	54	38	40.0%	0	0	54	38	0	0	0	0
Maine	NM	6	NM	0	0	5	5	0	0	NM	1
Massachusetts	530	430	23.0%	0	0	530	429	0	0	0	NM
New Hampshire	47	72	-35.0%	47	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	7,578	8,416	-10.0%	0	0	7,518	8,339	0	0	59	76
New Jersey	169	179	-5.6%	0	0	169	179	0	0	0	0
New York	157	230	-32.0%	0	0	134	208	0	0	23	22
Pennsylvania	7,251	8,006	-9.4%	0	0	7,215	7,952	0	0	37	54
East North Central	46,586	43,117	8.0%	27,999	26,255	18,307	16,571	8	12	273	279
Illinois	11,104	10,497	5.8%	746	565	10,140	9,743	6	5	212	184
Indiana	11,198	11,287	-0.8%	10,793	10,494	403	790	1	3	0	NM
Michigan	8,017	7,373	8.7%	7,915	7,265	87	79	0	4	NM	26
Ohio	9,971	8,664	15.0%	2,290	2,683	7,677	5,960	0	0	NM	21
Wisconsin	6,297	5,297	19.0%	6,255	5,249	0	0	0	0	42	48
West North Central	36,518	34,748	5.1%	36,038	34,270	0	4	17	19	462	455
Iowa	4,321	3,922	10.0%	4,108	3,675	0	0	9	11	204	236
Kansas	3,651	3,914	-6.7%	3,651	3,914	0	0	0	0	0	0
Minnesota	4,329	4,206	2.9%	4,212	4,116	0	0	4	2	114	88
Missouri	12,585	11,463	9.8%	12,580	11,450	0	4	5	6	0	NM
Nebraska	4,012	3,954	1.5%	3,889	3,850	0	0	0	0	123	104
North Dakota	7,204	6,817	5.7%	7,182	6,794	0	0	0	0	NM	23
South Dakota	416	473	-12.0%	416	473	0	0	0	0	0	0
South Atlantic	27,797	29,345	-5.3%	25,065	25,681	2,662	3,557	9	8	62	99
Delaware	33	99	-67.0%	0	0	33	99	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,453	4,212	29.0%	5,442	4,159	0	41	0	0	11	12
Georgia	4,718	4,927	-4.2%	4,703	4,911	0	0	0	0	15	15
Maryland	774	1,731	-55.0%	0	0	767	1,724	0	0	7	7
North Carolina	3,896	3,624	7.5%	3,859	3,589	20	NM	4	6	12	12
South Carolina	2,407	2,763	-13.0%	2,404	2,744	0	0	0	0	3	19
Virginia	1,748	2,467	-29.0%	1,662	2,376	68	68	4	2	14	20
West Virginia	8,767	9,523	-7.9%	6,994	7,901	1,774	1,608	0	0	0	14
East South Central	19,536	19,915	-1.9%	18,588	18,969	894	872	0	0	54	74
Alabama	5,040	4,647	8.5%	5,033	4,639	0	0	0	0	6	8
Kentucky	9,314	10,261	-9.2%	9,314	10,261	0	0	0	0	0	0
Mississippi	1,278	1,200	6.5%	384	327	894	872	0	0	0	0
Tennessee	3,904	3,808	2.5%	3,856	3,742	0	0	0	0	48	66
West South Central	36,642	28,066	31.0%	17,125	14,359	19,461	13,651	0	0	56	56
Arkansas	4,590	3,525	30.0%	4,247	2,740	339	781	0	0	4	5
Louisiana	2,447	2,310	5.9%	1,337	1,762	1,109	548	0	0	0	0
Oklahoma	3,096	3,015	2.7%	2,785	2,652	259	311	0	0	52	51
Texas	26,509	19,216	38.0%	8,757	7,205	17,752	12,011	0	0	0	0
Mountain	28,529	26,424	8.0%	25,139	23,034	3,334	3,290	0	0	56	100
Arizona	4,980	4,419	13.0%	4,980	4,419	0	0	0	0	0	0
Colorado	5,350	4,953	8.0%	5,347	4,948	0	5	0	0	3	1
Idaho	NM	5	NM	0	0	0	0	0	0	NM	5
Montana	2,937	2,977	-1.3%	92	NM	2,843	2,915	0	0	2	NM
Nevada	336	275	22.0%	151	144	184	131	0	0	0	0
New Mexico	3,794	2,710	40.0%	3,794	2,710	0	0	0	0	0	0
Utah	3,501	3,545	-1.2%	3,376	3,411	125	97	0	0	0	37
Wyoming	7,626	7,540	1.1%	7,397	7,343	182	141	0	0	47	56
Pacific Contiguous	905	467	94.0%	334	185	546	255	0	0	25	28
California	23	25	-8.5%	0	0	0	0	0	0	23	25
Oregon	334	185	81.0%	334	185	0	0	0	0	0	0
Washington	548	258	113.0%	0	0	546	255	0	0	2	3
Pacific Noncontiguous	337	417	-19.0%	NM	100	248	300	NM	14	0	3
Alaska	132	177	-25.0%	NM	100	NM	63	NM	14	0	0
Hawaii	204	239	-15.0%	0	0	204	237	0	0	0	3
U.S. Total	205,067	191,461	7.1%	150,409	142,925	53,558	47,310	48	54	1,051	1,173

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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, April 2017 and April 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	31	31	-0.3%	7	11	18	14	5	NM	NM	NM
Connecticut	NM	NM	NM	1	1	NM	5	NM	NM	0	NM
Maine	7	5	34.0%	0	NM	5	4	1	NM	NM	NM
Massachusetts	9	NM	NM	NM	2	NM	NM	3	NM	0	NM
New Hampshire	5	7	-40.0%	4	7	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	1	1	NM	NM	0	NM	0	0
Vermont	1	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	55	84	-35.0%	NM	NM	35	66	NM	NM	6	7
New Jersey	NM	NM	NM	NM	NM	NM	NM	0	NM	0	NM
New York	25	34	-26.0%	NM	NM	NM	20	NM	NM	5	4
Pennsylvania	25	47	-47.0%	0	NM	23	44	1	NM	NM	2
East North Central	65	78	-16.0%	45	47	18	28	1	1	1	3
Illinois	7	12	-37.0%	1	1	7	10	0	0	0	0
Indiana	22	19	13.0%	21	17	0	NM	0	NM	1	2
Michigan	12	16	-25.0%	11	15	0	0	0	0	0	NM
Ohio	21	26	-18.0%	10	8	11	17	0	NM	0	NM
Wisconsin	NM	5	NM	NM	5	0	0	0	NM	NM	NM
West North Central	46	27	75.0%	45	26	1	0	0	NM	0	NM
Iowa	9	6	47.0%	8	6	NM	NM	0	NM	0	NM
Kansas	18	7	174.0%	18	7	0	0	0	0	0	0
Minnesota	5	3	67.0%	4	2	0	0	0	NM	0	NM
Missouri	9	7	21.0%	9	7	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	2	2	8.3%	2	2	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	299	174	71.0%	266	125	25	41	2	NM	6	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	126	49	159.0%	125	46	NM	NM	0	0	NM	1
Georgia	20	29	-32.0%	13	26	NM	NM	0	NM	2	2
Maryland	8	24	-66.0%	NM	1	8	22	0	NM	0	NM
North Carolina	58	23	151.0%	53	22	NM	NM	0	NM	1	NM
South Carolina	27	10	180.0%	25	7	0	NM	NM	NM	2	3
Virginia	39	23	72.0%	33	6	5	16	1	NM	NM	1
West Virginia	18	17	7.9%	18	16	0	0	0	0	0	0
East South Central	37	36	4.0%	36	34	NM	NM	0	NM	NM	NM
Alabama	5	NM	NM	3	1	NM	NM	0	0	NM	NM
Kentucky	17	16	5.0%	17	16	0	0	0	0	0	0
Mississippi	NM	2	NM	NM	2	0	0	0	0	0	0
Tennessee	13	16	-14.0%	13	15	0	NM	0	NM	0	NM
West South Central	18	21	-18.0%	11	13	5	8	0	NM	1	NM
Arkansas	2	2	3.2%	NM	2	0	0	0	0	0	0
Louisiana	NM	0	NM	NM	0	0	0	0	0	0	0
Oklahoma	2	2	-5.6%	1	1	0	0	0	NM	0	NM
Texas	11	17	-35.0%	5	9	5	8	0	NM	0	NM
Mountain	35	52	-34.0%	32	49	3	3	0	NM	0	NM
Arizona	8	19	-56.0%	8	19	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	-27.0%	NM	NM	2	2	0	0	0	0
Nevada	0	2	-80.0%	0	2	0	1	0	0	0	0
New Mexico	6	11	-47.0%	6	11	0	0	0	0	0	NM
Utah	9	7	23.0%	8	7	1	NM	0	0	0	NM
Wyoming	9	11	-17.0%	9	11	0	0	0	0	0	NM
Pacific Contiguous	9	8	5.4%	5	5	2	3	0	NM	1	1
California	7	7	2.0%	5	4	2	2	0	NM	0	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	2	1	25.0%	NM	NM	NM	NM	0	NM	1	1
Pacific Noncontiguous	893	807	11.0%	756	698	116	98	2	NM	19	10
Alaska	98	94	4.0%	93	88	0	0	NM	NM	5	6
Hawaii	796	714	11.0%	663	610	116	98	2	0	15	5
U.S. Total	1,487	1,319	13.0%	1,213	1,016	224	262	14	10	37	31

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	270	346	-22.0%	28	39	201	281	35	17	NM	9
Connecticut	NM	43	NM	3	3	NM	33	NM	NM	1	NM
Maine	50	149	-67.0%	0	NM	43	142	2	NM	NM	6
Massachusetts	129	119	8.3%	NM	16	NM	96	20	NM	0	NM
New Hampshire	17	15	11.0%	12	12	NM	NM	5	3	0	NM
Rhode Island	NM	18	NM	5	6	NM	10	6	NM	0	0
Vermont	3	NM	NM	3	NM	0	0	0	NM	0	0
Middle Atlantic	451	838	-46.0%	NM	268	293	532	NM	12	24	27
New Jersey	NM	90	NM	NM	NM	NM	87	0	NM	0	NM
New York	240	559	-57.0%	NM	266	NM	266	NM	10	17	17
Pennsylvania	159	189	-16.0%	0	NM	148	179	4	NM	NM	8
East North Central	264	350	-25.0%	166	221	89	118	2	2	7	8
Illinois	34	53	-36.0%	3	4	31	48	0	1	0	0
Indiana	63	79	-21.0%	58	73	0	NM	0	NM	4	6
Michigan	48	73	-35.0%	44	71	0	0	1	1	2	1
Ohio	100	121	-17.0%	42	51	58	68	0	NM	1	1
Wisconsin	NM	24	NM	NM	22	0	2	0	NM	NM	0
West North Central	199	145	37.0%	195	140	2	3	1	NM	1	1
Iowa	40	32	26.0%	39	31	NM	1	0	NM	0	NM
Kansas	49	30	63.0%	49	30	0	0	0	0	0	0
Minnesota	17	14	25.0%	14	10	2	3	1	NM	0	0
Missouri	38	45	-17.0%	38	45	0	NM	0	NM	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	33	18	91.0%	33	17	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,197	1,439	-17.0%	980	973	183	427	13	NM	21	35
Delaware	NM	68	NM	0	NM	NM	66	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	359	192	87.0%	354	181	NM	NM	0	0	NM	5
Georgia	73	114	-35.0%	49	67	NM	33	1	1	7	12
Maryland	59	177	-67.0%	NM	6	56	168	0	NM	1	1
North Carolina	247	237	4.1%	225	180	NM	54	0	NM	3	NM
South Carolina	103	104	-0.6%	95	89	1	NM	NM	NM	7	13
Virginia	265	487	-46.0%	181	388	71	97	12	NM	NM	1
West Virginia	74	60	23.0%	74	60	0	0	0	0	0	0
East South Central	163	186	-12.0%	152	167	NM	11	0	NM	NM	8
Alabama	28	42	-34.0%	19	24	NM	11	0	0	NM	7
Kentucky	70	65	7.4%	70	65	0	0	0	0	0	0
Mississippi	NM	14	NM	NM	13	0	0	0	0	0	0
Tennessee	56	65	-13.0%	55	64	0	NM	0	NM	0	0
West South Central	91	94	-3.1%	45	70	45	21	0	NM	2	3
Arkansas	26	21	24.0%	NM	18	18	2	0	0	1	1
Louisiana	NM	14	NM	NM	10	0	3	0	0	0	0
Oklahoma	9	10	-15.0%	8	10	0	0	0	NM	0	1
Texas	46	49	-7.3%	18	32	26	16	0	NM	1	NM
Mountain	148	150	-1.6%	131	139	17	11	0	NM	0	NM
Arizona	37	44	-17.0%	37	44	0	0	0	NM	0	0
Colorado	NM	7	NM	NM	7	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	14	9	53.0%	NM	NM	13	9	0	0	0	0
Nevada	2	6	-65.0%	0	5	2	1	0	0	0	0
New Mexico	33	42	-23.0%	33	42	0	0	0	0	0	NM
Utah	27	16	68.0%	25	15	1	NM	0	0	0	NM
Wyoming	28	26	9.5%	28	25	0	0	0	0	0	NM
Pacific Contiguous	54	32	68.0%	30	21	10	6	1	NM	14	5
California	33	25	33.0%	21	19	3	5	0	NM	9	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	16	7	125.0%	NM	NM	NM	1	0	NM	5	4
Pacific Noncontiguous	3,843	3,545	8.4%	3,386	3,109	362	369	7	5	88	62
Alaska	591	445	33.0%	561	418	0	0	NM	2	26	24
Hawaii	3,252	3,100	4.9%	2,826	2,691	362	369	3	3	62	38
U.S. Total	6,679	7,126	-6.3%	5,227	5,147	1,206	1,780	79	42	168	157

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	56	106	-47.0%	35	68	NM	33	0	0	2	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	34	-100.0%	0	34	0	0	0	0	0	0
Michigan	36	35	4.2%	35	31	0	0	0	0	2	4
Ohio	20	33	-41.0%	0	0	NM	33	0	0	0	0
Wisconsin	0	4	-93.0%	0	2	0	0	0	0	0	2
West North Central	0	2	-96.0%	0	0	0	0	0	0	0	NM
Iowa	0	2	-96.0%	0	0	0	0	0	0	0	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	8	76	-89.0%	8	74	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8	74	-89.0%	8	74	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	19	38	-51.0%	19	38	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	19	38	-51.0%	19	38	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	56	151	-63.0%	48	146	0	0	0	0	8	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	52	149	-65.0%	48	146	0	0	0	0	4	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	3	53.0%	0	0	0	0	0	0	4	3
Mountain	13	10	24.0%	0	0	13	10	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	10	24.0%	0	0	13	10	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	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	154	390	-60.0%	110	326	32	43	0	0	12	21

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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 April 2017 and April 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	NM	18	NM	0	0	0	0	0	0	NM	18
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	14	NM	0	0	0	0	0	0	NM	14
East North Central	249	368	-32.0%	141	242	NM	108	0	0	7	18
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	142	89	59.0%	135	76	0	1	0	0	7	11
Ohio	101	108	-6.3%	0	0	NM	107	0	0	0	1
Wisconsin	6	12	-52.0%	6	7	0	0	0	0	0	6
West North Central	7	10	-32.0%	0	0	0	0	1	1	6	9
Iowa	7	10	-32.0%	0	0	0	0	1	1	6	9
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	86	274	-69.0%	78	265	0	0	0	0	NM	9
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	78	265	-70.0%	78	265	0	0	0	0	0	0
Georgia	NM	9	NM	0	0	0	0	0	0	NM	9
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	98	134	-27.0%	98	134	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	98	134	-27.0%	98	134	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	551	568	-2.9%	527	541	0	0	0	0	24	26
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	538	552	-2.5%	527	541	0	0	0	0	11	11
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	13	16	-17.0%	0	0	0	0	0	0	13	16
Mountain	54	55	-1.7%	0	0	54	55	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	54	55	-1.7%	0	0	54	55	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	1,059	1,426	-26.0%	843	1,182	155	163	1	1	60	80

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, April 2017 and April 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	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	30,894	32,080	-3.7%	NM	285	29,482	30,495	NM	671	692	630
Connecticut	7,741	11,920	-35.0%	28	0	7,057	11,334	NM	264	NM	322
Maine	1,212	1,623	-25.0%	0	0	NM	1,405	26	NM	NM	199
Massachusetts	14,943	11,920	25.0%	NM	232	14,428	11,263	NM	325	158	100
New Hampshire	3,585	3,632	-1.3%	2	54	3,570	3,555	1	NM	12	NM
Rhode Island	3,413	2,985	14.0%	0	0	3,378	2,937	35	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	67,237	89,878	-25.0%	6,405	8,088	59,345	80,197	NM	809	798	785
New Jersey	16,044	23,375	-31.0%	88	NM	15,577	22,997	NM	NM	NM	202
New York	25,898	33,086	-22.0%	6,314	8,025	19,021	24,290	NM	611	NM	161
Pennsylvania	25,295	33,417	-24.0%	3	NM	24,748	32,910	121	NM	NM	422
East North Central	44,247	67,918	-35.0%	19,462	28,818	21,722	36,677	766	769	2,297	1,653
Illinois	4,973	9,645	-48.0%	NM	912	4,111	8,337	NM	171	NM	225
Indiana	9,059	9,568	-5.3%	6,765	6,366	1,232	2,807	85	88	978	307
Michigan	13,032	22,651	-42.0%	3,993	8,816	8,150	12,601	239	337	650	898
Ohio	11,371	16,422	-31.0%	3,608	4,248	7,475	12,048	198	NM	90	NM
Wisconsin	5,811	9,631	-40.0%	4,876	8,476	753	885	28	NM	NM	202
West North Central	10,724	14,762	-27.0%	8,912	11,579	1,081	2,382	225	346	506	455
Iowa	2,057	1,080	90.0%	1,665	800	NM	NM	59	NM	333	NM
Kansas	1,717	1,170	47.0%	1,700	1,104	0	0	0	0	17	NM
Minnesota	3,467	6,031	-43.0%	2,845	4,664	NM	1,082	67	NM	NM	115
Missouri	2,135	4,809	-56.0%	1,355	3,371	NM	1,300	99	110	44	NM
Nebraska	NM	486	NM	NM	463	0	0	0	NM	0	21
North Dakota	466	NM	NM	465	NM	0	0	0	0	1	NM
South Dakota	NM	687	NM	NM	687	0	0	0	0	0	0
South Atlantic	173,948	186,545	-6.8%	140,392	148,278	30,466	35,307	536	507	2,555	2,454
Delaware	3,081	5,692	-46.0%	4	NM	2,302	4,568	0	0	NM	1,090
District of Columbia	30	NM	NM	0	0	0	0	30	NM	0	0
Florida	92,520	100,623	-8.1%	85,731	91,544	6,087	8,315	11	NM	691	742
Georgia	24,419	30,657	-20.0%	17,268	20,219	6,780	10,199	0	0	372	239
Maryland	4,177	3,885	7.5%	0	0	3,647	3,415	490	428	40	41
North Carolina	18,095	24,073	-25.0%	15,207	20,533	2,846	3,453	5	7	37	80
South Carolina	11,091	6,823	63.0%	9,688	5,485	1,260	1,286	0	NM	142	49
Virginia	20,105	13,649	47.0%	12,450	10,262	7,310	3,178	1	NM	345	203
West Virginia	431	1,102	-61.0%	44	201	NM	892	0	0	153	9
East South Central	65,439	59,628	9.7%	44,903	39,917	19,373	18,631	NM	NM	1,085	989
Alabama	29,982	27,032	11.0%	11,703	9,262	17,706	17,157	0	0	573	613
Kentucky	4,466	4,601	-2.9%	4,248	4,489	88	4	0	0	NM	108
Mississippi	24,661	22,677	8.8%	22,914	21,033	1,564	1,470	0	NM	183	169
Tennessee	6,330	5,319	19.0%	6,038	5,133	16	0	NM	NM	198	99
West South Central	173,218	199,392	-13.0%	53,817	66,276	81,952	95,622	379	603	37,070	36,891
Arkansas	10,097	10,589	-4.7%	2,569	2,462	7,402	7,963	0	NM	125	162
Louisiana	36,835	42,052	-12.0%	17,091	21,370	3,852	4,024	NM	NM	15,872	16,532
Oklahoma	16,430	20,336	-19.0%	10,950	14,679	5,360	5,568	0	NM	119	79
Texas	109,857	126,415	-13.0%	23,207	27,765	65,338	78,066	359	466	20,953	20,117
Mountain	42,789	55,496	-23.0%	33,141	45,793	8,292	8,479	385	325	971	900
Arizona	14,259	18,720	-24.0%	10,798	14,685	3,346	3,937	115	NM	0	0
Colorado	7,027	8,406	-16.0%	5,934	7,294	1,071	1,091	0	0	21	NM
Idaho	1,550	635	144.0%	885	NM	556	440	37	0	NM	55
Montana	359	NM	NM	320	NM	39	NM	0	0	0	0
Nevada	11,919	14,875	-20.0%	10,428	13,341	1,282	1,284	54	NM	155	195
New Mexico	4,616	6,291	-27.0%	2,677	4,584	1,842	1,606	NM	NM	2	0
Utah	2,641	5,614	-53.0%	2,013	5,184	153	NM	85	NM	390	286
Wyoming	418	496	-16.0%	NM	NM	2	NM	0	0	331	343
Pacific Contiguous	38,524	46,337	-17.0%	15,961	13,924	16,615	25,843	1,248	1,181	4,700	5,389
California	30,739	40,582	-24.0%	11,365	11,707	13,570	22,467	1,191	1,119	4,614	5,289
Oregon	2,755	3,116	-12.0%	1,688	921	978	2,087	NM	NM	NM	55
Washington	5,030	2,640	91.0%	2,909	1,296	2,067	1,290	8	NM	NM	45
Pacific Noncontiguous	1,043	1,737	-40.0%	960	1,645	0	0	4	1	79	NM
Alaska	1,043	1,737	-40.0%	960	1,645	0	0	4	1	79	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	648,063	753,775	-14.0%	324,099	364,603	268,328	333,632	4,883	5,304	50,753	50,236

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	119,297	113,924	4.7%	NM	546	112,889	107,662	NM	2,888	3,043	2,828
Connecticut	36,616	43,222	-15.0%	127	0	33,564	40,350	NM	1,279	NM	1,593
Maine	5,202	7,198	-28.0%	0	0	NM	6,324	100	NM	NM	776
Massachusetts	57,279	43,086	33.0%	NM	490	54,934	40,938	NM	1,242	658	415
New Hampshire	7,138	7,818	-8.7%	5	55	7,027	7,645	60	NM	46	NM
Rhode Island	13,055	12,598	3.6%	0	0	12,931	12,405	124	194	0	0
Vermont	8	NM	NM	4	1	0	0	4	NM	0	0
Middle Atlantic	306,278	356,445	-14.0%	29,329	31,702	269,844	317,197	NM	3,593	3,882	3,953
New Jersey	67,591	90,107	-25.0%	254	NM	65,609	88,334	NM	567	NM	999
New York	117,803	127,531	-7.6%	29,065	31,485	85,872	92,619	NM	2,639	NM	787
Pennsylvania	120,883	138,807	-13.0%	10	NM	118,363	136,245	508	387	NM	2,167
East North Central	209,794	277,875	-25.0%	89,704	120,405	106,451	147,520	3,594	3,353	10,045	6,597
Illinois	26,716	39,583	-33.0%	NM	2,897	22,735	34,580	NM	1,009	NM	1,098
Indiana	44,045	47,716	-7.7%	32,198	35,445	7,537	10,648	335	345	3,975	1,278
Michigan	57,889	74,437	-22.0%	16,875	23,651	36,575	46,046	1,132	1,318	3,307	3,422
Ohio	55,611	73,412	-24.0%	16,886	18,919	37,479	53,962	882	440	364	91
Wisconsin	25,532	42,726	-40.0%	22,586	39,493	2,125	2,285	130	240	NM	708
West North Central	42,145	49,782	-15.0%	34,805	40,590	4,493	6,465	1,089	1,185	1,757	1,542
Iowa	6,638	6,435	3.2%	5,518	5,376	NM	NM	176	230	944	829
Kansas	4,616	3,413	35.0%	4,481	3,228	0	0	0	0	136	185
Minnesota	16,127	22,143	-27.0%	13,317	17,951	NM	3,176	671	665	NM	351
Missouri	9,225	12,175	-24.0%	5,961	8,506	NM	3,288	240	288	202	92
Nebraska	NM	845	NM	NM	801	0	0	3	NM	0	NM
North Dakota	2,028	2,531	-20.0%	2,021	2,486	0	0	0	0	7	44
South Dakota	NM	2,241	NM	NM	2,241	0	0	0	0	0	0
South Atlantic	684,383	721,154	-5.1%	564,975	589,469	106,111	120,457	2,475	2,383	10,822	8,844
Delaware	13,444	16,589	-19.0%	9	NM	9,706	12,944	0	0	NM	3,545
District of Columbia	246	NM	NM	0	0	0	0	246	NM	0	0
Florida	328,990	358,843	-8.3%	309,576	330,050	16,576	25,903	51	NM	2,787	2,810
Georgia	107,678	114,998	-6.4%	80,153	87,422	26,091	26,521	0	0	1,435	1,055
Maryland	15,079	12,841	17.0%	0	0	12,792	10,644	2,120	2,048	168	149
North Carolina	86,328	100,599	-14.0%	74,842	90,026	11,305	10,246	21	23	162	304
South Carolina	37,274	34,102	9.3%	32,199	25,714	4,581	8,206	1	NM	494	173
Virginia	93,592	80,352	16.0%	67,783	55,833	24,522	23,727	36	NM	1,251	770
West Virginia	1,750	2,629	-33.0%	414	326	NM	2,266	0	0	796	38
East South Central	245,910	278,334	-12.0%	165,339	183,844	75,592	89,612	NM	427	4,551	4,451
Alabama	109,927	122,342	-10.0%	41,648	39,819	65,888	79,823	0	0	2,391	2,700
Kentucky	14,035	20,308	-31.0%	12,534	19,007	879	738	0	0	NM	563
Mississippi	96,597	110,156	-12.0%	87,072	100,315	8,790	9,051	15	NM	720	777
Tennessee	25,351	25,528	-0.7%	24,085	24,703	35	0	NM	414	817	411
West South Central	623,187	788,701	-21.0%	172,496	254,323	298,852	378,264	2,230	2,361	149,608	153,752
Arkansas	28,688	36,519	-21.0%	7,187	15,125	20,908	20,728	0	NM	592	659
Louisiana	136,689	171,841	-20.0%	62,999	85,009	10,368	18,636	NM	551	62,858	67,646
Oklahoma	53,042	75,820	-30.0%	34,839	54,921	17,734	20,544	0	NM	469	338
Texas	404,767	504,520	-20.0%	67,471	99,268	249,842	318,357	1,765	1,786	85,689	85,110
Mountain	163,211	209,336	-22.0%	128,929	164,983	28,621	39,425	1,509	1,159	4,151	3,769
Arizona	36,947	60,910	-39.0%	28,709	43,278	7,788	17,277	451	355	0	0
Colorado	26,180	29,268	-11.0%	21,382	24,571	4,709	4,618	0	0	88	NM
Idaho	7,644	7,836	-2.5%	4,341	3,955	2,781	3,549	153	0	NM	333
Montana	1,469	2,226	-34.0%	1,241	2,020	208	NM	0	0	20	0
Nevada	54,072	62,350	-13.0%	48,624	56,913	4,641	4,497	209	NM	597	754
New Mexico	21,351	24,882	-14.0%	13,046	15,552	7,915	8,962	NM	362	8	NM
Utah	13,892	20,049	-31.0%	11,298	18,226	577	NM	314	NM	1,703	1,253
Wyoming	1,656	1,814	-8.7%	NM	NM	2	NM	0	0	1,365	1,343
Pacific Contiguous	211,456	246,113	-14.0%	86,161	94,185	99,209	127,641	5,157	4,239	20,929	20,047
California	162,934	192,598	-15.0%	61,241	69,156	76,278	99,763	4,951	3,986	20,463	19,693
Oregon	23,815	29,937	-20.0%	10,882	11,331	12,581	18,266	NM	NM	NM	120
Washington	24,708	23,577	4.8%	14,037	13,699	10,350	9,612	32	32	NM	234
Pacific Noncontiguous	5,611	7,638	-27.0%	5,274	7,280	0	0	23	NM	314	353
Alaska	5,611	7,638	-27.0%	5,274	7,280	0	0	23	NM	314	353
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,611,272	3,049,301	-14.0%	1,277,645	1,487,328	1,102,061	1,334,243	22,463	21,593	209,103	206,137

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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, April 2017 and April 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	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	832	1,002	-17.0%	0	0	827	944	5	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	298	371	-20.0%	0	0	298	371	0	0	0	0
New Hampshire	53	NM	NM	0	0	NM	NM	5	NM	0	0
Rhode Island	348	304	15.0%	0	0	348	304	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,189	5,231	-20.0%	0	0	3,970	4,989	54	NM	166	130
New Jersey	659	857	-23.0%	0	0	636	817	NM	NM	0	0
New York	1,228	1,549	-21.0%	0	0	1,228	1,549	0	0	0	0
Pennsylvania	2,303	2,825	-18.0%	0	0	2,106	2,624	30	NM	166	130
East North Central	5,053	6,609	-24.0%	523	777	4,416	5,727	40	NM	74	NM
Illinois	993	1,393	-29.0%	32	NM	960	1,353	0	0	0	0
Indiana	599	866	-31.0%	476	719	102	NM	0	0	NM	NM
Michigan	1,613	1,994	-19.0%	0	0	1,613	1,994	0	0	0	0
Ohio	903	1,141	-21.0%	0	0	903	1,141	0	0	0	0
Wisconsin	945	1,214	-22.0%	NM	NM	837	1,129	40	NM	54	NM
West North Central	804	1,147	-30.0%	270	315	534	832	0	0	0	0
Iowa	97	NM	NM	0	0	97	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	292	360	-19.0%	NM	NM	228	NM	0	0	0	0
Missouri	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Nebraska	137	NM	NM	137	NM	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,612	4,685	-23.0%	416	498	2,929	3,671	104	265	163	251
Delaware	NM	NM	NM	0	0	NM	NM	0	0	11	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	585	645	-9.3%	153	179	432	461	0	NM	0	NM
Georgia	374	451	-17.0%	0	0	348	398	0	0	26	NM
Maryland	187	NM	NM	0	0	NM	NM	NM	NM	0	0
North Carolina	770	1,152	-33.0%	0	0	746	995	NM	NM	0	0
South Carolina	410	522	-21.0%	255	312	NM	NM	0	0	125	NM
Virginia	1,166	1,513	-23.0%	9	NM	1,137	1,475	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	366	519	-29.0%	NM	NM	253	315	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	NM	NM	NM	NM	NM	13	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	1,245	1,807	-31.0%	0	0	1,202	1,727	42	NM	0	0
Arkansas	NM	NM	NM	0	0	NM	NM	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	1,108	1,604	-31.0%	0	0	1,066	1,524	42	NM	0	0
Mountain	447	539	-17.0%	NM	NM	378	452	49	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	14	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	169	NM	NM	0	0	NM	NM	35	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,614	5,476	-16.0%	625	763	2,906	3,590	1,082	1,123	0	0
California	3,814	4,431	-14.0%	237	280	2,528	3,078	1,049	1,073	0	0
Oregon	431	576	-25.0%	NM	NM	299	390	NM	NM	0	0
Washington	369	470	-22.0%	289	347	NM	NM	0	0	0	0
Pacific Noncontiguous	56	NM	NM	0	0	0	0	56	NM	0	0
Alaska	56	NM	NM	0	0	0	0	56	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,217	27,153	-22.0%	1,968	2,585	17,415	22,247	1,431	1,867	403	454

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	3,533	4,119	-14.0%	0	0	3,370	3,874	163	245	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	305	NM	0	0	NM	305	0	0	0	0
Massachusetts	1,243	1,460	-15.0%	0	0	1,243	1,460	0	0	0	0
New Hampshire	369	642	-43.0%	0	0	NM	397	163	245	0	0
Rhode Island	1,365	1,367	-0.1%	0	0	1,365	1,367	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	17,761	20,534	-14.0%	0	0	16,859	19,547	247	472	656	515
New Jersey	2,922	3,422	-15.0%	0	0	2,815	3,253	NM	169	0	0
New York	5,089	6,098	-17.0%	0	0	5,089	6,098	0	0	0	0
Pennsylvania	9,750	11,014	-11.0%	0	0	8,954	10,196	140	303	656	515
East North Central	21,561	26,003	-17.0%	2,473	3,056	18,629	22,525	155	124	303	298
Illinois	4,470	5,483	-18.0%	155	NM	4,315	5,323	0	0	0	0
Indiana	2,720	3,399	-20.0%	2,257	2,825	365	430	0	0	NM	144
Michigan	6,844	7,846	-13.0%	0	0	6,844	7,846	0	0	0	0
Ohio	3,641	4,474	-19.0%	0	0	3,641	4,474	0	0	0	0
Wisconsin	3,885	4,801	-19.0%	NM	NM	3,464	4,452	155	124	204	154
West North Central	3,386	4,518	-25.0%	1,167	1,259	2,219	3,258	0	0	0	0
Iowa	399	1,115	-64.0%	0	0	399	1,115	0	0	0	0
Kansas	NM	582	NM	0	0	NM	582	0	0	0	0
Minnesota	1,220	1,425	-14.0%	NM	306	949	1,119	0	0	0	0
Missouri	NM	775	NM	NM	332	NM	442	0	0	0	0
Nebraska	593	621	-4.6%	593	621	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	15,286	18,536	-18.0%	1,669	1,872	12,184	14,513	697	1,109	735	1,042
Delaware	NM	631	NM	0	0	NM	537	0	0	51	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,362	2,468	-4.3%	569	601	1,793	1,851	0	NM	0	NM
Georgia	1,508	1,780	-15.0%	0	0	1,379	1,558	0	0	129	221
Maryland	798	932	-14.0%	0	0	NM	621	NM	311	0	0
North Carolina	3,486	4,586	-24.0%	0	0	3,144	3,921	NM	666	0	0
South Carolina	1,749	2,102	-17.0%	1,070	1,242	NM	NM	0	0	556	716
Virginia	4,852	5,987	-19.0%	31	NM	4,730	5,830	NM	128	0	0
West Virginia	23	NM	NM	0	0	23	NM	0	0	0	0
East South Central	1,627	2,040	-20.0%	NM	804	1,062	1,237	0	0	0	0
Alabama	NM	406	NM	0	0	NM	406	0	0	0	0
Kentucky	NM	865	NM	NM	804	63	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	670	NM	0	0	NM	670	0	0	0	0
West South Central	5,345	7,106	-25.0%	0	0	5,161	6,770	184	336	0	0
Arkansas	NM	671	NM	0	0	NM	671	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	52	NM	NM	0	0	52	NM	0	0	0	0
Texas	4,726	6,313	-25.0%	0	0	4,542	5,977	184	336	0	0
Mountain	1,826	2,122	-14.0%	NM	NM	1,582	1,768	161	245	0	0
Arizona	NM	387	NM	0	0	NM	387	0	0	0	0
Colorado	NM	434	NM	0	0	NM	434	0	0	0	0
Idaho	NM	378	NM	NM	NM	NM	178	57	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	223	NM	0	0	NM	223	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	671	699	-4.0%	0	0	NM	545	104	154	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	19,029	23,608	-19.0%	2,394	2,997	12,007	14,473	4,628	6,137	0	0
California	15,837	19,505	-19.0%	841	1,109	10,513	12,467	4,483	5,929	0	0
Oregon	1,712	2,264	-24.0%	NM	531	1,161	1,525	NM	208	0	0
Washington	1,480	1,839	-20.0%	1,147	1,358	NM	482	0	0	0	0
Pacific Noncontiguous	205	587	-65.0%	0	0	0	0	205	587	0	0
Alaska	205	587	-65.0%	0	0	0	0	205	587	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	89,560	109,173	-18.0%	8,350	10,098	73,074	87,963	6,441	9,256	1,694	1,855

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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, April 2017 and April 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	305	302	0.9%	0	0	286	285	19	17	0	0
Connecticut	110	107	2.7%	0	0	110	107	0	0	0	0
Maine	28	24	13.0%	0	0	8	NM	19	17	0	0
Massachusetts	156	161	-3.1%	0	0	156	161	0	0	0	0
New Hampshire	11	NM	NM	0	0	11	NM	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	418	404	3.6%	0	0	328	316	90	88	0	0
New Jersey	106	112	-4.9%	0	0	79	85	27	27	0	0
New York	170	148	15.0%	0	0	127	110	42	38	0	0
Pennsylvania	143	145	-1.4%	0	0	122	121	20	24	0	0
East North Central	18	21	-14.0%	3	3	0	0	15	18	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	15.0%	0	0	0	0	1	1	0	0
Michigan	14	17	-16.0%	0	0	0	0	14	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-7.9%	3	3	0	0	0	0	0	0
West North Central	55	55	-0.2%	32	37	21	16	2	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	55	55	-0.2%	32	37	21	16	2	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	393	488	-19.0%	0	0	360	455	34	33	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	298	336	-12.0%	0	0	298	336	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	62	67	-7.2%	0	0	62	67	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	34	85	-60.0%	0	0	0	52	34	33	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	1	-79.0%	0	0	0	0	0	0	0	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-79.0%	0	0	0	0	0	0	0	1
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	63	61	3.9%	0	0	63	61	0	0	0	0
California	38	41	-7.1%	0	0	38	41	0	0	0	0
Oregon	9	NM	NM	0	0	9	NM	0	0	0	0
Washington	15	NM	NM	0	0	15	NM	0	0	0	0
Pacific Noncontiguous	37	39	-6.4%	0	0	0	0	37	39	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	37	39	-6.4%	0	0	0	0	37	39	0	0
U.S. Total	1,289	1,370	-5.9%	35	40	1,058	1,133	196	196	0	1

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	1,187	1,178	0.7%	0	0	1,120	1,113	67	65	0	0
Connecticut	404	422	-4.2%	0	0	404	422	0	0	0	0
Maine	104	95	9.3%	0	0	37	30	67	65	0	0
Massachusetts	638	626	2.0%	0	0	638	626	0	0	0	0
New Hampshire	40	36	13.0%	0	0	40	36	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	1,714	1,633	5.0%	0	0	1,360	1,284	354	348	0	0
New Jersey	459	432	6.3%	0	0	345	318	114	114	0	0
New York	628	594	5.7%	0	0	470	445	157	149	0	0
Pennsylvania	627	607	3.3%	0	0	544	522	83	86	0	0
East North Central	77	82	-5.1%	12	12	0	0	66	69	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	3	3	27.0%	0	0	0	0	3	3	0	0
Michigan	62	67	-6.7%	0	0	0	0	62	67	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	12	12	-3.3%	12	12	0	0	0	0	0	0
West North Central	196	199	-1.5%	112	130	76	60	7	8	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	196	199	-1.5%	112	130	76	60	7	8	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,726	1,795	-3.8%	0	0	1,600	1,672	126	123	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	1,292	1,243	3.9%	0	0	1,292	1,243	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	242	248	-2.7%	0	0	242	248	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	193	303	-36.0%	0	0	66	181	126	122	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	4	-94.0%	0	0	0	0	0	0	0	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	4	-94.0%	0	0	0	0	0	0	0	4
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	1	-69.0%	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	-69.0%	0	0	0	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	251	173	44.0%	0	0	251	173	0	0	0	0
California	159	100	59.0%	0	0	159	100	0	0	0	0
Oregon	38	29	30.0%	0	0	38	29	0	0	0	0
Washington	53	44	20.0%	0	0	53	44	0	0	0	0
Pacific Noncontiguous	143	132	8.4%	0	0	0	0	143	132	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	143	132	8.4%	0	0	0	0	143	132	0	0
U.S. Total	5,294	5,196	1.9%	124	142	4,407	4,304	763	746	0	4

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

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, April 2017 and April 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	3,963	3,538	12.0%	325	185	3,060	2,877	12	NM	567	475
Connecticut	NM	187	NM	0	0	NM	187	0	0	0	0
Maine	1,918	1,778	7.9%	0	0	1,342	1,303	9	0	567	475
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,345	1,115	21.0%	115	0	1,229	1,115	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	356	322	11.0%	210	185	NM	NM	3	NM	0	0
Middle Atlantic	1,071	833	29.0%	0	0	625	572	0	0	445	260
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	711	636	12.0%	0	0	625	572	0	0	85	64
Pennsylvania	360	197	83.0%	0	0	0	0	0	0	360	197
East North Central	2,240	2,180	2.7%	441	394	919	837	0	0	881	950
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,383	1,363	1.4%	0	0	867	786	0	0	516	577
Ohio	171	191	-10.0%	0	0	52	NM	0	0	119	140
Wisconsin	686	626	9.6%	441	394	0	0	0	0	245	232
West North Central	949	778	22.0%	NM	142	553	457	31	24	205	155
Iowa	0	NM	NM	0	0	0	0	0	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	919	754	22.0%	NM	142	553	457	0	0	205	155
Missouri	30	24	27.0%	0	0	0	0	30	24	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	9,568	8,075	18.0%	1,717	1,500	3,000	1,703	0	NM	4,852	4,855
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	1,969	850	132.0%	0	0	1,243	NM	0	0	726	728
Georgia	2,228	2,087	6.7%	0	0	338	391	0	0	1,890	1,696
Maryland	56	71	-21.0%	0	0	0	0	0	NM	56	55
North Carolina	984	1,225	-20.0%	0	0	716	670	0	0	267	555
South Carolina	2,087	1,981	5.3%	328	253	450	444	0	0	1,309	1,284
Virginia	2,245	1,861	21.0%	1,389	1,247	NM	76	0	0	603	538
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,913	2,848	2.3%	0	0	175	191	0	0	2,737	2,657
Alabama	1,714	1,707	0.4%	0	0	175	191	0	0	1,538	1,516
Kentucky	137	168	-19.0%	0	0	0	0	0	0	137	168
Mississippi	680	632	7.6%	0	0	0	0	0	0	680	632
Tennessee	382	341	12.0%	0	0	0	0	0	0	382	341
West South Central	3,136	2,818	11.0%	0	49	161	0	0	0	2,975	2,770
Arkansas	654	551	19.0%	0	0	0	0	0	0	654	551
Louisiana	1,657	1,590	4.2%	0	0	0	0	0	0	1,657	1,590
Oklahoma	97	89	9.6%	0	0	0	0	0	0	97	89
Texas	728	589	24.0%	0	49	161	0	0	0	567	540
Mountain	770	857	-10.0%	0	0	375	357	0	0	395	500
Arizona	NM	303	NM	0	0	NM	303	0	0	0	0
Colorado	116	0	--	0	0	116	0	0	0	0	0
Idaho	395	510	-23.0%	0	0	46	53	0	0	348	457
Montana	47	NM	NM	0	0	0	0	0	0	47	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	5,423	5,192	4.4%	NM	402	3,450	3,241	0	0	1,652	1,549
California	3,617	3,324	8.8%	0	0	3,242	3,076	0	0	376	249
Oregon	560	499	12.0%	0	0	NM	NM	0	0	352	334
Washington	1,245	1,369	-9.0%	NM	402	0	0	0	0	924	966
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	30,033	27,119	11.0%	2,964	2,672	12,319	10,235	42	42	14,708	14,171

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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 April 2017 and April 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	18,464	21,399	-14.0%	2,722	2,958	13,418	16,310	44	NM	2,280	2,120
Connecticut	NM	1,433	NM	0	0	NM	1,433	0	0	0	0
Maine	8,299	9,488	-13.0%	0	0	5,985	7,363	34	NM	2,280	2,120
Massachusetts	NM	672	NM	0	0	NM	672	0	0	0	0
New Hampshire	6,781	7,574	-10.0%	1,450	1,423	5,331	6,151	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,908	2,231	-15.0%	1,272	1,535	NM	690	10	NM	0	0
Middle Atlantic	4,420	4,024	9.8%	0	0	2,552	2,297	0	0	1,868	1,727
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	2,946	2,679	10.0%	0	0	2,551	2,294	0	0	395	386
Pennsylvania	1,474	1,345	9.6%	0	0	0	NM	0	0	1,474	1,341
East North Central	9,033	9,492	-4.8%	1,813	1,816	3,767	3,873	0	0	3,453	3,804
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	5,521	5,956	-7.3%	0	NM	3,543	3,658	0	0	1,978	2,297
Ohio	733	765	-4.2%	0	0	224	214	0	0	509	551
Wisconsin	2,779	2,771	0.3%	1,813	1,816	0	0	0	0	966	956
West North Central	4,063	3,677	11.0%	NM	676	2,193	2,151	130	110	1,069	740
Iowa	1	NM	NM	0	0	0	0	1	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	3,938	3,567	10.0%	NM	676	2,193	2,151	5	0	1,069	740
Missouri	124	108	15.0%	0	0	0	0	124	108	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	39,951	38,155	4.7%	7,200	7,256	12,020	10,502	44	67	20,688	20,330
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,774	4,972	36.0%	0	0	3,753	2,058	0	0	3,022	2,914
Georgia	9,847	9,771	0.8%	0	0	2,091	2,375	0	0	7,757	7,396
Maryland	283	263	7.3%	0	0	0	0	44	67	239	196
North Carolina	4,993	4,850	3.0%	0	0	3,144	2,833	0	0	1,849	2,017
South Carolina	8,812	8,701	1.3%	1,378	1,230	1,976	2,140	0	0	5,458	5,331
Virginia	9,241	9,598	-3.7%	5,821	6,026	NM	1,097	0	0	2,363	2,475
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	12,052	12,346	-2.4%	0	0	745	726	0	0	11,307	11,620
Alabama	7,252	7,386	-1.8%	0	0	745	726	0	0	6,507	6,660
Kentucky	532	650	-18.0%	0	0	0	0	0	0	532	650
Mississippi	2,708	2,786	-2.8%	0	0	0	0	0	0	2,708	2,786
Tennessee	1,560	1,524	2.4%	0	0	0	0	0	0	1,560	1,524
West South Central	12,425	12,170	2.1%	0	49	615	312	0	0	11,810	11,809
Arkansas	2,594	2,606	-0.5%	0	0	0	0	0	0	2,594	2,606
Louisiana	6,408	6,504	-1.5%	0	0	0	0	0	0	6,408	6,504
Oklahoma	438	387	13.0%	0	0	0	0	0	0	438	387
Texas	2,985	2,673	12.0%	0	49	615	312	0	0	2,370	2,312
Mountain	3,117	3,036	2.7%	0	0	1,555	1,278	0	0	1,562	1,758
Arizona	NM	1,034	NM	0	0	NM	1,034	0	0	0	0
Colorado	440	11	NM	0	0	440	11	0	0	0	0
Idaho	1,538	1,813	-15.0%	0	0	169	233	0	0	1,370	1,580
Montana	193	178	8.3%	0	0	0	0	0	0	193	178
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	22,567	22,488	0.4%	NM	1,688	14,363	14,555	0	0	6,812	6,245
California	15,015	14,724	2.0%	0	0	13,486	13,667	0	0	1,529	1,056
Oregon	2,218	2,164	2.5%	0	0	NM	888	0	0	1,341	1,277
Washington	5,334	5,600	-4.7%	NM	1,688	0	0	0	0	3,943	3,912
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	126,093	126,787	-0.5%	13,796	14,442	51,229	52,004	218	189	60,849	60,152

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 - April 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

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, April 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	April 2017	April 2016	Percentage Change	April 2017	April 2016	Percentage Change	April 2017	April 2016	Percentage Change
New England	1,134	1,785	-36.5%	3,905	4,621	-15.5%	0	0	--
Connecticut	W	W	W	1,235	1,649	-25.1%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,578	1,832	-13.9%	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	--	83	52	58.2%	0	0	--
Middle Atlantic	5,151	6,796	-24.2%	4,859	5,643	-13.9%	0	0	--
New Jersey	738	784	-5.9%	536	711	-24.5%	0	0	--
New York	W	W	W	3,309	3,573	-7.4%	0	0	--
Pennsylvania	W	W	W	1,014	1,359	-25.4%	0	0	--
East North Central	33,917	41,568	-18.4%	827	1,138	-27.3%	361	W	W
Illinois	8,233	10,695	-23.0%	53	80	-33.5%	0	0	--
Indiana	9,274	11,622	-20.2%	89	113	-20.8%	W	0	W
Michigan	4,183	5,170	-19.1%	313	337	-7.2%	W	W	W
Ohio	7,593	9,575	-20.7%	234	369	-36.6%	W	W	W
Wisconsin	4,634	4,505	2.9%	139	240	-42.2%	W	W	W
West North Central	31,209	32,337	-3.5%	673	1,030	-34.7%	0	0	--
Iowa	8,008	8,168	-1.9%	85	138	-38.9%	0	0	--
Kansas	4,977	4,850	2.6%	118	132	-10.7%	0	0	--
Minnesota	4,178	4,518	-7.5%	82	143	-42.8%	0	0	--
Missouri	9,073	9,454	-4.0%	264	406	-35.1%	0	0	--
Nebraska	3,425	3,303	3.7%	59	115	-48.5%	0	0	--
North Dakota	W	W	W	31	40	-23.1%	0	0	--
South Dakota	W	W	W	36	57	-36.8%	0	0	--
South Atlantic	29,092	35,184	-17.3%	12,256	12,131	1.0%	W	W	W
Delaware	W	W	W	268	466	-42.5%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,529	6,472	-30.0%	5,675	5,251	8.1%	88	82	6.7%
Georgia	5,731	6,346	-9.7%	798	839	-4.9%	0	0	--
Maryland	2,269	1,591	42.6%	854	871	-1.9%	0	0	--
North Carolina	5,767	7,561	-23.7%	1,221	1,232	-0.9%	0	0	--
South Carolina	4,927	6,204	-20.6%	667	711	-6.2%	0	0	--
Virginia	1,268	1,497	-15.3%	2,631	2,620	0.4%	0	0	--
West Virginia	W	W	W	143	142	0.8%	W	W	W
East South Central	16,707	18,603	-10.2%	1,935	1,852	4.5%	W	W	W
Alabama	3,408	4,630	-26.4%	332	263	26.4%	0	0	--
Kentucky	9,022	8,701	3.7%	239	246	-2.8%	W	W	W
Mississippi	1,143	1,436	-20.4%	569	575	-1.1%	0	0	--
Tennessee	3,134	3,836	-18.3%	795	767	3.6%	0	0	--
West South Central	26,304	34,401	-23.5%	1,754	1,894	-7.4%	W	W	W
Arkansas	3,015	5,543	-45.6%	W	W	W	0	0	--
Louisiana	3,009	3,611	-16.7%	387	440	-12.0%	W	W	W
Oklahoma	4,310	6,126	-29.6%	W	W	W	0	0	--
Texas	15,969	19,121	-16.5%	1,078	1,172	-8.0%	0	0	--
Mountain	21,369	21,339	0.1%	381	395	-3.6%	W	W	W
Arizona	3,920	4,549	-13.8%	128	124	3.8%	0	0	--
Colorado	4,411	5,599	-21.2%	122	121	0.5%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	19	W	W	W	W
Nevada	W	1,138	W	W	W	W	0	0	--
New Mexico	W	W	W	34	44	-22.5%	0	0	--
Utah	5,575	4,466	24.8%	41	44	-8.1%	0	0	--
Wyoming	4,890	3,568	37.1%	32	27	17.1%	0	0	--
Pacific Contiguous	W	W	W	364	511	-28.8%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	147	264	-44.4%	0	0	--
Pacific Noncontiguous	W	W	W	2,215	2,480	-10.7%	0	0	--
Alaska	W	W	W	39	260	-85.0%	0	0	--
Hawaii	W	W	W	2,176	2,219	-2.0%	0	0	--
U.S. Total	166,236	193,991	-14.3%	29,170	31,695	-8.0%	952	1,181	-19.4%

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, April 2017 and 2016

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**April 2017**	**April 2016**	**Percentage Change**	**April 2017**	**April 2016**	**April 2017**	**April 2016**
Coal (Thousand Tons)							
New England	1,134	1,785	-36.5%	W	W	W	W
Middle Atlantic	5,151	6,796	-24.2%	0	0	5,151	6,796
East North Central	33,917	41,568	-18.4%	20,273	24,992	13,644	16,576
West North Central	31,209	32,337	-3.5%	31,209	32,337	0	0
South Atlantic	29,092	35,184	-17.3%	25,760	32,471	3,332	2,713
East South Central	16,707	18,603	-10.2%	16,707	18,603	0	0
West South Central	26,304	34,401	-23.5%	15,696	21,092	10,608	13,310
Mountain	21,369	21,339	0.1%	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	**166,236**	**193,991**	**-14.3%**	**131,184**	**151,329**	**35,053**	**42,662**
Petroleum Liquids (Thousand Barrels)							
New England	3,905	4,621	-15.5%	670	660	3,235	3,960
Middle Atlantic	4,859	5,643	-13.9%	1,998	2,209	2,861	3,434
East North Central	827	1,138	-27.3%	609	825	218	313
West North Central	673	1,030	-34.7%	W	1,006	W	24
South Atlantic	12,256	12,131	1.0%	10,045	9,803	2,211	2,328
East South Central	1,935	1,852	4.5%	W	W	W	W
West South Central	1,754	1,894	-7.4%	1,345	1,408	408	486
Mountain	381	395	-3.6%	W	W	W	W
Pacific Contiguous	364	511	-28.8%	253	409	111	102
Pacific Noncontiguous	2,215	2,480	-10.7%	W	W	W	W
U.S. Total	**29,170**	**31,695**	**-8.0%**	**19,969**	**20,909**	**9,201**	**10,786**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	361	W	W	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	88	82	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	**952**	**1,181**	**-19.4%**	**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 - April 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

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 - April 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
Year to Date												
2015	5,015,114	259,640	2.26	43.69	1.29	103.3	56,897	9,391	12.72	77.16	0.52	56.5
2016	3,663,353	188,266	2.14	41.67	1.41	95.7	32,291	5,343	7.58	45.86	0.44	67.2
2017	3,939,465	204,977	2.09	40.14	1.31	97.8	33,639	5,612	11.69	70.10	0.50	75.2
Rolling 12 Months Ending in April												
2016	13,734,446	711,555	2.19	42.24	1.32	101.4	123,042	20,272	9.90	60.10	0.46	86.6
2017	12,608,961	655,274	2.10	40.41	1.32	92.9	101,949	16,879	W	W	0.49	72.5

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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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- 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 - April 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
Year to Date												
2015	44,838	1,587	1.94	54.79	5.17	87.9	2,911,017	2,818,930	3.85	3.98	89.3	2.87
2016	41,531	1,481	1.36	38.07	5.52	83.6	3,125,828	3,022,935	2.59	2.68	89.7	2.36
2017	29,115	1,039	2.05	57.45	5.54	76.4	2,335,030	2,259,147	3.61	3.73	76.9	2.67
Rolling 12 Months Ending in April												
2016	135,361	4,791	1.66	46.88	5.36	92.9	10,388,313	10,046,585	2.86	2.96	90.0	2.49
2017	104,519	3,724	1.87	52.60	5.39	76.3	9,815,178	9,494,900	3.14	3.25	86.9	W

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - April 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
Year to Date												
2015	3,663,847	188,872	2.28	44.15	1.18	106.6	34,016	5,583	12.15	74.07	0.50	68.6
2016	2,753,189	140,696	2.18	42.67	1.26	98.2	24,112	3,951	7.53	45.93	0.40	76.6
2017	2,864,474	148,128	2.13	41.23	1.20	98.2	26,208	4,356	11.42	68.69	0.49	83.2
Rolling 12 Months Ending in April												
2016	10,177,973	523,531	2.23	43.27	1.19	103.3	80,136	13,115	9.82	60.03	0.43	83.8
2017	9,312,246	480,342	2.15	41.66	1.20	94.8	75,146	12,347	10.47	63.71	0.48	78.3

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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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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - April 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
Year to Date												
2015	36,921	1,300	1.89	53.72	5.15	123.4	1,346,408	1,305,129	4.02	4.14	96.1	2.80
2016	34,611	1,228	1.15	32.56	5.51	103.8	1,499,447	1,450,634	2.87	2.97	97.3	2.44
2017	29,115	1,039	2.05	57.45	5.54	123.1	1,118,032	1,081,710	3.81	3.94	84.4	2.65
Rolling 12 Months Ending in April												
2016	113,619	3,997	1.54	43.88	5.34	122.7	4,870,788	4,710,545	3.18	3.29	96.4	2.56
2017	94,210	3,350	1.81	51.07	5.38	108.3	4,678,572	4,523,979	3.40	3.52	93.3	2.60

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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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - April 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
Year to Date												
2015	1,261,430	66,649	2.18	41.38	1.62	98.2	21,927	3,653	13.60	81.80	0.50	51.3
2016	855,781	45,136	1.97	37.41	1.88	94.2	7,416	1,267	7.62	44.69	0.46	60.3
2017	1,012,358	53,893	1.93	36.35	1.63	99.6	6,844	1,162	12.79	75.36	0.47	77.2
Rolling 12 Months Ending in April												
2016	3,325,860	177,469	2.04	38.14	1.73	99.7	40,737	6,803	W	W	0.45	121.2
2017	3,135,669	167,499	1.93	36.06	1.67	90.9	25,163	4,264	W	W	0.48	81.0

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - April 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
Year to Date												
2015	4,447	159	2.35	65.65	4.92	59.3	1,314,953	1,272,214	3.82	3.95	92.6	W
2016	5,156	188	2.50	68.50	5.45	94.8	1,381,257	1,334,702	2.29	2.37	93.3	W
2017	0	0	--	--	--	0.0	994,766	962,239	3.42	3.54	80.9	2.63
Rolling 12 Months Ending in April												
2016	15,260	552	W	W	5.43	78.0	4,749,595	4,592,683	2.51	2.59	93.4	W
2017	8,409	304	W	W	5.43	43.6	4,398,717	4,255,817	2.82	2.92	90.8	W

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - April 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
Year to Date												
2015	1,264	58	W	W	2.35	17.4	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	6.9	0	0	--	--	--	0.0
2017	308	13	W	W	2.99	6.6	0	0	--	--	--	0.0
Rolling 12 Months Ending in April												
2016	1,610	70	W	W	2.81	9.4	0	0	--	--	--	0.0
2017	1,162	51	W	W	3.06	8.3	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.

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - April 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
Year to Date												
2015	0	0	--	--	--	0.0	1,789	1,763	W	W	5.0	W
2016	0	0	--	--	--	0.0	2,927	2,857	W	W	7.4	W
2017	0	0	--	--	--	0.0	2,490	2,414	W	W	6.1	W
Rolling 12 Months Ending in April												
2016	0	0	--	--	--	0.0	7,638	7,465	W	W	6.2	W
2017	0	0	--	--	--	0.0	7,568	7,323	W	W	6.2	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.

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - April 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
Year to Date												
2015	88,574	4,062	W	W	1.37	68.4	954	155	14.33	88.04	1.47	15.6
2016	53,949	2,416	W	W	1.53	45.8	763	125	9.00	55.07	1.24	20.6
2017	62,325	2,943	W	W	1.22	64.8	586	94	11.37	70.97	1.23	17.0
Rolling 12 Months Ending in April												
2016	229,004	10,486	W	W	1.39	64.3	2,168	354	W	W	1.34	18.7
2017	159,883	7,382	W	W	1.33	54.4	1,640	268	W	W	1.20	14.1

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - April 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
Year to Date												
2015	3,471	127	W	W	5.65	26.8	247,868	239,825	W	W	61.9	W
2016	1,764	65	W	W	5.88	16.9	242,197	234,742	W	W	57.3	W
2017	0	0	--	--	--	0.0	219,742	212,783	W	W	49.9	W
Rolling 12 Months Ending in April												
2016	6,482	242	W	W	5.52	20.6	760,293	735,892	W	W	59.1	W
2017	1,899	71	W	W	5.79	6.5	730,321	707,782	W	W	55.6	W

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

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

- Values for 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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, April 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	4	85	-95.0%	0	10	4	73	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	5	-29.0%	0	0	4	4	0	0	0	1
Massachusetts	0	69	-100.0%	0	0	0	69	0	0	0	0
New Hampshire	0	10	-100.0%	0	10	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	1,202	1,062	13.0%	0	0	1,182	1,039	0	0	20	23
New Jersey	8	16	-48.0%	0	0	8	16	0	0	0	0
New York	20	16	25.0%	0	0	11	0	0	0	8	16
Pennsylvania	1,174	1,031	14.0%	0	0	1,163	1,024	0	0	11	7
East North Central	10,785	9,814	9.9%	6,589	5,994	4,030	3,612	0	0	165	207
Illinois	2,961	2,566	15.0%	605	596	2,205	1,829	0	0	152	141
Indiana	2,255	2,185	3.2%	2,136	2,051	119	134	0	0	0	0
Michigan	1,977	1,836	7.7%	1,939	1,801	37	35	0	0	1	0
Ohio	2,223	2,170	2.5%	553	532	1,669	1,614	0	0	0	23
Wisconsin	1,368	1,057	29.0%	1,355	1,014	0	0	0	0	13	43
West North Central	7,378	7,129	3.5%	7,127	7,057	0	0	0	0	251	71
Iowa	894	1,111	-19.0%	757	1,040	0	0	0	0	138	71
Kansas	589	729	-19.0%	589	729	0	0	0	0	0	0
Minnesota	765	512	49.0%	699	512	0	0	0	0	66	0
Missouri	2,735	2,336	17.0%	2,735	2,336	0	0	0	0	0	0
Nebraska	846	859	-1.5%	799	859	0	0	0	0	47	0
North Dakota	1,506	1,496	0.6%	1,506	1,496	0	0	0	0	0	0
South Dakota	43	85	-50.0%	43	85	0	0	0	0	0	0
South Atlantic	6,860	6,802	0.8%	5,908	5,927	850	802	0	0	103	73
Delaware	35	35	0.4%	0	0	35	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,109	1,032	7.5%	1,088	1,007	0	24	0	0	21	0
Georgia	1,431	1,262	13.0%	1,424	1,252	0	0	0	0	7	10
Maryland	225	456	-51.0%	0	0	211	439	0	0	14	18
North Carolina	1,102	548	101.0%	1,072	548	2	0	0	0	28	0
South Carolina	618	679	-9.1%	610	672	0	0	0	0	7	8
Virginia	456	525	-13.0%	398	465	33	34	0	0	25	26
West Virginia	1,884	2,264	-17.0%	1,315	1,983	568	270	0	0	0	11
East South Central	4,704	4,428	6.2%	4,396	4,263	226	56	0	0	83	109
Alabama	1,190	1,018	17.0%	1,190	1,018	0	0	0	0	0	0
Kentucky	2,730	2,795	-2.3%	2,730	2,795	0	0	0	0	0	0
Mississippi	264	111	139.0%	39	54	226	56	0	0	0	0
Tennessee	520	505	3.0%	437	395	0	0	0	0	83	109
West South Central	8,654	5,238	65.0%	3,271	2,421	5,346	2,812	0	0	37	6
Arkansas	738	760	-2.9%	714	607	16	147	0	0	7	6
Louisiana	642	287	123.0%	348	124	294	163	0	0	0	0
Oklahoma	509	613	-17.0%	442	515	37	98	0	0	30	0
Texas	6,765	3,578	89.0%	1,766	1,175	4,999	2,403	0	0	0	0
Mountain	6,329	5,463	16.0%	5,787	4,935	541	520	0	0	0	8
Arizona	1,363	979	39.0%	1,363	979	0	0	0	0	0	0
Colorado	1,213	1,017	19.0%	1,213	1,017	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	466	491	-5.1%	17	0	449	491	0	0	0	0
Nevada	32	139	-77.0%	0	109	32	30	0	0	0	0
New Mexico	782	565	38.0%	782	565	0	0	0	0	0	0
Utah	793	868	-8.6%	778	860	15	0	0	0	0	8
Wyoming	1,680	1,405	20.0%	1,635	1,405	45	0	0	0	0	0
Pacific Contiguous	176	57	210.0%	0	0	110	2	0	0	66	55
California	66	55	19.0%	0	0	0	0	0	0	66	55
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	110	2	NM	0	0	110	2	0	0	0	0
Pacific Noncontiguous	76	66	16.0%	16	3	61	63	0	0	0	0
Alaska	16	3	384.0%	16	3	0	0	0	0	0	0
Hawaii	61	63	-3.1%	0	0	61	63	0	0	0	0
U.S. Total	46,168	40,144	15.0%	33,094	30,610	12,350	8,980	0	0	724	554

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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:
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) April 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	161	592	-73.0%	45	10	116	577	0	0	0	5
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	30	31	-5.3%	0	0	30	26	0	0	0	5
Massachusetts	87	466	-81.0%	0	0	87	466	0	0	0	0
New Hampshire	45	10	340.0%	45	10	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,815	5,881	16.0%	0	0	6,678	5,750	0	0	137	131
New Jersey	204	180	13.0%	0	0	204	180	0	0	0	0
New York	138	89	56.0%	0	0	56	0	0	0	82	89
Pennsylvania	6,473	5,612	15.0%	0	0	6,418	5,570	0	0	55	42
East North Central	43,718	41,263	5.9%	25,467	23,611	17,601	16,826	0	0	650	825
Illinois	13,936	12,091	15.0%	2,863	2,430	10,439	9,090	0	0	633	571
Indiana	9,022	9,720	-7.2%	8,519	9,012	504	708	0	0	0	0
Michigan	5,891	5,043	17.0%	5,849	4,997	37	35	0	0	4	10
Ohio	8,825	9,518	-7.3%	2,204	2,431	6,621	6,993	0	0	0	94
Wisconsin	6,044	4,891	24.0%	6,031	4,741	0	0	0	0	13	150
West North Central	36,658	35,506	3.2%	35,604	35,092	0	0	13	19	1,040	395
Iowa	4,369	5,463	-20.0%	3,696	5,068	0	0	0	0	672	395
Kansas	3,824	3,787	1.0%	3,824	3,787	0	0	0	0	0	0
Minnesota	4,199	3,657	15.0%	4,067	3,657	0	0	0	0	132	0
Missouri	12,136	11,073	9.6%	12,122	11,054	0	0	13	19	0	0
Nebraska	4,362	3,982	9.5%	4,125	3,982	0	0	0	0	236	0
North Dakota	7,404	7,128	3.9%	7,404	7,128	0	0	0	0	0	0
South Dakota	364	416	-12.0%	364	416	0	0	0	0	0	0
South Atlantic	29,398	29,475	-0.3%	25,468	25,938	3,544	3,187	0	0	387	350
Delaware	141	106	33.0%	0	0	141	106	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,832	4,191	15.0%	4,766	4,142	13	49	0	0	53	0
Georgia	5,646	4,854	16.0%	5,613	4,815	0	0	0	0	33	38
Maryland	1,544	1,330	16.0%	0	0	1,470	1,245	0	0	74	85
North Carolina	4,536	3,213	41.0%	4,397	3,213	16	0	0	0	122	0
South Carolina	2,299	3,100	-26.0%	2,280	3,042	0	0	0	0	19	58
Virginia	2,026	2,726	-26.0%	1,828	2,451	113	159	0	0	85	116
West Virginia	8,374	9,955	-16.0%	6,583	8,275	1,791	1,628	0	0	0	52
East South Central	20,316	19,851	2.3%	19,075	18,522	894	872	0	0	347	456
Alabama	4,930	4,625	6.6%	4,930	4,625	0	0	0	0	0	0
Kentucky	11,943	11,869	0.6%	11,943	11,869	0	0	0	0	0	0
Mississippi	1,142	1,062	7.6%	248	190	894	872	0	0	0	0
Tennessee	2,300	2,295	0.2%	1,954	1,839	0	0	0	0	347	456
West South Central	37,595	27,608	36.0%	16,275	13,584	21,158	14,001	0	0	163	23
Arkansas	3,771	4,003	-5.8%	3,581	3,323	164	658	0	0	27	23
Louisiana	2,831	1,931	47.0%	1,668	1,442	1,164	488	0	0	0	0
Oklahoma	2,680	3,158	-15.0%	2,235	2,838	309	320	0	0	136	0
Texas	28,312	18,516	53.0%	8,791	5,981	19,521	12,535	0	0	0	0
Mountain	29,086	26,436	10.0%	25,970	23,621	3,116	2,782	0	0	0	33
Arizona	5,312	4,239	25.0%	5,312	4,239	0	0	0	0	0	0
Colorado	5,398	4,979	8.4%	5,398	4,979	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,721	2,666	2.1%	92	0	2,629	2,666	0	0	0	0
Nevada	181	321	-44.0%	0	204	181	116	0	0	0	0
New Mexico	3,811	2,981	28.0%	3,811	2,981	0	0	0	0	0	0
Utah	3,902	3,969	-1.7%	3,777	3,936	125	0	0	0	0	33
Wyoming	7,762	7,282	6.6%	7,580	7,282	182	0	0	0	0	0
Pacific Contiguous	990	1,269	-22.0%	165	235	607	837	0	0	219	197
California	219	197	11.0%	0	0	0	0	0	0	219	197
Oregon	165	235	-30.0%	165	235	0	0	0	0	0	0
Washington	607	837	-28.0%	0	0	607	837	0	0	0	0
Pacific Noncontiguous	239	384	-38.0%	60	82	179	302	0	0	0	0
Alaska	60	82	-27.0%	60	82	0	0	0	0	0	0
Hawaii	179	302	-41.0%	0	0	179	302	0	0	0	0
U.S. Total	204,977	188,266	8.9%	148,128	140,696	53,893	45,136	13	19	2,943	2,416

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	0	3	-85.0%	0	0	0	1	0	0	0	2
Connecticut	0	0	-100.0%	0	0	0	0	0	0	0	0
Maine	0	3	-85.0%	0	0	0	1	0	0	0	2
Massachusetts	0	0	-69.0%	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	55	31	75.0%	0	2	40	27	0	0	15	2
New Jersey	0	0	6.9%	0	0	0	0	0	0	0	0
New York	36	4	868.0%	0	2	28	1	0	0	9	0
Pennsylvania	19	27	-32.0%	0	0	13	25	0	0	6	2
East North Central	48	45	5.6%	36	28	10	15	0	0	2	1
Illinois	5	9	-42.0%	0	1	5	9	0	0	0	0
Indiana	18	9	96.0%	18	9	0	0	0	0	0	0
Michigan	6	8	-18.0%	6	7	0	0	0	0	0	0
Ohio	15	14	8.8%	9	6	5	7	0	0	1	1
Wisconsin	3	5	-42.0%	3	5	0	0	0	0	0	0
West North Central	30	20	46.0%	30	20	0	0	0	0	0	0
Iowa	7	4	89.0%	7	4	0	0	0	0	0	0
Kansas	13	0	--	13	0	0	0	0	0	0	0
Minnesota	1	1	-43.0%	1	1	0	0	0	0	0	0
Missouri	5	9	-48.0%	5	9	0	0	0	0	0	0
Nebraska	0	2	-100.0%	0	2	0	0	0	0	0	0
North Dakota	4	5	-10.0%	4	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	119	445	-73.0%	104	381	6	40	0	0	9	24
Delaware	2	11	-84.0%	0	0	2	11	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	47	30	57.0%	43	30	0	0	0	0	4	0
Georgia	8	27	-69.0%	7	21	0	0	0	0	1	6
Maryland	3	10	-73.0%	0	0	3	10	0	0	0	0
North Carolina	24	15	64.0%	20	15	0	0	0	0	4	0
South Carolina	14	47	-70.0%	14	34	0	0	0	0	0	13
Virginia	4	291	-99.0%	2	268	1	19	0	0	1	4
West Virginia	17	14	22.0%	17	14	0	0	0	0	0	0
East South Central	27	33	-20.0%	27	33	0	0	0	0	0	1
Alabama	3	1	527.0%	3	1	0	0	0	0	0	0
Kentucky	13	23	-44.0%	13	23	0	0	0	0	0	0
Mississippi	1	1	0.6%	1	1	0	0	0	0	0	0
Tennessee	9	9	2.4%	9	8	0	0	0	0	0	1
West South Central	25	62	-60.0%	13	56	12	6	0	0	0	0
Arkansas	5	8	-37.0%	4	7	1	1	0	0	0	0
Louisiana	0	43	-100.0%	0	43	0	0	0	0	0	0
Oklahoma	1	0	--	1	0	0	0	0	0	0	0
Texas	19	10	77.0%	8	6	10	5	0	0	0	0
Mountain	37	39	-4.1%	34	37	4	2	0	0	0	0
Arizona	4	14	-68.0%	4	14	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	2	1	75.0%	0	0	2	1	0	0	0	0
Nevada	1	2	-74.0%	0	2	1	1	0	0	0	0
New Mexico	6	11	-44.0%	6	11	0	0	0	0	0	0
Utah	13	5	147.0%	12	5	1	0	0	0	0	0
Wyoming	12	4	165.0%	12	4	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	692	726	-4.6%	531	567	161	158	0	0	0	0
Alaska	0	0	-100.0%	0	0	0	0	0	0	0	0
Hawaii	692	725	-4.6%	531	567	161	158	0	0	0	0
U.S. Total	1,033	1,404	-26.0%	774	1,125	233	249	0	0	26	29

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

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) April 2017 and 2016
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	188	32	479.0%	8	4	181	26	0	0	0	2
Connecticut	19	5	246.0%	0	0	19	5	0	0	0	0
Maine	84	12	575.0%	0	0	84	10	0	0	0	2
Massachusetts	78	3	NM	0	0	78	2	0	0	0	0
New Hampshire	8	4	86.0%	8	4	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	374	256	46.0%	161	15	183	233	0	0	30	7
New Jersey	1	4	-76.0%	0	0	1	4	0	0	0	0
New York	247	144	71.0%	161	15	76	124	0	0	11	5
Pennsylvania	126	108	16.0%	0	0	106	106	0	0	20	2
East North Central	225	325	-31.0%	137	178	79	138	0	0	10	8
Illinois	33	47	-31.0%	1	1	32	46	0	0	0	0
Indiana	56	72	-21.0%	56	72	0	0	0	0	0	0
Michigan	41	57	-27.0%	37	55	0	0	0	0	5	2
Ohio	85	135	-37.0%	33	36	47	92	0	0	5	6
Wisconsin	10	14	-26.0%	10	14	0	0	0	0	0	0
West North Central	142	102	39.0%	142	102	0	0	0	0	0	0
Iowa	32	23	39.0%	32	23	0	0	0	0	0	0
Kansas	33	10	228.0%	33	10	0	0	0	0	0	0
Minnesota	6	7	-15.0%	6	7	0	0	0	0	0	0
Missouri	31	37	-17.0%	31	37	0	0	0	0	0	0
Nebraska	0	2	-100.0%	0	2	0	0	0	0	0	0
North Dakota	36	21	66.0%	36	21	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	1,455	1,354	7.4%	1,302	983	103	268	0	0	50	104
Delaware	6	43	-86.0%	0	0	6	43	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,055	72	NM	1,045	72	0	0	0	0	10	0
Georgia	61	136	-55.0%	46	85	3	30	0	0	13	21
Maryland	40	71	-44.0%	0	0	40	71	0	0	0	0
North Carolina	122	139	-13.0%	110	78	1	61	0	0	11	0
South Carolina	43	135	-68.0%	33	64	0	0	0	0	10	71
Virginia	69	692	-90.0%	10	619	53	63	0	0	6	11
West Virginia	59	65	-9.4%	59	65	0	0	0	0	0	0
East South Central	131	164	-20.0%	123	150	4	10	0	0	4	3
Alabama	18	39	-53.0%	15	29	4	10	0	0	0	0
Kentucky	63	64	-2.2%	63	64	0	0	0	0	0	0
Mississippi	7	12	-46.0%	7	12	0	0	0	0	0	0
Tennessee	43	49	-11.0%	39	45	0	0	0	0	4	3
West South Central	73	107	-32.0%	24	93	49	14	0	0	0	0
Arkansas	27	25	6.4%	6	23	21	2	0	0	0	0
Louisiana	0	45	-100.0%	0	43	0	2	0	0	0	0
Oklahoma	2	1	165.0%	2	1	0	0	0	0	0	0
Texas	44	36	23.0%	16	26	28	10	0	0	0	0
Mountain	123	117	4.8%	112	110	10	7	0	0	0	0
Arizona	21	31	-32.0%	21	31	0	0	0	0	0	0
Colorado	1	8	-93.0%	1	8	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	6	5	16.0%	0	0	6	5	0	0	0	0
Nevada	2	7	-67.0%	0	5	2	2	0	0	0	0
New Mexico	27	36	-26.0%	27	36	0	0	0	0	0	0
Utah	36	10	271.0%	34	10	2	0	0	0	0	0
Wyoming	30	20	51.0%	30	20	0	0	0	0	0	0
Pacific Contiguous	13	2	588.0%	7	0	6	2	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	6	2	213.0%	0	0	6	2	0	0	0	0
Pacific Noncontiguous	2,888	2,884	0.1%	2,340	2,317	548	567	0	0	0	0
Alaska	1	3	-79.0%	1	3	0	0	0	0	0	0
Hawaii	2,888	2,881	0.2%	2,339	2,314	548	567	0	0	0	0
U.S. Total	5,612	5,343	5.0%	4,356	3,951	1,162	1,267	0	0	94	125

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 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	32	121	-73.0%	32	76	0	44	0	0	0	1
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	35	-100.0%	0	35	0	0	0	0	0	0
Michigan	31	40	-23.0%	31	40	0	0	0	0	0	0
Ohio	0	44	-100.0%	0	0	0	44	0	0	0	0
Wisconsin	2	3	-46.0%	2	2	0	0	0	0	0	1
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	24	143	-83.0%	24	119	0	0	0	0	0	23
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	24	119	-80.0%	24	119	0	0	0	0	0	0
Georgia	0	23	-100.0%	0	0	0	0	0	0	0	23
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	24	0	--	24	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	24	0	--	24	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	128	105	22.0%	128	105	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	128	105	22.0%	128	105	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	208	369	-44.0%	208	300	0	44	0	0	0	25

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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) April 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 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	147	462	-68.0%	147	255	0	188	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	139	87	60.0%	139	87	0	0	0	0	0	0
Ohio	0	188	-100.0%	0	0	0	188	0	0	0	0
Wisconsin	8	25	-68.0%	8	6	0	0	0	0	0	18
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	172	492	-65.0%	172	445	0	0	0	0	0	47
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	172	445	-61.0%	172	445	0	0	0	0	0	0
Georgia	0	47	-100.0%	0	0	0	0	0	0	0	47
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	107	47	125.0%	107	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	107	47	125.0%	107	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	613	480	28.0%	613	480	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	613	480	28.0%	613	480	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	1,039	1,481	-30.0%	1,039	1,228	0	188	0	0	0	65

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	22,916	29,939	-23.0%	8	173	22,908	29,766	0	0	0	0
Connecticut	6,687	11,128	-40.0%	0	0	6,687	11,128	0	0	0	0
Maine	10	1,449	-99.0%	0	0	10	1,449	0	0	0	0
Massachusetts	11,370	10,787	5.4%	7	119	11,363	10,668	0	0	0	0
New Hampshire	3,574	3,612	-1.0%	2	54	3,573	3,558	0	0	0	0
Rhode Island	1,275	2,963	-57.0%	0	0	1,275	2,963	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	55,376	84,577	-35.0%	5,192	6,932	49,911	77,466	0	0	273	179
New Jersey	10,989	22,702	-52.0%	0	0	10,989	22,702	0	0	0	0
New York	21,209	30,072	-29.0%	5,192	6,932	15,916	23,079	0	0	101	61
Pennsylvania	23,178	31,802	-27.0%	0	0	23,006	31,685	0	0	172	118
East North Central	38,034	65,231	-42.0%	15,180	27,450	21,271	36,431	360	410	1,223	941
Illinois	3,466	8,581	-60.0%	25	822	3,438	7,757	0	0	4	2
Indiana	7,320	8,820	-17.0%	6,117	6,274	1,203	2,546	0	0	0	0
Michigan	12,248	22,491	-46.0%	2,619	8,420	8,773	13,125	360	410	497	537
Ohio	10,953	16,038	-32.0%	3,444	4,192	7,031	11,838	0	0	478	8
Wisconsin	4,047	9,301	-56.0%	2,975	7,742	826	1,164	0	0	245	395
West North Central	3,828	12,556	-70.0%	3,390	10,042	0	2,353	130	158	308	3
Iowa	1,973	1,025	93.0%	1,666	1,021	0	0	0	0	307	3
Kansas	1,156	865	34.0%	1,156	865	0	0	0	0	0	0
Minnesota	45	5,561	-99.0%	44	4,423	0	1,138	1	0	1	0
Missouri	384	4,301	-91.0%	255	2,928	0	1,215	130	158	0	0
Nebraska	117	269	-57.0%	117	269	0	0	0	0	0	0
North Dakota	152	31	399.0%	152	31	0	0	0	0	0	0
South Dakota	0	505	-100.0%	0	505	0	0	0	0	0	0
South Atlantic	153,101	184,138	-17.0%	128,611	147,796	21,876	33,309	0	0	2,614	3,033
Delaware	1,952	5,483	-64.0%	0	0	1,952	4,282	0	0	0	1,201
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84,005	98,127	-14.0%	81,737	91,055	2,109	7,072	0	0	159	0
Georgia	19,598	31,437	-38.0%	14,782	20,530	4,018	10,221	0	0	798	686
Maryland	3,366	3,529	-4.6%	0	0	3,164	3,328	0	0	203	201
North Carolina	16,251	23,903	-32.0%	14,090	20,450	2,141	3,453	0	0	20	0
South Carolina	9,544	6,678	43.0%	8,360	5,420	1,096	1,031	0	0	88	227
Virginia	17,644	13,819	28.0%	9,561	10,120	7,255	3,030	0	0	828	669
West Virginia	740	1,162	-36.0%	80	221	141	892	0	0	518	49
East South Central	59,628	59,815	-0.3%	40,647	40,981	17,635	18,137	0	0	1,345	697
Alabama	25,874	24,986	3.6%	9,898	8,324	15,976	16,662	0	0	0	0
Kentucky	4,364	4,475	-2.5%	4,276	4,471	88	4	0	0	0	0
Mississippi	22,128	24,510	-9.7%	20,557	23,039	1,571	1,471	0	0	0	0
Tennessee	7,262	5,845	24.0%	5,917	5,147	0	0	0	0	1,345	697
West South Central	157,470	222,240	-29.0%	34,423	64,702	80,341	106,846	0	0	42,706	50,692
Arkansas	6,985	10,558	-34.0%	1	2,313	6,889	8,048	0	0	95	197
Louisiana	34,708	42,850	-19.0%	13,837	21,042	4,330	4,228	0	0	16,542	17,580
Oklahoma	14,289	20,173	-29.0%	8,823	14,500	5,331	5,673	0	0	135	0
Texas	101,488	148,659	-32.0%	11,764	26,847	63,791	88,898	0	0	25,934	32,915
Mountain	38,110	50,879	-25.0%	31,908	44,166	6,149	6,673	0	0	52	40
Arizona	14,186	18,510	-23.0%	10,842	14,588	3,343	3,922	0	0	0	0
Colorado	6,820	8,235	-17.0%	5,910	7,227	910	1,008	0	0	0	0
Idaho	0	437	-100.0%	0	40	0	398	0	0	0	0
Montana	250	0	--	250	0	0	0	0	0	0	0
Nevada	10,460	13,413	-22.0%	10,460	13,413	0	0	0	0	0	0
New Mexico	4,223	5,289	-20.0%	2,436	3,987	1,787	1,302	0	0	0	0
Utah	2,115	4,987	-58.0%	1,957	4,904	106	44	0	0	52	40
Wyoming	55	7	714.0%	53	7	2	0	0	0	0	0
Pacific Contiguous	29,027	38,491	-25.0%	12,859	12,750	13,511	22,424	0	0	2,657	3,318
California	26,413	33,851	-22.0%	11,225	10,926	12,531	19,607	0	0	2,657	3,318
Oregon	980	3,134	-69.0%	0	1,017	980	2,117	0	0	0	0
Washington	1,634	1,507	8.4%	1,634	807	0	700	0	0	0	0
Pacific Noncontiguous	136	1,161	-88.0%	136	1,161	0	0	0	0	0	0
Alaska	136	1,161	-88.0%	136	1,161	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	557,625	749,028	-26.0%	272,355	356,152	233,602	333,405	490	567	51,178	58,903

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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) April 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	83,622	105,198	-21.0%	12	282	83,610	104,915	0	0	0	0
Connecticut	31,932	39,462	-19.0%	0	0	31,932	39,462	0	0	0	0
Maine	15	6,460	-100.0%	0	0	15	6,460	0	0	0	0
Massachusetts	41,042	39,144	4.8%	7	228	41,035	38,916	0	0	0	0
New Hampshire	7,053	7,719	-8.6%	5	55	7,047	7,665	0	0	0	0
Rhode Island	3,580	12,412	-71.0%	0	0	3,580	12,412	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	250,545	329,031	-24.0%	24,388	27,200	225,064	301,070	0	0	1,093	760
New Jersey	44,880	87,971	-49.0%	0	0	44,880	87,971	0	0	0	0
New York	93,982	111,152	-15.0%	24,388	27,200	69,271	83,623	0	0	323	328
Pennsylvania	111,683	129,908	-14.0%	0	0	110,913	129,477	0	0	770	432
East North Central	181,392	268,789	-33.0%	69,841	116,410	104,231	146,516	2,047	2,421	5,273	3,442
Illinois	19,495	35,256	-45.0%	70	2,745	19,405	32,500	0	0	21	11
Indiana	36,851	45,608	-19.0%	29,255	35,024	7,596	10,584	0	0	0	0
Michigan	53,513	73,458	-27.0%	10,437	21,901	38,773	47,199	2,047	2,421	2,256	1,937
Ohio	53,823	72,480	-26.0%	15,962	18,964	35,928	53,418	0	0	1,933	98
Wisconsin	17,710	41,987	-58.0%	14,116	37,776	2,530	2,815	0	0	1,063	1,395
West North Central	8,906	44,335	-80.0%	7,626	37,715	13	6,177	367	436	900	7
Iowa	2,793	7,442	-62.0%	1,936	7,435	0	0	0	0	857	7
Kansas	3,701	2,786	33.0%	3,701	2,786	0	0	0	0	0	0
Minnesota	194	20,451	-99.0%	135	17,147	13	3,303	3	1	43	0
Missouri	1,344	10,784	-88.0%	980	7,475	0	2,874	364	435	0	0
Nebraska	419	576	-27.0%	419	576	0	0	0	0	0	0
North Dakota	454	359	26.0%	454	359	0	0	0	0	0	0
South Dakota	0	1,937	-100.0%	0	1,937	0	0	0	0	0	0
South Atlantic	614,990	713,701	-14.0%	527,027	588,083	76,739	113,389	0	0	11,224	12,230
Delaware	7,867	16,312	-52.0%	0	0	7,867	11,802	0	0	0	4,510
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	299,121	348,874	-14.0%	295,106	327,914	3,165	20,960	0	0	849	0
Georgia	95,103	118,183	-20.0%	73,349	88,139	18,565	26,445	0	0	3,189	3,599
Maryland	10,154	11,152	-9.0%	0	0	9,323	10,461	0	0	830	691
North Carolina	81,950	100,022	-18.0%	72,583	89,776	9,103	10,246	0	0	264	0
South Carolina	32,321	33,711	-4.1%	28,050	25,742	3,852	7,195	0	0	418	774
Virginia	85,208	82,689	3.0%	57,531	56,194	24,611	24,014	0	0	3,067	2,481
West Virginia	3,267	2,758	18.0%	409	317	251	2,267	0	0	2,606	174
East South Central	225,879	273,387	-17.0%	151,191	182,496	69,014	88,470	0	0	5,673	2,421
Alabama	94,549	114,180	-17.0%	35,237	35,521	59,312	78,659	0	0	0	0
Kentucky	13,303	19,837	-33.0%	12,424	19,100	879	737	0	0	0	0
Mississippi	88,770	112,207	-21.0%	79,947	103,134	8,823	9,073	0	0	0	0
Tennessee	29,257	27,163	7.7%	23,584	24,742	0	0	0	0	5,673	2,421
West South Central	588,013	876,773	-33.0%	113,889	249,467	297,504	425,341	0	0	176,620	201,965
Arkansas	19,685	38,356	-49.0%	13	14,729	18,934	22,707	0	0	738	920
Louisiana	129,567	175,115	-26.0%	52,455	83,584	12,283	20,569	0	0	64,830	70,961
Oklahoma	48,275	75,745	-36.0%	30,031	55,034	17,817	20,711	0	0	427	0
Texas	390,486	587,556	-34.0%	31,391	96,120	248,470	361,353	0	0	110,625	130,084
Mountain	141,650	192,816	-27.0%	121,760	159,184	19,594	33,345	0	0	295	288
Arizona	36,378	59,864	-39.0%	28,606	42,644	7,772	17,220	0	0	0	0
Colorado	25,008	28,986	-14.0%	21,162	24,542	3,846	4,444	0	0	0	0
Idaho	0	7,032	-100.0%	0	3,667	0	3,365	0	0	0	0
Montana	938	0	--	938	0	0	0	0	0	0	0
Nevada	48,689	57,128	-15.0%	48,689	57,128	0	0	0	0	0	0
New Mexico	19,273	22,274	-13.0%	11,688	14,066	7,585	8,208	0	0	0	0
Utah	11,184	17,507	-36.0%	10,500	17,111	389	108	0	0	295	288
Wyoming	180	26	595.0%	178	26	2	0	0	0	0	0
Pacific Contiguous	163,626	214,107	-24.0%	65,451	84,998	86,470	115,480	0	0	11,705	13,630
California	141,224	165,652	-15.0%	55,875	62,256	73,644	89,767	0	0	11,705	13,630
Oregon	15,285	29,991	-49.0%	2,459	11,432	12,826	18,559	0	0	0	0
Washington	7,117	18,464	-61.0%	7,117	11,310	0	7,154	0	0	0	0
Pacific Noncontiguous	525	4,799	-89.0%	525	4,799	0	0	0	0	0	0
Alaska	525	4,799	-89.0%	525	4,799	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,259,147	3,022,935	-25.0%	1,081,710	1,450,634	962,239	1,334,702	2,414	2,857	212,783	234,742

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016
New England	W	W	W	--	3.94	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	3.94	--	--	3.94	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.99	2.10	-5.2%	--	--	1.99	2.10
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	2.03	2.07	-1.9%	2.11	2.17	1.89	1.90
Illinois	W	W	W	1.82	2.01	W	W
Indiana	W	W	W	2.18	2.22	W	W
Michigan	W	W	W	2.18	2.22	W	W
Ohio	1.90	2.04	-6.9%	1.72	1.88	1.96	2.09
Wisconsin	2.24	2.29	-2.2%	2.24	2.29	--	--
West North Central	1.80	1.73	4.0%	1.80	1.73	--	--
Iowa	1.73	1.65	4.8%	1.73	1.65	--	--
Kansas	1.84	1.70	8.2%	1.84	1.70	--	--
Minnesota	2.11	2.05	2.9%	2.11	2.05	--	--
Missouri	1.86	1.86	0.0%	1.86	1.86	--	--
Nebraska	1.37	1.32	3.8%	1.37	1.32	--	--
North Dakota	1.76	1.67	5.4%	1.76	1.67	--	--
South Dakota	2.34	2.23	4.9%	2.34	2.23	--	--
South Atlantic	2.69	2.78	-3.2%	2.73	2.80	2.41	2.66
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.85	W	W	2.85	3.20	--	W
Georgia	2.77	2.82	-1.8%	2.77	2.82	--	--
Maryland	2.85	2.83	0.7%	--	--	2.85	2.83
North Carolina	W	3.05	W	2.97	3.05	W	--
South Carolina	3.26	3.24	0.6%	3.26	3.24	--	--
Virginia	W	W	W	2.75	2.90	W	W
West Virginia	W	2.35	W	2.18	2.37	W	2.15
East South Central	W	W	W	2.04	2.26	W	W
Alabama	2.14	2.60	-18.0%	2.14	2.60	--	--
Kentucky	1.95	2.13	-8.5%	1.95	2.13	--	--
Mississippi	W	W	W	2.04	2.57	W	W
Tennessee	2.37	2.31	2.6%	2.37	2.31	--	--
West South Central	2.02	1.86	8.6%	2.12	2.07	1.95	1.65
Arkansas	W	W	W	2.02	2.15	W	W
Louisiana	W	W	W	2.51	2.34	W	W
Oklahoma	W	W	W	1.93	1.91	W	W
Texas	W	1.74	W	2.15	2.08	W	1.56
Mountain	W	W	W	1.91	1.88	W	W
Arizona	2.25	2.19	2.7%	2.25	2.19	--	--
Colorado	1.88	2.01	-6.5%	1.88	2.01	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.60	--	W	W
Nevada	W	W	W	--	2.01	W	W
New Mexico	1.83	1.61	14.0%	1.83	1.61	--	--
Utah	1.95	1.97	-1.0%	1.95	1.97	--	--
Wyoming	W	1.58	W	1.66	1.58	W	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.01	3.02	W	W
Alaska	3.01	3.02	-0.3%	3.01	3.02	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.10	2.15	-2.3%	2.15	2.19	1.97	1.99

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	W	W	W	4.34	3.94	W	W
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	3.94	10.0%	4.34	3.94	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.05	2.15	-4.7%	--	--	2.05	2.15
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	1.99	W	W	--	--	1.99	W
East North Central	2.02	2.09	-3.3%	2.12	2.19	1.89	1.96
Illinois	1.80	W	W	1.86	2.01	1.78	W
Indiana	W	W	W	2.16	2.25	W	W
Michigan	W	W	W	2.22	2.29	W	W
Ohio	W	2.08	W	1.75	1.95	W	2.12
Wisconsin	2.26	2.19	3.2%	2.26	2.19	--	--
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	1.72	1.70	1.2%	1.72	1.70	--	--
Minnesota	2.11	2.09	1.0%	2.11	2.09	--	--
Missouri	1.86	1.87	-0.5%	1.86	1.87	--	--
Nebraska	1.38	1.34	3.0%	1.38	1.34	--	--
North Dakota	1.62	1.55	4.5%	1.62	1.55	--	--
South Dakota	2.28	2.25	1.3%	2.28	2.25	--	--
South Atlantic	2.70	2.76	-2.2%	2.73	2.80	2.50	2.44
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.97	3.04	W	W
Georgia	2.75	2.87	-4.2%	2.75	2.87	--	--
Maryland	2.88	2.74	5.1%	--	--	2.88	2.74
North Carolina	W	3.10	W	2.97	3.10	W	--
South Carolina	3.30	3.26	1.2%	3.30	3.26	--	--
Virginia	W	W	W	2.69	2.93	W	W
West Virginia	W	W	W	2.22	2.32	W	W
East South Central	W	W	W	2.05	2.23	W	W
Alabama	2.16	2.46	-12.0%	2.16	2.46	--	--
Kentucky	1.96	2.13	-8.0%	1.96	2.13	--	--
Mississippi	W	W	W	2.92	2.69	W	W
Tennessee	2.27	2.28	-0.4%	2.27	2.28	--	--
West South Central	1.94	1.93	0.5%	2.12	2.18	1.78	1.66
Arkansas	W	W	W	2.12	2.27	W	W
Louisiana	W	W	W	2.42	2.65	W	W
Oklahoma	W	W	W	1.90	1.93	W	W
Texas	1.87	1.78	5.1%	2.13	2.12	1.76	1.61
Mountain	W	W	W	1.92	1.87	W	W
Arizona	2.24	2.19	2.3%	2.24	2.19	--	--
Colorado	1.85	1.89	-2.1%	1.85	1.89	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.71	--	W	W
Nevada	W	W	W	--	1.95	W	W
New Mexico	1.94	1.88	3.2%	1.94	1.88	--	--
Utah	1.96	1.95	0.5%	1.96	1.95	--	--
Wyoming	W	1.60	W	1.69	1.60	W	--
Pacific Contiguous	W	W	W	2.40	2.32	W	W
California	--	--	--	--	--	--	--
Oregon	2.40	2.32	3.4%	2.40	2.32	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.01	3.11	W	W
Alaska	3.01	3.11	-3.2%	3.01	3.11	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.08	2.13	-2.3%	2.13	2.18	1.93	1.97

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

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

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, April 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016
New England	W	7.19	W	--	--	W	7.19
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	9.59	W	--	8.81	W	9.66
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	8.81	W	W
Pennsylvania	W	9.55	W	--	--	W	9.55
East North Central	12.48	10.26	22.0%	12.43	10.10	12.64	10.55
Illinois	W	10.54	W	--	9.86	W	10.59
Indiana	12.19	10.34	18.0%	12.19	10.34	--	--
Michigan	12.08	10.03	20.0%	12.08	10.03	--	--
Ohio	W	10.22	W	13.37	9.90	W	10.50
Wisconsin	11.77	10.07	17.0%	11.77	10.07	--	--
West North Central	13.31	9.04	47.0%	13.31	9.04	--	--
Iowa	16.26	8.06	102.0%	16.26	8.06	--	--
Kansas	12.28	--	--	12.28	--	--	--
Minnesota	13.09	10.19	28.0%	13.09	10.19	--	--
Missouri	12.57	9.62	31.0%	12.57	9.62	--	--
Nebraska	--	9.96	--	--	9.96	--	--
North Dakota	12.75	8.08	58.0%	12.75	8.08	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	13.09	9.00	45.0%	13.13	8.89	12.29	10.54
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	14.07	10.73	31.0%	14.07	10.73	--	--
Georgia	11.83	9.47	25.0%	11.83	9.47	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	11.95	9.67	24.0%	11.95	9.67	--	--
South Carolina	13.10	9.86	33.0%	13.10	9.86	--	--
Virginia	W	W	W	13.37	8.41	W	W
West Virginia	12.72	10.93	16.0%	12.72	10.93	--	--
East South Central	12.20	9.70	26.0%	12.20	9.70	--	--
Alabama	12.92	11.33	14.0%	12.92	11.33	--	--
Kentucky	12.03	9.59	25.0%	12.03	9.59	--	--
Mississippi	11.74	10.36	13.0%	11.74	10.36	--	--
Tennessee	12.22	9.81	25.0%	12.22	9.81	--	--
West South Central	12.38	W	W	12.13	9.75	12.68	W
Arkansas	W	W	W	12.06	9.90	W	W
Louisiana	--	9.39	--	--	9.39	--	--
Oklahoma	12.89	--	--	12.89	--	--	--
Texas	W	W	W	12.06	12.18	W	W
Mountain	14.10	W	W	14.18	10.53	13.43	W
Arizona	13.55	9.87	37.0%	13.55	9.87	--	--
Colorado	--	8.88	--	--	8.88	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	9.36	W	W
New Mexico	12.86	11.44	12.0%	12.86	11.44	--	--
Utah	W	11.60	W	14.08	11.60	W	--
Wyoming	15.19	9.89	54.0%	15.19	9.89	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	10.67	7.55	W	W
Alaska	--	11.54	--	--	11.54	--	--
Hawaii	W	W	W	10.67	7.55	W	W
U.S. Total	W	W	W	11.38	8.35	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	W	9.81	W	14.17	9.76	W	9.82
Connecticut	W	8.59	W	--	--	W	8.59
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	22.24	W	W
New Hampshire	14.17	9.31	52.0%	14.17	9.31	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.88	7.32	76.0%	9.07	8.28	16.42	7.26
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	9.07	8.28	W	W
Pennsylvania	12.34	8.64	43.0%	--	--	12.34	8.64
East North Central	12.47	9.00	39.0%	12.44	9.13	12.52	8.83
Illinois	12.72	9.04	41.0%	12.04	9.26	12.74	9.04
Indiana	12.33	9.14	35.0%	12.33	9.14	--	--
Michigan	11.85	8.55	39.0%	11.85	8.55	--	--
Ohio	12.79	8.82	45.0%	13.40	9.05	12.36	8.72
Wisconsin	12.12	11.59	4.6%	12.12	11.59	--	--
West North Central	12.36	8.26	50.0%	12.36	8.26	--	--
Iowa	12.91	8.48	52.0%	12.91	8.48	--	--
Kansas	12.26	7.68	60.0%	12.26	7.68	--	--
Minnesota	12.49	9.53	31.0%	12.49	9.53	--	--
Missouri	12.42	8.70	43.0%	12.42	8.70	--	--
Nebraska	--	9.96	--	--	9.96	--	--
North Dakota	11.98	7.13	68.0%	11.98	7.13	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.44	W	W	12.40	8.44	12.98	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.39	9.65	28.0%	12.39	9.65	--	--
Georgia	W	8.26	W	11.79	8.50	W	7.60
Maryland	11.20	7.17	56.0%	--	--	11.20	7.17
North Carolina	W	W	W	12.28	8.49	W	W
South Carolina	12.94	9.78	32.0%	12.94	9.78	--	--
Virginia	W	W	W	12.58	8.04	W	W
West Virginia	12.82	9.78	31.0%	12.82	9.78	--	--
East South Central	W	W	W	12.19	8.57	W	W
Alabama	W	W	W	12.91	8.24	W	W
Kentucky	12.07	8.96	35.0%	12.07	8.96	--	--
Mississippi	12.00	7.97	51.0%	12.00	7.97	--	--
Tennessee	12.17	8.39	45.0%	12.17	8.39	--	--
West South Central	12.63	9.29	36.0%	12.29	9.38	12.79	8.68
Arkansas	W	W	W	12.07	8.83	W	W
Louisiana	--	W	W	--	9.39	--	W
Oklahoma	12.96	10.77	20.0%	12.96	10.77	--	--
Texas	W	W	W	12.27	9.80	W	W
Mountain	13.57	W	W	13.59	9.76	13.41	W
Arizona	13.73	9.85	39.0%	13.73	9.85	--	--
Colorado	12.47	8.99	39.0%	12.47	8.99	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	10.46	W	W
New Mexico	12.63	9.57	32.0%	12.63	9.57	--	--
Utah	W	9.81	W	13.88	9.81	W	--
Wyoming	14.03	10.09	39.0%	14.03	10.09	--	--
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	10.80	6.76	W	W
Alaska	16.28	11.55	41.0%	16.28	11.55	--	--
Hawaii	W	W	W	10.80	6.76	W	W
U.S. Total	11.70	7.55	55.0%	11.42	7.53	12.79	7.62

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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.

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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, April 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 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	1.15	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.47	1.30	13.0%	1.47	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.81	1.68	7.7%	1.81	1.68	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.27	1.16	96.0%	2.27	1.16	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.27	1.16	96.0%	2.27	1.16	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.52	--	--	1.52	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.52	--	--	1.52	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.16	1.11	95.0%	2.16	1.11	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.16	1.11	95.0%	2.16	1.11	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.00	W	W	2.00	1.14	--	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.50	W	W	1.50	1.09	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.48	1.29	15.0%	1.48	1.29	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.71	4.7%	1.79	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.67	1.21	121.0%	2.67	1.21	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.67	1.21	121.0%	2.67	1.21	--	--
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	2.10	1.09	93.0%	2.10	1.09	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.10	1.09	93.0%	2.10	1.09	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.05	1.33	54.0%	2.05	1.15	--	2.50

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017	April 2016	Percentage Change	April 2017	April 2016	April 2017	April 2016
New England	3.26	2.87	14.0%	5.33	3.50	3.26	2.87
Connecticut	W	2.67	W	--	--	W	2.67
Maine	W	W	W	--	--	W	W
Massachusetts	3.14	2.91	7.9%	4.64	3.66	3.14	2.90
New Hampshire	W	W	W	7.97	3.16	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.11	1.85	68.0%	2.98	1.94	3.13	1.84
New Jersey	3.23	1.70	90.0%	--	--	3.23	1.70
New York	3.29	2.29	44.0%	2.98	1.94	3.42	2.41
Pennsylvania	2.90	1.55	87.0%	--	--	2.90	1.55
East North Central	3.20	2.18	47.0%	3.22	2.37	3.18	2.02
Illinois	W	2.19	W	3.85	2.74	W	2.13
Indiana	W	W	W	2.99	2.46	W	W
Michigan	3.34	2.24	49.0%	3.51	2.34	3.29	2.17
Ohio	3.09	1.90	63.0%	3.13	2.21	3.08	1.79
Wisconsin	W	W	W	3.54	2.38	W	W
West North Central	3.20	2.33	37.0%	3.20	2.36	--	2.14
Iowa	2.69	2.47	8.9%	2.69	2.47	--	--
Kansas	3.74	3.06	22.0%	3.74	3.06	--	--
Minnesota	3.32	W	W	3.32	2.37	--	W
Missouri	2.98	W	W	2.98	2.18	--	W
Nebraska	4.09	2.28	79.0%	4.09	2.28	--	--
North Dakota	4.41	2.09	111.0%	4.41	2.09	--	--
South Dakota	--	1.94	--	--	1.94	--	--
South Atlantic	3.62	3.13	16.0%	3.65	3.28	3.38	2.15
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.52	W	W	3.52	3.54	--	W
Georgia	W	2.33	W	3.98	2.41	W	2.15
Maryland	3.21	2.29	40.0%	--	--	3.21	2.29
North Carolina	W	W	W	4.21	3.35	W	W
South Carolina	W	W	W	3.50	3.17	W	W
Virginia	3.45	W	W	3.52	2.66	3.26	W
West Virginia	3.12	1.97	58.0%	2.87	1.84	3.27	2.00
East South Central	3.29	2.19	50.0%	3.26	2.17	3.34	2.27
Alabama	W	W	W	3.36	2.34	W	W
Kentucky	W	W	W	3.55	2.53	W	W
Mississippi	W	W	W	3.23	2.09	W	W
Tennessee	3.03	1.95	55.0%	3.03	1.95	--	--
West South Central	3.17	2.09	52.0%	3.30	2.20	3.10	2.01
Arkansas	W	W	W	3.08	2.88	W	W
Louisiana	W	W	W	3.39	2.18	W	W
Oklahoma	W	W	W	3.26	2.15	W	W
Texas	3.13	2.08	50.0%	3.24	2.17	3.10	2.04
Mountain	3.68	2.39	54.0%	3.68	2.40	3.64	2.23
Arizona	W	W	W	3.90	2.46	W	W
Colorado	W	W	W	3.47	2.62	W	W
Idaho	--	11.72	--	--	11.72	--	--
Montana	2.17	--	--	2.17	--	--	--
Nevada	3.60	2.31	56.0%	3.60	2.31	--	--
New Mexico	3.69	2.53	46.0%	3.69	2.53	--	--
Utah	W	W	W	3.70	1.95	W	W
Wyoming	W	5.67	W	3.59	5.67	W	--
Pacific Contiguous	3.56	2.36	51.0%	3.87	2.82	3.22	2.05
California	W	2.40	W	3.97	2.87	W	2.08
Oregon	W	W	W	--	1.94	W	W
Washington	3.36	W	W	3.36	3.17	--	W
Pacific Noncontiguous	8.09	6.44	26.0%	8.09	6.44	--	--
Alaska	8.09	6.44	26.0%	8.09	6.44	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.38	2.44	39.0%	3.52	2.72	3.18	2.07

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2017 YTD	April 2016 YTD	Percentage Change	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	4.70	3.71	27.0%	6.51	3.34	4.70	3.71
Connecticut	5.65	4.55	24.0%	--	--	5.65	4.55
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.08	W	4.64	3.37	W	3.08
New Hampshire	W	W	W	8.69	3.23	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.67	2.30	60.0%	4.51	3.01	3.56	2.23
New Jersey	3.45	2.20	57.0%	--	--	3.45	2.20
New York	4.30	2.82	52.0%	4.51	3.01	4.20	2.75
Pennsylvania	3.23	1.93	67.0%	--	--	3.23	1.93
East North Central	3.20	2.22	44.0%	3.22	2.37	3.18	2.09
Illinois	W	2.35	W	4.45	2.59	W	2.32
Indiana	W	W	W	3.09	2.43	W	W
Michigan	3.24	2.28	42.0%	3.37	2.42	3.20	2.22
Ohio	3.14	1.85	70.0%	3.06	1.95	3.18	1.81
Wisconsin	W	W	W	3.57	2.49	W	W
West North Central	3.71	W	W	3.71	2.61	--	W
Iowa	2.96	2.47	20.0%	2.96	2.47	--	--
Kansas	4.00	3.41	17.0%	4.00	3.41	--	--
Minnesota	3.45	W	W	3.45	2.76	--	W
Missouri	2.98	W	W	2.98	2.27	--	W
Nebraska	4.98	2.45	103.0%	4.98	2.45	--	--
North Dakota	5.08	2.18	133.0%	5.08	2.18	--	--
South Dakota	--	2.00	--	--	2.00	--	--
South Atlantic	3.98	3.27	22.0%	4.03	3.39	3.44	2.28
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.10	W	W	4.10	3.68	--	W
Georgia	W	2.49	W	3.73	2.54	W	2.31
Maryland	W	3.11	W	--	--	W	3.11
North Carolina	W	W	W	4.18	3.50	W	W
South Carolina	W	W	W	3.55	3.11	W	W
Virginia	W	W	W	4.14	3.00	W	W
West Virginia	3.32	W	W	3.09	1.82	3.70	W
East South Central	3.39	2.48	37.0%	3.41	2.52	3.34	2.36
Alabama	W	W	W	3.55	2.48	W	W
Kentucky	W	W	W	4.01	2.78	W	W
Mississippi	W	W	W	3.32	2.56	W	W
Tennessee	3.18	2.22	43.0%	3.18	2.22	--	--
West South Central	3.17	2.14	48.0%	3.34	2.24	3.09	2.07
Arkansas	W	W	W	3.35	2.31	W	W
Louisiana	W	W	W	3.35	2.22	W	W
Oklahoma	W	W	W	3.38	2.28	W	W
Texas	3.12	2.13	46.0%	3.29	2.24	3.09	2.09
Mountain	3.81	W	W	3.81	2.58	3.90	W
Arizona	W	W	W	4.17	2.64	W	W
Colorado	W	W	W	3.70	2.86	W	W
Idaho	--	2.52	--	--	2.52	--	--
Montana	2.17	--	--	2.17	--	--	--
Nevada	3.76	2.53	49.0%	3.76	2.53	--	--
New Mexico	3.54	2.54	39.0%	3.54	2.54	--	--
Utah	W	W	W	3.73	2.25	W	W
Wyoming	W	6.21	W	4.52	6.21	W	--
Pacific Contiguous	3.82	2.67	43.0%	4.15	3.04	3.56	2.35
California	W	2.70	W	4.18	3.10	W	2.40
Oregon	W	W	W	3.40	2.13	W	W
Washington	4.21	W	W	4.21	3.70	--	W
Pacific Noncontiguous	8.09	6.40	26.0%	8.09	6.40	--	--
Alaska	8.09	6.40	26.0%	8.09	6.40	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.65	2.62	39.0%	3.81	2.87	3.42	2.29

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, April 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	4	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	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	1,129	2.89	8.7	0	--	--	0	--	--
New Jersey	8	1.48	7.4	0	--	--	0	--	--
New York	20	2.48	8.0	0	--	--	0	--	--
Pennsylvania	1,101	2.91	8.7	0	--	--	0	--	--
East North Central	5,343	3.03	9.8	5,441	0.25	4.7	0	--	--
Illinois	705	3.54	18.5	2,257	0.22	4.5	0	--	--
Indiana	2,179	2.75	8.6	76	0.19	4.4	0	--	--
Michigan	177	2.16	7.5	1,801	0.27	4.6	0	--	--
Ohio	2,208	3.25	9.0	15	0.31	4.3	0	--	--
Wisconsin	75	2.49	8.5	1,293	0.26	5.0	0	--	--
West North Central	87	3.18	9.8	5,797	0.26	4.8	1,494	0.88	9.3
Iowa	22	3.55	8.0	872	0.25	4.8	0	--	--
Kansas	15	3.10	13.4	574	0.34	4.9	0	--	--
Minnesota	0	--	--	765	0.32	5.4	0	--	--
Missouri	50	3.05	9.5	2,685	0.23	4.6	0	--	--
Nebraska	0	--	--	846	0.26	5.1	0	--	--
North Dakota	0	--	--	11	0.31	5.3	1,494	0.88	9.3
South Dakota	0	--	--	43	0.35	5.1	0	--	--
South Atlantic	6,020	2.32	9.9	810	0.33	4.9	0	--	--
Delaware	35	2.47	7.7	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,109	2.55	8.1	0	--	--	0	--	--
Georgia	635	2.47	8.3	795	0.33	4.9	0	--	--
Maryland	210	2.30	11.2	15	0.20	4.3	0	--	--
North Carolina	1,102	1.75	9.6	0	--	--	0	--	--
South Carolina	618	1.61	8.5	0	--	--	0	--	--
Virginia	456	1.01	15.5	0	--	--	0	--	--
West Virginia	1,854	3.00	10.6	0	--	--	0	--	--
East South Central	2,710	2.64	9.4	1,768	0.27	4.9	226	0.45	14.3
Alabama	437	1.74	10.4	753	0.29	5.1	0	--	--
Kentucky	1,917	3.00	9.3	813	0.25	4.8	0	--	--
Mississippi	39	3.02	8.7	0	--	--	226	0.45	14.3
Tennessee	318	1.70	8.1	202	0.25	4.6	0	--	--
West South Central	57	1.73	19.0	6,209	0.28	5.1	2,389	1.16	18.0
Arkansas	7	0.63	8.3	730	0.25	4.8	0	--	--
Louisiana	13	3.32	10.0	407	0.25	4.7	222	0.56	15.9
Oklahoma	37	1.38	24.6	472	0.22	4.7	0	--	--
Texas	0	--	--	4,599	0.29	5.2	2,167	1.23	18.3
Mountain	1,948	0.65	14.3	4,349	0.50	8.5	17	0.51	8.5
Arizona	482	0.65	10.4	881	0.58	10.5	0	--	--
Colorado	215	0.52	12.3	999	0.35	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	449	0.73	10.1	17	0.51	8.5
Nevada	0	--	--	32	0.30	5.1	0	--	--
New Mexico	527	0.78	22.4	255	0.70	21.6	0	--	--
Utah	724	0.61	12.2	54	1.18	8.3	0	--	--
Wyoming	0	--	--	1,680	0.43	7.1	0	--	--
Pacific Contiguous	66	0.52	10.1	103	0.43	7.3	0	--	--
California	66	0.52	10.1	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	103	0.43	7.3	0	--	--
Pacific Noncontiguous	0	--	--	61	0.22	3.9	9	0.12	7.9
Alaska	0	--	--	0	--	--	9	0.12	7.9
Hawaii	0	--	--	61	0.22	3.9	0	--	--
U.S. Total	17,364	2.45	10.2	24,538	0.31	5.5	4,134	1.02	14.5

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, April 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	3,005	2.78	8.7	3,584	0.26	4.7	0	--	--
Illinois	191	3.19	10.6	414	0.22	4.6	0	--	--
Indiana	2,060	2.69	8.6	76	0.19	4.4	0	--	--
Michigan	139	2.28	7.7	1,801	0.27	4.6	0	--	--
Ohio	553	3.08	8.8	0	--	--	0	--	--
Wisconsin	62	2.85	7.9	1,293	0.26	5.0	0	--	--
West North Central	65	3.06	10.4	5,568	0.26	4.8	1,494	0.88	9.3
Iowa	0	--	--	757	0.26	4.8	0	--	--
Kansas	15	3.10	13.4	574	0.34	4.9	0	--	--
Minnesota	0	--	--	699	0.33	5.4	0	--	--
Missouri	50	3.05	9.5	2,685	0.23	4.6	0	--	--
Nebraska	0	--	--	799	0.26	5.1	0	--	--
North Dakota	0	--	--	11	0.31	5.3	1,494	0.88	9.3
South Dakota	0	--	--	43	0.35	5.1	0	--	--
South Atlantic	5,112	2.18	9.8	795	0.33	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,088	2.59	8.2	0	--	--	0	--	--
Georgia	628	2.48	8.3	795	0.33	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,072	1.78	9.7	0	--	--	0	--	--
South Carolina	610	1.62	8.6	0	--	--	0	--	--
Virginia	398	1.05	17.1	0	--	--	0	--	--
West Virginia	1,315	2.58	10.4	0	--	--	0	--	--
East South Central	2,628	2.70	9.4	1,768	0.27	4.9	0	--	--
Alabama	437	1.74	10.4	753	0.29	5.1	0	--	--
Kentucky	1,917	3.00	9.3	813	0.25	4.8	0	--	--
Mississippi	39	3.02	8.7	0	--	--	0	--	--
Tennessee	235	2.04	8.5	202	0.25	4.6	0	--	--
West South Central	13	3.32	10.0	2,758	0.26	4.9	500	1.77	20.5
Arkansas	0	--	--	714	0.25	4.8	0	--	--
Louisiana	13	3.32	10.0	113	0.22	4.4	222	0.56	15.9
Oklahoma	0	--	--	442	0.22	4.8	0	--	--
Texas	0	--	--	1,488	0.27	5.0	278	2.98	25.1
Mountain	1,948	0.65	14.3	3,823	0.47	8.4	17	0.51	8.5
Arizona	482	0.65	10.4	881	0.58	10.5	0	--	--
Colorado	215	0.52	12.3	999	0.35	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	17	0.51	8.5
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	527	0.78	22.4	255	0.70	21.6	0	--	--
Utah	724	0.61	12.2	54	1.18	8.3	0	--	--
Wyoming	0	--	--	1,635	0.43	7.1	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.12	7.9
Alaska	0	--	--	0	--	--	9	0.12	7.9
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,770	2.22	10.1	18,297	0.31	5.6	2,020	1.07	11.8

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 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, April 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	4	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	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	1,109	2.90	8.7	0	--	--	0	--	--
New Jersey	8	1.48	7.4	0	--	--	0	--	--
New York	11	2.53	8.2	0	--	--	0	--	--
Pennsylvania	1,090	2.92	8.7	0	--	--	0	--	--
East North Central	2,222	3.35	11.4	1,808	0.21	4.5	0	--	--
Illinois	411	3.71	26.3	1,793	0.21	4.5	0	--	--
Indiana	119	3.64	9.2	0	--	--	0	--	--
Michigan	37	1.65	6.7	0	--	--	0	--	--
Ohio	1,655	3.31	9.1	15	0.31	4.3	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	805	3.39	10.6	15	0.20	4.3	0	--	--
Delaware	35	2.47	7.7	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	196	2.33	10.5	15	0.20	4.3	0	--	--
North Carolina	2	0.73	5.3	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	33	0.80	6.8	0	--	--	0	--	--
West Virginia	539	4.03	11.1	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	226	0.45	14.3
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	226	0.45	14.3
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	37	1.38	24.6	3,420	0.30	5.2	1,889	1.02	17.4
Arkansas	0	--	--	16	0.20	4.2	0	--	--
Louisiana	0	--	--	294	0.27	4.8	0	--	--
Oklahoma	37	1.38	24.6	0	--	--	0	--	--
Texas	0	--	--	3,110	0.30	5.2	1,889	1.02	17.4
Mountain	0	--	--	526	0.67	9.5	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	449	0.73	10.1	0	--	--
Nevada	0	--	--	32	0.30	5.1	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.39	6.1	0	--	--
Pacific Contiguous	0	--	--	103	0.43	7.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	103	0.43	7.3	0	--	--
Pacific Noncontiguous	0	--	--	61	0.22	3.9	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	61	0.22	3.9	0	--	--
U.S. Total	4,177	3.22	10.6	5,933	0.30	5.4	2,114	0.97	17.2

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, April 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	2.96	8.1	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	2.96	8.1	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	2.96	8.1	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, April 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	20	2.22	7.7	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	8	2.41	7.7	0	--	--	0	--	--
Pennsylvania	11	2.08	7.7	0	--	--	0	--	--
East North Central	116	3.27	8.8	49	0.80	6.5	0	--	--
Illinois	103	3.65	8.5	49	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.61	8.0	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	11.5	0	--	--	0	--	--
West North Central	22	3.55	8.0	229	0.22	4.8	0	--	--
Iowa	22	3.55	8.0	116	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	66	0.24	5.5	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	47	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	103	0.95	8.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	21	0.68	7.0	0	--	--	0	--	--
Georgia	7	1.26	10.0	0	--	--	0	--	--
Maryland	14	1.88	22.5	0	--	--	0	--	--
North Carolina	28	0.92	6.9	0	--	--	0	--	--
South Carolina	7	0.75	6.2	0	--	--	0	--	--
Virginia	25	0.75	7.0	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	83	0.83	7.2	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	83	0.83	7.2	0	--	--	0	--	--
West South Central	7	0.63	8.3	30	0.19	4.2	0	--	--
Arkansas	7	0.63	8.3	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	30	0.19	4.2	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	66	0.52	10.1	0	--	--	0	--	--
California	66	0.52	10.1	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	1.63	8.6	308	0.31	5.0	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 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - April 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
Year to Date					
2015	468,969	429,066	316,556	2,671	1,217,262
2016	434,814	419,391	301,509	2,512	1,158,225
2017	424,128	417,259	299,978	2,536	1,143,901
Rolling 12 Months Ending in April					
2016	1,369,941	1,351,076	971,461	7,477	3,699,956
2017	1,396,708	1,357,485	934,738	7,523	3,696,455

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 - April 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
Year to Date					
2015	57,709	44,972	21,350	273	124,305
2016	53,266	42,453	19,338	237	115,295
2017	53,559	43,324	19,901	239	117,023
Rolling 12 Months Ending in April					
2016	173,180	142,263	66,154	735	382,332
2017	176,879	141,808	63,764	713	383,163

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 - April 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
Year to Date					
2015	12.31	10.48	6.74	10.22	10.21
2016	12.25	10.12	6.41	9.44	9.95
2017	12.63	10.38	6.63	9.43	10.23
Rolling 12 Months Ending in April					
2016	12.64	10.53	6.81	9.82	10.33
2017	12.66	10.45	6.82	9.48	10.37

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 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, April 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	3,452	3,323	4,005	3,993	1,289	1,374	39	45	8,785	8,736
Connecticut	953	900	971	993	249	262	8	15	2,181	2,170
Maine	370	358	298	299	203	243	0	0	871	900
Massachusetts	1,406	1,364	1,961	1,916	525	542	28	28	3,920	3,850
New Hampshire	362	340	356	350	147	157	0	0	864	848
Rhode Island	209	210	267	280	57	62	2	2	536	554
Vermont	152	151	153	155	108	108	0	0	413	414
Middle Atlantic	8,743	8,690	11,745	11,639	5,837	5,604	312	298	26,637	26,231
New Jersey	1,678	1,693	2,816	2,790	539	536	26	24	5,059	5,044
New York	3,441	3,374	5,627	5,645	1,451	1,408	226	213	10,745	10,640
Pennsylvania	3,624	3,623	3,302	3,204	3,847	3,660	59	61	10,832	10,547
East North Central	11,559	11,986	13,562	13,870	14,600	14,804	45	43	39,767	40,703
Illinois	2,662	2,812	3,585	3,828	3,334	3,327	40	37	9,622	10,004
Indiana	1,938	1,999	1,749	1,764	3,227	3,298	2	2	6,916	7,063
Michigan	2,214	2,304	2,995	2,967	2,329	2,500	0	0	7,539	7,772
Ohio	3,223	3,346	3,464	3,522	3,779	3,802	4	4	10,471	10,674
Wisconsin	1,522	1,525	1,768	1,788	1,930	1,877	0	0	5,220	5,191
West North Central	6,560	6,371	7,644	7,563	6,914	6,583	4	3	21,121	20,520
Iowa	927	918	889	894	1,773	1,727	0	0	3,589	3,540
Kansas	764	720	1,182	1,149	872	857	0	0	2,818	2,725
Minnesota	1,528	1,481	1,707	1,749	1,679	1,524	2	2	4,916	4,756
Missouri	2,009	1,960	2,293	2,240	939	914	2	2	5,242	5,116
Nebraska	657	616	743	702	794	768	0	0	2,194	2,086
North Dakota	341	348	479	463	639	586	0	0	1,459	1,397
South Dakota	334	328	350	365	218	206	0	0	903	900
South Atlantic	23,219	21,986	23,905	23,341	11,253	11,405	93	111	58,471	56,842
Delaware	326	301	319	303	150	149	0	0	796	753
District of Columbia	165	160	596	564	15	16	26	29	802	769
Florida	8,745	8,230	7,610	7,369	1,391	1,347	8	8	17,754	16,954
Georgia	3,667	3,350	3,635	3,541	2,591	2,586	14	13	9,907	9,491
Maryland	1,667	1,712	2,099	2,103	326	298	33	45	4,124	4,159
North Carolina	3,350	3,243	3,721	3,603	2,101	2,242	0	1	9,172	9,088
South Carolina	1,839	1,684	1,623	1,632	2,305	2,194	0	0	5,767	5,510
Virginia	2,776	2,598	3,748	3,648	1,325	1,499	13	15	7,861	7,760
West Virginia	683	708	555	579	1,049	1,072	0	0	2,287	2,359
East South Central	7,428	7,032	6,784	6,693	8,072	7,917	0	0	22,284	21,642
Alabama	2,045	1,855	1,751	1,701	2,700	2,615	0	0	6,496	6,171
Kentucky	1,577	1,610	1,409	1,416	2,241	2,250	0	0	5,228	5,276
Mississippi	1,168	1,050	1,050	999	1,336	1,371	0	0	3,554	3,419
Tennessee	2,638	2,517	2,574	2,577	1,794	1,682	0	0	7,006	6,776
West South Central	13,169	12,522	14,103	14,286	14,284	14,341	16	15	41,571	41,164
Arkansas	1,072	1,041	879	877	1,361	1,278	0	0	3,313	3,195
Louisiana	1,948	1,762	1,868	1,823	2,963	2,840	1	1	6,781	6,426
Oklahoma	1,287	1,267	1,494	1,486	1,457	1,377	0	0	4,238	4,130
Texas	8,861	8,452	9,862	10,100	8,503	8,847	14	14	27,240	27,413
Mountain	6,306	6,024	7,313	7,139	6,392	6,563	11	11	20,022	19,736
Arizona	2,121	1,962	2,245	2,218	1,157	1,200	0	0	5,523	5,380
Colorado	1,264	1,278	1,551	1,510	1,249	1,205	5	5	4,069	3,998
Idaho	599	552	468	471	525	573	0	0	1,592	1,596
Montana	374	368	393	382	348	349	0	0	1,116	1,099
Nevada	729	646	787	716	961	1,133	1	1	2,478	2,495
New Mexico	411	419	696	675	593	599	0	0	1,700	1,692
Utah	599	587	886	881	775	704	5	5	2,265	2,177
Wyoming	208	212	287	285	783	800	0	0	1,279	1,298
Pacific Contiguous	9,980	9,816	12,026	12,469	6,576	6,808	71	69	28,652	29,161
California	5,656	5,916	8,432	8,992	3,720	3,964	68	66	17,876	18,938
Oregon	1,457	1,329	1,282	1,219	945	894	2	2	3,687	3,444
Washington	2,867	2,571	2,312	2,259	1,911	1,950	0	0	7,090	6,780
Pacific Noncontiguous	364	357	480	472	407	404	0	0	1,251	1,232
Alaska	166	156	227	222	111	104	0	0	504	482
Hawaii	198	201	253	250	296	300	0	0	746	750
U.S. Total	90,780	88,107	101,566	101,464	75,624	75,801	590	595	268,560	265,967

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
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Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	15,564	15,388	16,615	16,812	5,243	5,506	191	193	37,613	37,898
Connecticut	4,240	4,209	3,936	4,071	976	1,029	57	60	9,209	9,369
Maine	1,680	1,617	1,318	1,293	838	935	0	0	3,836	3,845
Massachusetts	6,412	6,344	8,145	8,177	2,115	2,185	124	123	16,796	16,829
New Hampshire	1,562	1,533	1,440	1,468	619	638	0	0	3,621	3,639
Rhode Island	955	962	1,135	1,152	241	250	10	9	2,341	2,373
Vermont	716	723	641	651	455	469	0	0	1,811	1,843
Middle Atlantic	41,894	42,120	49,836	50,047	23,074	23,103	1,330	1,283	116,134	116,553
New Jersey	8,069	8,146	11,959	11,982	2,308	2,215	105	104	22,440	22,447
New York	15,690	15,654	23,890	23,965	5,333	5,583	949	927	45,861	46,129
Pennsylvania	18,135	18,320	13,988	14,099	15,433	15,305	276	252	47,832	47,977
East North Central	57,220	59,472	57,696	58,302	58,945	60,487	189	200	174,050	178,460
Illinois	13,234	13,838	15,723	16,097	13,378	13,532	164	174	42,500	43,640
Indiana	9,957	10,677	7,390	7,523	13,071	14,099	7	7	30,424	32,307
Michigan	10,631	10,741	12,277	12,210	9,453	9,855	1	2	32,363	32,807
Ohio	16,226	17,071	14,681	14,847	15,368	15,390	17	17	46,291	47,325
Wisconsin	7,172	7,144	7,625	7,625	7,675	7,611	0	0	22,472	22,380
West North Central	33,351	33,446	32,130	32,255	27,457	26,855	17	16	92,954	92,572
Iowa	4,724	4,712	3,920	3,940	7,108	6,837	0	0	15,752	15,488
Kansas	3,675	3,761	4,663	4,695	3,438	3,405	0	0	11,777	11,860
Minnesota	7,506	7,305	7,385	7,445	6,657	6,348	9	8	21,557	21,107
Missouri	10,410	10,920	9,377	9,506	3,678	3,927	8	8	23,473	24,361
Nebraska	3,368	3,260	3,009	3,006	3,194	3,070	0	0	9,570	9,336
North Dakota	1,920	1,823	2,172	2,085	2,514	2,422	0	0	6,606	6,330
South Dakota	1,749	1,665	1,602	1,578	869	846	0	0	4,220	4,089
South Atlantic	103,449	110,118	94,493	95,443	43,885	44,336	423	448	242,249	250,346
Delaware	1,550	1,563	1,300	1,349	640	604	0	0	3,489	3,517
District of Columbia	753	775	2,488	2,715	55	63	103	108	3,398	3,661
Florida	32,950	33,911	28,444	28,106	5,283	5,247	30	30	66,707	67,295
Georgia	15,939	17,135	14,105	14,474	10,087	10,280	56	57	40,187	41,947
Maryland	8,594	9,300	8,999	9,265	1,190	1,186	176	187	18,958	19,938
North Carolina	16,969	18,648	14,569	14,809	8,338	8,473	1	2	39,877	41,932
South Carolina	8,459	9,346	6,406	6,653	8,679	8,563	0	0	23,544	24,562
Virginia	14,409	15,160	15,763	15,534	5,343	5,653	58	63	35,573	36,410
West Virginia	3,827	4,280	2,418	2,538	4,270	4,266	0	0	10,515	11,084
East South Central	34,909	37,741	27,255	27,729	31,803	31,407	0	0	93,967	96,877
Alabama	8,929	9,701	6,799	6,917	10,726	10,558	0	0	26,453	27,175
Kentucky	8,043	8,818	5,861	6,014	8,872	8,951	0	0	22,776	23,782
Mississippi	5,185	5,492	4,107	4,076	5,335	5,350	0	0	14,627	14,918
Tennessee	12,752	13,731	10,489	10,722	6,869	6,549	0	0	30,110	31,001
West South Central	58,287	60,373	57,017	57,301	57,141	55,818	61	60	172,506	173,552
Arkansas	5,349	5,577	3,552	3,572	5,272	5,041	0	0	14,172	14,190
Louisiana	8,334	8,733	7,382	7,376	11,068	10,950	4	4	26,788	27,063
Oklahoma	6,326	6,553	5,935	5,910	5,549	5,429	0	0	17,810	17,892
Texas	38,278	39,510	40,149	40,443	35,252	34,398	56	56	113,735	114,407
Mountain	28,328	27,848	29,469	29,021	25,278	26,002	46	44	83,122	82,916
Arizona	8,403	8,303	8,597	8,650	4,417	4,828	2	2	21,419	21,782
Colorado	5,835	5,887	6,406	6,406	4,844	4,840	22	22	17,107	17,155
Idaho	3,185	2,912	2,071	2,017	2,039	2,027	0	0	7,295	6,956
Montana	2,019	1,804	1,696	1,631	1,395	1,377	0	0	5,111	4,812
Nevada	3,113	3,066	3,192	2,792	3,896	4,342	3	3	10,204	10,202
New Mexico	1,990	2,084	2,700	2,686	2,316	2,357	0	0	7,005	7,127
Utah	2,711	2,738	3,546	3,591	3,026	2,937	20	18	9,303	9,284
Wyoming	1,071	1,055	1,261	1,249	3,345	3,295	0	0	5,677	5,598
Pacific Contiguous	49,510	46,769	50,815	50,548	25,551	26,371	280	268	126,155	123,956
California	26,974	26,662	35,171	35,549	14,081	14,870	269	258	76,496	77,339
Oregon	7,597	6,812	5,407	5,230	3,662	3,544	9	8	16,674	15,594
Washington	14,939	13,295	10,236	9,768	7,808	7,957	2	2	32,985	31,023
Pacific Noncontiguous	1,615	1,539	1,933	1,933	1,602	1,623	0	0	5,151	5,095
Alaska	795	728	968	946	461	453	0	0	2,224	2,127
Hawaii	820	811	965	987	1,141	1,171	0	0	2,926	2,969
U.S. Total	424,128	434,814	417,259	419,391	299,978	301,509	2,536	2,512	1,143,901	1,158,225

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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. OPTIONS NOCENTER

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	679	659	599	606	158	164	3	4	1,439	1,432
Connecticut	192	190	153	156	32	34	1	2	379	382
Maine	59	56	36	36	19	21	0	0	115	113
Massachusetts	291	282	294	298	70	70	2	2	657	652
New Hampshire	69	64	51	51	18	19	0	0	138	134
Rhode Island	41	41	41	42	8	8	0	0	91	92
Vermont	27	26	22	22	11	10	0	0	60	59
Middle Atlantic	1,384	1,366	1,422	1,419	404	388	34	32	3,243	3,205
New Jersey	264	263	345	335	53	52	2	2	665	652
New York	596	587	775	778	86	84	27	25	1,483	1,474
Pennsylvania	524	517	301	305	265	253	4	5	1,095	1,079
East North Central	1,564	1,588	1,377	1,357	1,015	1,007	3	3	3,959	3,956
Illinois	351	360	325	332	210	208	2	3	889	903
Indiana	244	237	182	172	241	235	0	0	667	644
Michigan	341	344	324	309	170	168	0	0	834	822
Ohio	404	427	355	350	246	257	0	0	1,005	1,034
Wisconsin	224	220	192	194	148	138	0	0	565	553
West North Central	779	734	723	689	484	429	0	0	1,987	1,852
Iowa	113	107	80	78	95	87	0	0	288	272
Kansas	104	97	124	118	66	63	0	0	294	278
Minnesota	199	187	181	171	129	108	0	0	509	466
Missouri	219	203	196	184	61	57	0	0	476	444
Nebraska	70	66	65	61	60	57	0	0	195	183
North Dakota	35	37	44	43	56	41	0	0	135	121
South Dakota	39	37	34	34	17	15	0	0	90	87
South Atlantic	2,764	2,582	2,251	2,147	712	704	7	9	5,735	5,441
Delaware	44	42	32	31	12	12	0	0	88	85
District of Columbia	22	22	71	67	1	1	3	3	97	93
Florida	1,013	911	726	663	107	101	1	1	1,847	1,677
Georgia	421	374	365	336	147	134	1	1	934	845
Maryland	239	246	232	231	28	24	2	4	501	505
North Carolina	383	380	305	306	125	134	0	0	813	820
South Carolina	242	215	170	160	136	127	0	0	547	501
Virginia	319	312	295	298	85	101	1	1	700	712
West Virginia	81	80	55	55	71	70	0	0	207	205
East South Central	847	770	712	664	473	440	0	0	2,032	1,874
Alabama	260	230	200	188	163	155	0	0	623	573
Kentucky	170	167	137	134	124	120	0	0	431	421
Mississippi	136	116	110	94	81	74	0	0	327	284
Tennessee	282	257	264	248	104	91	0	0	650	596
West South Central	1,444	1,359	1,191	1,100	765	692	1	1	3,401	3,152
Arkansas	111	104	75	70	77	67	0	0	263	242
Louisiana	182	161	166	157	150	137	0	0	498	456
Oklahoma	152	138	120	102	76	61	0	0	348	301
Texas	998	954	830	771	462	427	1	1	2,292	2,153
Mountain	745	699	693	662	384	389	1	1	1,824	1,751
Arizona	265	242	230	224	70	68	0	0	565	534
Colorado	151	151	149	143	88	83	1	1	389	378
Idaho	58	54	37	36	31	35	0	0	127	126
Montana	41	41	40	39	16	16	0	0	97	96
Nevada	90	77	63	58	49	56	0	0	202	191
New Mexico	52	47	69	61	36	33	0	0	157	141
Utah	64	63	75	75	40	42	1	0	180	180
Wyoming	24	23	29	27	53	56	0	0	106	106
Pacific Contiguous	1,223	1,113	1,483	1,533	513	561	6	6	3,224	3,213
California	797	734	1,176	1,237	368	423	6	6	2,346	2,400
Oregon	156	140	114	108	55	53	0	0	325	300
Washington	270	240	193	188	90	86	0	0	554	513
Pacific Noncontiguous	96	86	113	99	84	75	0	0	293	260
Alaska	36	32	46	41	18	17	0	0	99	90
Hawaii	60	54	67	58	67	58	0	0	194	170
U.S. Total	11,525	10,955	10,564	10,275	4,992	4,849	56	56	27,137	26,136

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Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2017 and 2016 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	2,989	2,961	2,506	2,571	649	669	17	17	6,160	6,218
Connecticut	840	866	623	645	129	136	6	7	1,598	1,654
Maine	268	249	164	158	79	84	0	0	511	491
Massachusetts	1,280	1,260	1,240	1,279	284	287	9	9	2,812	2,835
New Hampshire	294	281	210	214	77	80	0	0	581	576
Rhode Island	182	182	176	180	34	34	2	2	395	398
Vermont	124	123	93	94	46	47	0	0	263	264
Middle Atlantic	6,539	6,476	6,018	6,033	1,598	1,621	143	139	14,299	14,269
New Jersey	1,268	1,264	1,445	1,436	228	220	9	9	2,950	2,929
New York	2,711	2,641	3,300	3,257	303	329	114	109	6,427	6,336
Pennsylvania	2,561	2,571	1,274	1,340	1,067	1,072	20	20	4,922	5,004
East North Central	7,454	7,529	5,798	5,645	4,129	4,084	12	14	17,394	17,272
Illinois	1,653	1,675	1,394	1,376	861	852	10	12	3,918	3,915
Indiana	1,177	1,165	760	716	967	945	1	1	2,905	2,826
Michigan	1,632	1,587	1,349	1,270	694	670	0	0	3,675	3,526
Ohio	1,962	2,096	1,466	1,460	1,020	1,045	1	1	4,448	4,602
Wisconsin	1,030	1,007	830	823	587	573	0	0	2,447	2,402
West North Central	3,709	3,606	2,955	2,877	1,898	1,777	1	1	8,565	8,261
Iowa	537	521	341	333	384	361	0	0	1,262	1,214
Kansas	472	475	476	479	256	253	0	0	1,204	1,207
Minnesota	945	891	754	711	503	446	1	1	2,204	2,050
Missouri	1,046	1,047	783	769	234	235	1	1	2,064	2,052
Nebraska	337	321	259	255	238	230	0	0	835	807
North Dakota	182	172	194	185	216	190	0	0	592	547
South Dakota	190	178	149	144	67	63	0	0	405	385
South Atlantic	12,171	12,633	8,941	8,903	2,784	2,728	33	35	23,929	24,299
Delaware	208	208	134	140	51	49	0	0	392	397
District of Columbia	96	102	298	323	5	6	10	10	409	440
Florida	3,854	3,829	2,739	2,621	418	404	3	3	7,014	6,856
Georgia	1,815	1,841	1,412	1,372	563	531	3	3	3,793	3,747
Maryland	1,226	1,317	1,001	1,016	103	95	14	15	2,344	2,442
North Carolina	1,861	2,054	1,232	1,269	497	497	0	0	3,591	3,821
South Carolina	1,071	1,140	665	659	511	486	0	0	2,247	2,285
Virginia	1,599	1,678	1,223	1,266	347	382	4	5	3,173	3,331
West Virginia	441	464	237	238	289	277	0	0	967	979
East South Central	3,896	3,949	2,867	2,752	1,876	1,721	0	0	8,638	8,423
Alabama	1,126	1,131	792	756	644	586	0	0	2,562	2,473
Kentucky	844	876	564	559	497	471	0	0	1,905	1,906
Mississippi	581	583	426	398	325	302	0	0	1,332	1,283
Tennessee	1,345	1,359	1,084	1,040	410	361	0	0	2,839	2,760
West South Central	6,204	6,304	4,736	4,454	3,023	2,791	5	3	13,969	13,552
Arkansas	521	521	291	283	294	276	0	0	1,105	1,080
Louisiana	744	765	642	631	557	539	0	0	1,945	1,936
Oklahoma	660	627	464	404	287	242	0	0	1,411	1,273
Texas	4,279	4,390	3,339	3,135	1,886	1,734	4	3	9,508	9,263
Mountain	3,229	3,109	2,716	2,636	1,533	1,522	5	4	7,482	7,271
Arizona	990	960	848	850	261	262	0	0	2,099	2,072
Colorado	688	669	605	575	344	326	2	2	1,639	1,573
Idaho	306	282	159	153	119	120	0	0	584	556
Montana	216	191	170	162	67	65	0	0	453	419
Nevada	372	365	252	231	196	216	0	0	820	812
New Mexico	249	237	266	250	140	131	0	0	655	618
Utah	291	291	296	298	172	175	2	2	761	766
Wyoming	117	113	120	115	233	227	0	0	470	455
Pacific Contiguous	6,960	6,334	6,343	6,180	2,076	2,124	23	23	15,403	14,661
California	4,773	4,407	5,003	4,899	1,498	1,560	22	22	11,296	10,889
Oregon	798	705	478	460	221	209	1	1	1,498	1,375
Washington	1,388	1,222	863	820	357	355	0	0	2,608	2,397
Pacific Noncontiguous	407	364	442	404	335	300	0	0	1,183	1,068
Alaska	167	145	187	168	78	67	0	0	432	380
Hawaii	240	219	255	236	257	233	0	0	752	688
U.S. Total	53,559	53,266	43,324	42,453	19,901	19,338	239	237	117,023	115,295

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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. OPTIONS NOCENTER

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	19.67	19.82	14.96	15.17	12.25	11.91	7.98	8.65	16.38	16.39
Connecticut	20.12	21.15	15.81	15.72	13.00	12.91	12.32	12.22	17.36	17.61
Maine	16.05	15.65	12.18	12.00	9.34	8.83	--	--	13.16	12.60
Massachusetts	20.70	20.65	15.02	15.56	13.27	12.96	5.63	5.94	16.76	16.93
New Hampshire	19.01	18.67	14.48	14.49	12.17	12.35	--	--	15.99	15.77
Rhode Island	19.64	19.43	15.37	15.13	14.38	13.44	19.70	18.28	16.95	16.58
Vermont	17.72	17.52	14.72	14.49	9.94	9.63	--	--	14.58	14.33
Middle Atlantic	15.83	15.72	12.10	12.19	6.92	6.93	10.89	10.69	12.17	12.22
New Jersey	15.75	15.52	12.24	12.02	9.91	9.67	9.47	8.30	13.14	12.93
New York	17.31	17.39	13.78	13.79	5.90	5.96	11.92	11.80	13.81	13.85
Pennsylvania	14.46	14.26	9.13	9.52	6.88	6.90	7.57	7.75	10.11	10.23
East North Central	13.53	13.25	10.16	9.78	6.95	6.80	6.40	7.34	9.96	9.72
Illinois	13.20	12.80	9.07	8.66	6.31	6.27	6.06	7.16	9.24	9.02
Indiana	12.57	11.84	10.41	9.75	7.47	7.13	11.96	9.67	9.64	9.12
Michigan	15.40	14.95	10.81	10.42	7.28	6.72	12.65	11.45	11.07	10.57
Ohio	12.52	12.76	10.24	9.94	6.51	6.76	7.33	7.72	9.59	9.69
Wisconsin	14.75	14.44	10.85	10.86	7.69	7.38	15.29	15.29	10.82	10.65
West North Central	11.88	11.52	9.46	9.11	7.00	6.51	8.22	8.37	9.41	9.02
Iowa	12.19	11.70	8.96	8.67	5.38	5.04	--	--	8.02	7.68
Kansas	13.58	13.45	10.53	10.28	7.60	7.40	--	--	10.45	10.21
Minnesota	13.03	12.62	10.59	9.78	7.67	7.09	9.28	9.94	10.35	9.80
Missouri	10.90	10.36	8.55	8.22	6.46	6.20	7.17	6.73	9.08	8.68
Nebraska	10.69	10.65	8.72	8.66	7.60	7.41	--	--	8.90	8.79
North Dakota	10.39	10.52	9.12	9.31	8.71	7.06	--	--	9.24	8.67
South Dakota	11.66	11.39	9.64	9.32	7.67	7.41	--	--	9.91	9.64
South Atlantic	11.90	11.74	9.42	9.20	6.33	6.18	7.80	7.95	9.81	9.57
Delaware	13.62	13.89	9.95	10.15	8.07	8.03	--	--	11.10	11.23
District of Columbia	13.10	13.48	11.93	11.88	8.47	9.09	9.63	9.73	12.03	12.07
Florida	11.58	11.07	9.55	9.00	7.71	7.53	8.51	8.16	10.40	9.89
Georgia	11.49	11.16	10.03	9.49	5.69	5.19	5.14	4.54	9.43	8.90
Maryland	14.33	14.37	11.07	11.00	8.45	7.91	7.15	7.84	12.15	12.14
North Carolina	11.43	11.72	8.20	8.49	5.95	5.99	8.54	7.88	8.87	9.03
South Carolina	13.13	12.77	10.48	9.78	5.89	5.77	--	--	9.49	9.10
Virginia	11.50	12.00	7.86	8.16	6.41	6.73	8.06	7.83	8.90	9.17
West Virginia	11.87	11.29	9.94	9.49	6.78	6.53	--	--	9.07	8.69
East South Central	11.40	10.95	10.50	9.92	5.86	5.56	--	--	9.12	8.66
Alabama	12.71	12.42	11.44	11.04	6.04	5.91	--	--	9.59	9.28
Kentucky	10.76	10.36	9.76	9.45	5.54	5.35	--	--	8.25	7.98
Mississippi	11.64	11.01	10.47	9.38	6.09	5.43	--	--	9.21	8.30
Tennessee	10.68	10.22	10.27	9.64	5.80	5.39	--	--	9.28	8.80
West South Central	10.97	10.85	8.44	7.70	5.36	4.83	8.32	5.68	8.18	7.66
Arkansas	10.40	10.04	8.50	7.99	5.64	5.27	11.04	8.68	7.94	7.57
Louisiana	9.35	9.17	8.87	8.60	5.07	4.83	9.85	9.68	7.35	7.09
Oklahoma	11.83	10.93	8.04	6.85	5.22	4.43	--	--	8.22	7.29
Texas	11.27	11.29	8.42	7.64	5.43	4.82	8.20	5.41	8.41	7.85
Mountain	11.82	11.60	9.47	9.28	6.02	5.93	9.77	9.50	9.11	8.87
Arizona	12.49	12.36	10.23	10.08	6.06	5.63	8.25	8.07	10.23	9.92
Colorado	11.95	11.78	9.64	9.48	7.08	6.92	9.79	9.53	9.57	9.45
Idaho	9.76	9.87	7.99	7.69	5.89	6.10	--	--	7.96	7.87
Montana	10.93	11.03	10.22	10.27	4.64	4.48	--	--	8.72	8.69
Nevada	12.32	11.89	8.02	8.04	5.14	4.98	8.11	7.24	8.17	7.65
New Mexico	12.63	11.34	9.97	9.00	6.07	5.55	--	--	9.25	8.36
Utah	10.74	10.71	8.46	8.49	5.17	5.99	10.10	9.96	7.94	8.28
Wyoming	11.48	10.99	9.94	9.42	6.81	6.96	--	--	8.27	8.16
Pacific Contiguous	12.25	11.34	12.33	12.29	7.79	8.25	8.18	8.90	11.25	11.02
California	14.09	12.40	13.94	13.76	9.89	10.66	8.14	8.88	13.12	12.67
Oregon	10.69	10.50	8.89	8.87	5.78	5.89	9.42	9.31	8.81	8.73
Washington	9.43	9.33	8.37	8.30	4.71	4.41	9.00	9.04	7.81	7.57
Pacific Noncontiguous	26.27	24.21	23.57	20.97	20.71	18.49	--	--	23.42	21.10
Alaska	21.42	20.71	20.35	18.34	15.84	16.11	--	--	19.71	18.63
Hawaii	30.33	26.93	26.46	23.31	22.54	19.31	--	--	25.93	22.68
U.S. Total	12.70	12.43	10.40	10.13	6.60	6.40	9.44	9.41	10.10	9.83

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. OPTIONS NOCENTER

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD	April 2017 YTD	April 2016 YTD
New England	19.20	19.24	15.08	15.29	12.38	12.14	8.80	8.99	16.38	16.41
Connecticut	19.81	20.58	15.84	15.84	13.19	13.21	10.93	11.65	17.36	17.65
Maine	15.98	15.38	12.42	12.25	9.47	9.00	--	--	13.33	12.78
Massachusetts	19.96	19.86	15.22	15.65	13.41	13.14	7.01	6.98	16.74	16.85
New Hampshire	18.82	18.36	14.59	14.60	12.43	12.54	--	--	16.04	15.82
Rhode Island	19.08	18.88	15.53	15.66	14.27	13.71	19.24	18.25	16.86	16.77
Vermont	17.39	17.00	14.47	14.36	10.12	10.05	--	--	14.53	14.30
Middle Atlantic	15.61	15.38	12.08	12.05	6.93	7.02	10.75	10.80	12.31	12.24
New Jersey	15.71	15.52	12.08	11.98	9.88	9.94	8.94	8.68	13.15	13.05
New York	17.28	16.87	13.81	13.59	5.68	5.89	11.97	11.80	14.01	13.74
Pennsylvania	14.12	14.04	9.11	9.50	6.92	7.01	7.25	8.00	10.29	10.43
East North Central	13.03	12.66	10.05	9.68	7.00	6.75	6.59	6.99	9.99	9.68
Illinois	12.49	12.10	8.86	8.55	6.44	6.30	6.24	6.78	9.22	8.97
Indiana	11.82	10.91	10.28	9.52	7.40	6.70	11.52	9.72	9.55	8.75
Michigan	15.35	14.77	10.99	10.40	7.34	6.79	12.26	11.40	11.36	10.75
Ohio	12.09	12.28	9.98	9.83	6.63	6.79	7.57	7.50	9.61	9.72
Wisconsin	14.36	14.09	10.89	10.79	7.64	7.52	14.26	14.53	10.89	10.73
West North Central	11.12	10.78	9.20	8.92	6.91	6.62	8.08	8.46	9.21	8.92
Iowa	11.36	11.05	8.69	8.45	5.41	5.27	--	--	8.01	7.84
Kansas	12.84	12.64	10.20	10.19	7.45	7.42	--	--	10.22	10.17
Minnesota	12.59	12.20	10.21	9.55	7.56	7.03	9.34	10.14	10.22	9.71
Missouri	10.05	9.59	8.35	8.09	6.36	5.98	6.79	6.61	8.79	8.42
Nebraska	10.01	9.86	8.62	8.49	7.46	7.49	--	--	8.72	8.64
North Dakota	9.49	9.44	8.91	8.88	8.59	7.83	--	--	8.96	8.64
South Dakota	10.86	10.70	9.28	9.13	7.66	7.40	--	--	9.60	9.41
South Atlantic	11.77	11.47	9.46	9.33	6.34	6.15	7.89	7.82	9.88	9.71
Delaware	13.39	13.31	10.31	10.35	7.97	8.16	--	--	11.25	11.29
District of Columbia	12.81	13.10	12.00	11.88	8.44	9.17	9.54	9.40	12.04	12.02
Florida	11.70	11.29	9.63	9.32	7.91	7.71	8.51	8.53	10.51	10.19
Georgia	11.39	10.75	10.01	9.48	5.58	5.17	4.95	4.42	9.44	8.93
Maryland	14.27	14.16	11.12	10.97	8.64	7.99	7.79	7.82	12.36	12.25
North Carolina	10.97	11.02	8.46	8.57	5.96	5.87	8.93	7.92	9.00	9.11
South Carolina	12.66	12.20	10.39	9.91	5.89	5.68	--	--	9.54	9.30
Virginia	11.09	11.07	7.76	8.15	6.50	6.76	7.80	7.87	8.92	9.15
West Virginia	11.53	10.85	9.78	9.37	6.77	6.50	--	--	9.19	8.84
East South Central	11.16	10.46	10.52	9.93	5.90	5.48	--	--	9.19	8.69
Alabama	12.61	11.66	11.65	10.93	6.00	5.55	--	--	9.69	9.10
Kentucky	10.49	9.93	9.63	9.29	5.60	5.27	--	--	8.36	8.01
Mississippi	11.20	10.62	10.38	9.76	6.09	5.65	--	--	9.11	8.60
Tennessee	10.55	9.90	10.33	9.70	5.97	5.51	--	--	9.43	8.90
West South Central	10.64	10.44	8.31	7.77	5.29	5.00	7.81	5.64	8.10	7.81
Arkansas	9.74	9.34	8.19	7.94	5.57	5.47	11.47	8.88	7.80	7.61
Louisiana	8.93	8.77	8.70	8.56	5.04	4.92	10.02	8.80	7.26	7.15
Oklahoma	10.44	9.57	7.82	6.83	5.17	4.46	--	--	7.92	7.12
Texas	11.18	11.11	8.32	7.75	5.35	5.04	7.64	5.41	8.36	8.10
Mountain	11.40	11.16	9.22	9.08	6.06	5.85	9.80	9.38	9.00	8.77
Arizona	11.78	11.57	9.86	9.82	5.91	5.43	8.06	8.18	9.80	9.51
Colorado	11.80	11.37	9.44	8.98	7.10	6.75	9.97	9.15	9.58	9.17
Idaho	9.60	9.70	7.68	7.59	5.85	5.93	--	--	8.01	7.99
Montana	10.70	10.61	10.02	9.95	4.83	4.75	--	--	8.87	8.71
Nevada	11.95	11.89	7.89	8.29	5.03	4.98	7.84	7.67	8.04	7.96
New Mexico	12.51	11.38	9.86	9.32	6.04	5.54	--	--	9.35	8.67
Utah	10.72	10.62	8.34	8.31	5.70	5.94	10.01	10.03	8.18	8.25
Wyoming	10.88	10.69	9.56	9.22	6.97	6.89	--	--	8.28	8.13
Pacific Contiguous	14.06	13.54	12.48	12.23	8.13	8.06	8.16	8.67	12.21	11.83
California	17.70	16.53	14.22	13.78	10.64	10.49	8.12	8.64	14.77	14.08
Oregon	10.51	10.34	8.84	8.80	6.03	5.90	9.25	9.22	8.98	8.82
Washington	9.29	9.19	8.43	8.40	4.58	4.46	9.48	9.67	7.91	7.73
Pacific Noncontiguous	25.19	23.66	22.86	20.92	20.88	18.48	--	--	22.98	20.97
Alaska	21.01	19.94	19.29	17.78	16.88	14.78	--	--	19.41	17.88
Hawaii	29.24	26.99	26.45	23.93	22.49	19.91	--	--	25.69	23.18
U.S. Total	12.63	12.25	10.38	10.12	6.63	6.41	9.43	9.44	10.23	9.95

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. OPTIONS NOCENTER

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - April 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
Rolling 12 Months Ending in April					
2016	130,211,928	18,028,628	830,683	79	149,071,318
2017	131,542,814	18,195,018	811,458	84	150,549,373

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: April 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	6,337,488	6,268,403	886,069	872,449	26,885	25,932	6	6	7,250,448	7,166,790
Connecticut	1,495,988	1,488,539	153,132	152,344	4,435	4,436	3	3	1,653,558	1,645,322
Maine	709,871	684,691	98,515	95,410	3,083	2,946	0	0	811,469	783,047
Massachusetts	2,770,302	2,733,208	411,798	405,301	14,104	13,294	2	2	3,196,206	3,151,805
New Hampshire	616,371	608,684	107,226	105,715	3,247	3,220	0	0	726,844	717,619
Rhode Island	432,063	440,775	59,475	59,079	1,791	1,821	1	1	493,330	501,676
Vermont	312,893	312,506	55,923	54,600	225	215	0	0	369,041	367,321
Middle Atlantic	16,012,366	15,941,421	2,297,150	2,277,473	42,304	42,915	20	22	18,351,840	18,261,831
New Jersey	3,517,225	3,502,589	515,181	513,849	11,769	11,899	6	5	4,044,181	4,028,342
New York	7,138,965	7,106,517	1,084,835	1,068,827	7,611	7,720	8	11	8,231,419	8,183,075
Pennsylvania	5,356,176	5,332,315	697,134	694,797	22,924	23,296	6	6	6,076,240	6,050,414
East North Central	20,107,419	19,957,862	2,486,309	2,465,403	52,816	52,351	9	8	22,646,553	22,475,624
Illinois	5,278,883	5,234,143	611,253	604,597	5,736	5,476	3	3	5,895,875	5,844,219
Indiana	2,828,153	2,811,835	349,112	347,091	17,688	17,455	1	1	3,194,954	3,176,382
Michigan	4,352,923	4,314,726	548,132	541,215	NM	NM	2	1	4,906,814	4,861,839
Ohio	4,953,978	4,922,645	623,682	620,087	18,866	18,749	2	2	5,596,528	5,561,483
Wisconsin	2,693,482	2,674,513	354,130	352,413	NM	NM	1	1	3,052,382	3,031,701
West North Central	9,439,665	9,340,065	1,447,339	1,430,038	113,808	114,351	3	2	11,000,815	10,884,456
Iowa	1,379,668	1,363,530	242,233	239,290	NM	NM	0	0	1,628,743	1,609,681
Kansas	1,268,546	1,254,715	233,868	232,221	25,549	25,447	0	0	1,527,963	1,512,383
Minnesota	2,381,325	2,355,775	287,229	283,907	NM	NM	1	1	2,676,665	2,647,918
Missouri	2,786,417	2,760,589	379,228	374,272	8,488	8,364	2	1	3,174,135	3,143,226
Nebraska	849,699	839,356	159,345	157,968	53,888	54,515	0	0	1,062,932	1,051,839
North Dakota	377,029	373,506	72,986	70,663	7,897	7,887	0	0	457,912	452,056
South Dakota	396,981	392,594	72,450	71,717	NM	NM	0	0	472,465	467,353
South Atlantic	27,528,808	27,093,430	3,756,245	3,715,747	79,768	79,029	13	13	31,364,834	30,888,219
Delaware	422,457	416,816	53,565	52,814	1,196	1,125	0	0	477,218	470,755
District of Columbia	266,106	257,605	26,061	25,900	1	1	3	3	292,171	283,509
Florida	9,224,244	9,025,986	1,220,560	1,198,444	20,746	20,314	2	2	10,465,552	10,244,746
Georgia	4,312,765	4,250,628	577,027	572,442	19,441	18,873	1	1	4,909,234	4,841,944
Maryland	2,310,846	2,288,837	251,446	250,440	8,834	8,810	5	5	2,571,131	2,548,092
North Carolina	4,482,135	4,420,770	698,676	685,421	9,929	9,975	1	1	5,190,741	5,116,167
South Carolina	2,250,261	2,216,094	356,595	357,512	4,268	4,410	0	0	2,611,124	2,578,016
Virginia	3,400,817	3,355,718	428,769	430,393	3,772	3,772	1	1	3,833,359	3,789,884
West Virginia	859,177	860,976	143,546	142,381	11,581	11,749	0	0	1,014,304	1,015,106
East South Central	8,366,111	8,290,241	1,383,820	1,372,451	24,896	24,800	0	0	9,774,827	9,687,492
Alabama	2,230,027	2,214,243	367,220	365,887	8,170	8,090	0	0	2,605,417	2,588,220
Kentucky	1,981,194	1,967,511	299,126	296,757	7,733	7,787	0	0	2,288,053	2,272,055
Mississippi	1,304,119	1,292,452	237,302	235,243	7,574	7,543	0	0	1,548,995	1,535,238
Tennessee	2,850,771	2,816,035	480,172	474,564	1,419	1,380	0	0	3,332,362	3,291,979
West South Central	15,715,223	15,545,241	2,185,461	2,178,230	176,787	172,643	6	6	18,077,477	17,896,120
Arkansas	1,379,809	1,367,645	190,590	188,782	29,124	28,964	2	2	1,599,525	1,585,393
Louisiana	2,080,932	2,060,802	290,751	289,445	18,566	18,417	1	1	2,390,250	2,368,665
Oklahoma	1,763,881	1,746,304	282,519	280,375	17,989	17,988	0	0	2,064,389	2,044,667
Texas	10,490,601	10,370,490	1,421,601	1,419,628	111,108	107,274	3	3	12,023,313	11,897,395
Mountain	9,617,695	9,487,226	1,376,782	1,361,463	87,217	86,889	4	4	11,081,698	10,935,582
Arizona	2,743,530	2,704,769	318,409	315,203	6,970	6,699	1	1	3,068,910	3,026,672
Colorado	2,280,613	2,249,502	360,070	355,491	14,614	14,605	1	1	2,655,298	2,619,599
Idaho	722,648	710,193	108,156	106,761	28,239	28,089	0	0	859,043	845,043
Montana	503,874	497,416	108,439	106,926	NM	NM	0	0	618,438	610,585
Nevada	1,156,173	1,139,982	162,550	161,171	NM	3,514	1	1	1,322,143	1,304,668
New Mexico	892,289	887,203	138,535	137,710	8,642	8,570	0	0	1,039,466	1,033,483
Utah	1,046,786	1,027,867	122,230	119,993	9,488	9,495	1	1	1,178,505	1,157,356
Wyoming	271,782	270,294	58,393	58,208	9,720	9,674	0	0	339,895	338,176
Pacific Contiguous	17,960,665	17,851,277	2,244,753	2,261,234	191,225	196,914	23	22	20,396,666	20,309,447
California	13,223,400	13,183,869	1,620,263	1,652,350	139,381	143,213	15	15	14,983,059	14,979,447
Oregon	1,732,686	1,711,269	237,829	234,428	23,531	24,727	2	2	1,994,048	1,970,426
Washington	3,004,579	2,956,139	386,661	374,456	28,313	NM	6	5	3,419,559	3,359,574
Pacific Noncontiguous	717,864	712,674	114,474	114,238	NM	NM	0	0	834,481	829,073
Alaska	285,732	282,992	53,137	52,719	NM	NM	0	0	340,233	337,079
Hawaii	432,132	429,682	61,337	61,519	779	793	0	0	494,248	491,994
U.S. Total	131,803,304	130,487,840	18,178,402	18,048,726	797,849	797,985	84	83	150,779,639	149,334,634

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

Table 6.1. Electric Generating Summer Capacity Changes (MW), March 2017 to April 2017

		As of End of March 2017	Activity During April 2017 as Reported to EIA		As of End of April 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	83,028.2	161.9	75.3	83,114.8	86.6	1,832.6	9,521.9	163.0	6,009.4	0.0	30.0	163.0	5,979.4	83,277.8	89,094.2
..... 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	83,057.5	161.9	75.3	83,144.1	86.6	1,832.6	9,551.2	163.0	6,009.4	0.0	30.0	163.0	5,979.4	83,307.1	89,123.5
..... Solar Photovoltaic	Utility Scale Facilities	20,765.0	630.3	44.6	21,350.7	585.7	1,580.4	8,227.1	270.4	4,569.9	0.0	0.0	270.4	4,569.9	21,621.1	25,920.6
..... 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	22,522.9	630.3	44.6	23,108.6	585.7	1,580.4	8,227.1	270.4	4,569.9	0.0	0.0	270.4	4,569.9	23,379.0	27,678.5
..... Conventional Hydroelectric	Utility Scale Facilities	79,870.1	170.3	78.8	79,961.6	91.5	-23.8	86.8	0.0	313.6	0.0	213.0	0.0	100.6	79,961.6	80,062.2
..... Wood/Wood Waste Biomass	Utility Scale Facilities	9,065.2	3.1	17.5	9,050.8	-14.4	107.5	98.5	1.0	66.0	0.0	0.0	1.0	66.0	9,051.8	9,116.8
..... Landfill Gas	Utility Scale Facilities	2,093.5	0.0	0.0	2,093.5	0.0	-23.0	-25.5	4.0	14.2	0.0	2.3	4.0	11.9	2,097.5	2,105.4
..... Municipal Solid Waste	Utility Scale Facilities	2,247.3	4.3	0.4	2,251.2	3.9	4.1	4.1	0.0	0.0	1.6	13.6	-1.6	-13.6	2,249.6	2,237.6
..... Other Waste Biomass	Utility Scale Facilities	769.2	22.0	0.8	790.4	21.2	19.4	-20.3	10.0	71.4	0.0	0.0	10.0	71.4	800.4	861.8
..... Biomass Sources Subtotal	Utility Scale Facilities	14,175.2	29.4	18.7	14,185.9	10.7	108.0	56.8	15.0	151.6	1.6	15.9	13.4	135.7	14,199.3	14,321.6
..... Geothermal	Utility Scale Facilities	2,451.5	2.0	0.0	2,453.5	2.0	-58.0	-88.0	0.0	37.0	0.0	0.0	0.0	37.0	2,453.5	2,490.5
... Renewable Sources Subtotal	**Utility Scale Facilities**	**202,077.2**	**993.9**	**217.4**	**202,853.7**	**776.5**	**3,439.2**	**17,833.9**	**448.4**	**11,081.5**	**1.6**	**258.9**	**446.8**	**10,822.6**	**203,300.5**	**213,676.3**
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	239,938.2	10,116.2	7,559.7	242,494.7	2,556.5	2,975.5	5,750.2	1,097.8	10,683.5	0.0	0.0	1,097.8	10,683.5	243,592.5	253,178.2
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	127,106.2	210.0	335.3	126,980.9	-125.3	233.8	3,334.2	462.8	2,349.2	36.0	264.2	426.8	2,085.0	127,407.7	129,065.9
..... Natural Gas Steam Turbine	Utility Scale Facilities	75,999.7	2,258.2	580.9	77,677.0	1,677.3	1,250.8	-617.2	0.0	0.0	0.0	1,557.1	0.0	-1,557.1	77,677.0	76,119.9
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	4,266.4	23.2	5.3	4,284.3	17.9	245.5	593.4	0.0	188.7	0.9	0.9	-0.9	187.8	4,283.4	4,472.1
..... 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	121.6	2.8	0.0	124.4	2.8	8.1	17.3	0.0	29.2	0.0	0.0	0.0	29.2	124.4	153.6
..... Natural Gas Subtotal	Utility Scale Facilities	447,542.1	12,610.4	8,481.2	451,671.3	4,129.2	4,713.7	9,077.9	1,560.6	13,250.6	36.9	1,822.2	1,523.7	11,428.4	453,195.0	463,099.7
..... Conventional Steam Coal	Utility Scale Facilities	267,738.7	225.1	3,464.1	264,499.7	-3,239.0	-4,746.2	-8,509.1	0.0	0.0	0.0	5,334.0	0.0	-5,334.0	264,499.7	259,165.7
..... 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	268,553.7	225.1	3,464.1	265,314.7	-3,239.0	-4,746.2	-8,509.1	0.0	0.0	0.0	5,334.0	0.0	-5,334.0	265,314.7	259,980.7
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	0.0	1,540.3	0.0	0.0	-204.0	0.0	0.0	0.0	0.0	0.0	0.0	1,540.3	1,540.3
..... Petroleum Liquids	Utility Scale Facilities	34,383.9	179.9	157.1	34,406.7	22.8	-450.9	-521.2	4.3	17.9	0.7	547.5	3.6	-529.6	34,410.3	33,877.1
..... Other Gases	Utility Scale Facilities	2,435.2	29.0	7.5	2,456.7	21.5	-40.5	-43.7	0.0	0.0	0.0	0.0	0.0	0.0	2,456.7	2,456.7
... Fossil Fuels Subtotal	**Utility Scale Facilities**	**754,455.2**	**13,044.4**	**12,109.9**	**755,389.7**	**934.5**	**-523.9**	**-200.1**	**1,564.9**	**13,268.5**	**37.6**	**7,703.7**	**1,527.3**	**5,564.8**	**756,917.0**	**760,954.5**
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,670.1	101.0	14.0	22,757.1	87.0	87.0	160.0	57.0	57.0	0.0	0.0	57.0	57.0	22,814.1	22,814.1
..... 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	590.1	35.5	0.0	625.6	35.5	85.9	236.4	2.0	100.9	0.0	0.0	2.0	100.9	627.6	726.5
... Energy Storage Subtotal	**Utility Scale Facilities**	**23,302.2**	**136.5**	**14.0**	**23,424.7**	**122.5**	**170.9**	**394.4**	**59.0**	**157.9**	**0.0**	**0.0**	**59.0**	**157.9**	**23,483.7**	**23,582.6**
... Nuclear	**Utility Scale Facilities**	**99,330.5**	**156.0**	**19.3**	**99,467.2**	**136.7**	**151.3**	**795.2**	**0.0**	**20.0**	**0.0**	**0.0**	**0.0**	**20.0**	**99,467.2**	**99,487.2**
... All Other	**Utility Scale Facilities**	**1,372.7**	**6.5**	**0.0**	**1,379.2**	**6.5**	**-105.6**	**-82.2**	**0.0**	**54.8**	**0.0**	**0.0**	**0.0**	**54.8**	**1,379.2**	**1,434.0**
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,537.8**	**14,337.3**	**12,360.6**	**1,082,514.5**	**1,976.7**	**3,131.9**	**18,741.2**	**2,072.3**	**24,582.7**	**39.2**	**7,962.6**	**2,033.1**	**16,620.1**	**1,084,547.6**	**1,099,134.6**
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	14,107.5			14,282.4	174.9	1,099.2	3,212.6								
..... Estimated Total Solar Photovoltaic	All Facilities	34,872.5			35,633.1	760.6	2,679.6	11,439.7								
... Estimated Total Solar	**All Facilities**	**36,630.4**			**37,391.0**	**760.6**	**2,679.6**	**11,439.7**								

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

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

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

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-826, Form EIA-861 and from

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

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.'

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	5,528.2	5,039.5	22,708.4	22,754.5	1,797.4	1,797.4	21.0	4.0	4,015.9	4,018.0	48.0	48.0	34,118.9	33,661.4
Connecticut	349.0	335.7	6,309.1	6,307.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,802.1	8,786.0
Maine	2,452.0	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	4,932.7	4,615.0
Massachusetts	1,101.0	1,000.3	9,786.1	9,843.0	1,768.0	1,768.0	2.0	2.0	677.2	682.3	0.0	0.0	13,334.3	13,295.6
New Hampshire	933.4	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	4,450.3	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	591.2	564.7	97.9	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	691.1	666.4
Middle Atlantic	10,955.2	10,703.9	69,317.7	67,657.2	3,409.1	3,409.1	70.4	60.0	19,330.3	19,224.5	11.2	11.2	103,093.9	101,065.9
New Jersey	857.4	730.5	13,575.2	13,539.5	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	18,971.7	18,809.1
New York	7,214.1	7,118.6	25,974.7	25,930.1	1,406.1	1,406.1	20.0	20.0	5,399.4	5,397.6	0.0	0.0	40,014.3	39,872.4
Pennsylvania	2,883.7	2,854.8	29,767.8	28,187.6	1,583.0	1,583.0	50.4	40.0	9,823.0	9,719.0	0.0	0.0	44,107.9	42,384.4
East North Central	10,759.0	10,211.0	113,801.8	114,510.4	2,076.0	1,964.0	187.4	157.4	18,897.7	18,896.1	110.1	110.1	145,832.0	145,849.0
Illinois	4,174.8	3,977.0	29,577.4	29,896.4	0.0	0.0	112.4	112.4	11,587.3	11,589.6	0.0	0.0	45,451.9	45,575.4
Indiana	2,205.8	2,159.5	23,106.0	23,557.9	0.0	0.0	22.0	2.0	0.0	0.0	89.0	89.0	25,422.8	25,808.4
Michigan	2,419.8	2,258.4	20,842.6	20,871.0	2,076.0	1,964.0	0.0	0.0	3,980.4	3,976.5	0.0	0.0	29,318.8	29,069.9
Ohio	839.0	715.6	25,804.0	25,835.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	28,830.0	28,727.6
Wisconsin	1,119.6	1,100.5	14,471.8	14,350.1	0.0	0.0	0.0	0.0	1,196.0	1,196.0	21.1	21.1	16,808.5	16,667.7
West North Central	25,219.4	21,492.1	61,237.6	60,494.9	657.0	657.0	2.0	2.0	5,394.9	5,855.5	24.5	24.5	92,535.4	88,526.0
Iowa	6,905.3	6,351.1	10,185.6	9,532.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,692.3	16,485.0
Kansas	4,952.0	3,789.9	9,762.9	9,599.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	15,890.7	14,565.5
Minnesota	4,457.8	3,917.3	10,186.9	10,160.6	0.0	0.0	1.0	1.0	1,657.0	1,647.0	18.4	18.4	16,321.1	15,744.3
Missouri	1,245.2	1,035.0	18,622.7	18,659.1	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,715.9	21,542.1
Nebraska	1,629.5	1,221.5	6,254.8	6,237.1	0.0	0.0	0.0	0.0	771.5	1,242.1	0.0	0.0	8,655.8	8,700.7
North Dakota	3,592.8	2,741.5	4,537.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,135.7	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	16,824.8	14,464.8	162,746.7	159,886.1	7,905.2	7,905.2	79.5	77.5	24,598.6	24,578.6	402.7	509.7	212,557.5	207,421.9
Delaware	46.4	44.9	3,364.0	3,358.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,410.4	3,403.0
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	1,695.4	1,434.2	55,855.4	53,849.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	61,471.5	59,204.5
Georgia	3,913.0	3,243.7	26,958.5	27,190.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,795.7	36,358.8
Maryland	1,058.7	1,023.6	10,282.7	9,630.7	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,062.2	12,373.1
North Carolina	5,380.2	4,228.2	21,814.1	22,021.3	86.0	86.0	0.0	0.0	5,113.6	5,113.6	54.0	161.0	32,447.9	31,610.1
South Carolina	1,824.5	1,790.4	11,579.3	11,633.0	2,716.0	2,716.0	0.0	0.0	6,576.2	6,556.2	0.0	0.0	22,696.0	22,695.6
Virginia	1,863.8	1,757.8	18,720.4	18,030.2	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,393.2	26,597.0
West Virginia	1,030.8	930.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,259.6	15,158.8
East South Central	8,383.4	8,175.3	65,705.7	65,940.3	1,616.3	1,616.3	0.0	0.0	10,984.1	9,868.1	1.4	1.4	86,690.9	85,601.4
Alabama	4,077.0	3,939.9	20,227.7	20,214.5	0.0	0.0	0.0	0.0	5,060.4	5,066.4	0.0	0.0	29,365.1	29,220.8
Kentucky	1,114.4	1,071.6	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	20,076.1
Mississippi	277.8	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	15,982.2	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	3,400.7	0.0	0.0	21,354.6	20,220.0
West South Central	32,718.0	27,802.0	142,741.1	144,945.9	286.0	286.0	41.0	40.0	8,910.7	8,896.2	522.1	512.2	185,218.9	182,482.3
Arkansas	1,592.1	1,591.6	11,265.2	11,284.8	28.0	28.0	0.0	0.0	1,817.8	1,808.5	0.0	0.0	14,703.1	14,712.9
Louisiana	682.1	687.1	21,232.1	23,236.8	0.0	0.0	0.0	0.0	2,132.9	2,127.7	298.1	275.9	24,345.2	26,327.5
Oklahoma	7,585.8	6,389.5	18,289.9	18,175.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,133.7	24,822.9
Texas	22,858.0	19,133.8	91,953.9	92,248.9	0.0	0.0	41.0	40.0	4,960.0	4,960.0	224.0	236.3	120,036.9	116,619.0
Mountain	25,327.9	22,481.6	63,602.9	64,087.8	778.8	778.8	42.6	2.6	3,937.0	3,937.0	126.3	111.4	93,815.5	91,399.2
Arizona	4,974.7	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	28,575.3	28,093.1
Colorado	4,157.3	3,857.7	11,354.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,083.1	15,792.5
Idaho	4,025.1	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	5,187.0	4,948.4
Montana	3,411.3	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	6,195.7	6,198.5
Nevada	3,344.9	2,747.6	7,991.6	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	11,343.0	11,006.3
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	1,589.1	896.5	7,352.0	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	8,981.3	8,390.7
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	66,034.9	63,569.7	49,311.9	51,152.1	4,231.3	4,183.3	163.2	33.7	3,398.0	3,398.0	106.3	106.3	123,245.6	122,443.1
California	29,074.8	26,809.3	40,221.1	42,484.6	3,917.3	3,869.3	153.0	25.5	2,240.0	2,240.0	106.3	106.3	75,712.5	75,535.0
Oregon	12,172.4	12,041.1	4,318.1	3,859.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,495.5	15,905.9
Washington	24,787.7	24,719.3	4,772.7	4,807.7	314.0	314.0	5.2	3.2	1,158.0	1,158.0	0.0	0.0	31,037.6	31,002.2
Pacific Noncontiguous	1,102.9	1,079.9	4,215.9	4,160.6	0.0	0.0	60.5	56.0	0.0	0.0	26.6	26.6	5,405.9	5,323.1
Alaska	537.8	508.7	2,158.7	2,103.4	0.0	0.0	32.0	29.0	0.0	0.0	0.0	0.0	2,728.5	2,641.1
Hawaii	565.1	571.2	2,057.2	2,057.2	0.0	0.0	28.5	27.0	0.0	0.0	26.6	26.6	2,677.4	2,682.0
U.S. Total	202,853.7	185,019.8	755,389.7	755,589.8	22,757.1	22,597.1	667.6	433.2	99,467.2	98,672.0	1,379.2	1,461.4	1,082,514.5	1,063,773.3

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, April 2017 and 2016 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	1,349.5	1,009.8	555.4	425.8	0.0	0.0	1,959.2	1,955.2	1,664.1	1,648.7	0.0	0.0	5,528.2	5,039.5	1,523.2	1,160.0	2,078.6	1,585.8	2,078.6	1,585.8
Connecticut	1.1	1.1	22.2	13.2	0.0	0.0	122.2	122.2	203.5	199.2	0.0	0.0	349.0	335.7	287.5	207.4	309.7	220.6	309.7	220.6
Maine	898.8	612.8	0.0	0.0	0.0	0.0	734.2	728.9	819.0	808.8	0.0	0.0	2,452.0	2,150.5	26.0	18.9	26.0	18.9	26.0	18.9
Massachusetts	94.5	86.6	457.3	364.5	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,101.0	1,000.3	1,033.8	833.3	1,491.1	1,197.8	1,491.1	1,197.8
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	245.5	244.6	0.0	0.0	933.4	932.5	61.2	33.1	61.2	33.1	61.2	33.1
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	32.4	12.6	42.6	22.8	42.6	22.8
Vermont	120.2	120.2	65.7	37.9	0.0	0.0	329.4	330.7	75.9	75.9	0.0	0.0	591.2	564.7	82.3	54.7	148.0	92.6	148.0	92.6
Middle Atlantic	3,205.7	3,088.1	768.5	610.7	0.0	0.0	5,629.5	5,623.5	1,351.5	1,381.6	0.0	0.0	10,955.2	10,703.9	2,364.9	1,918.5	3,133.4	2,529.2	3,133.4	2,529.2
New Jersey	7.6	7.6	608.4	481.5	0.0	0.0	12.3	12.3	229.1	229.1	0.0	0.0	857.4	730.5	1,285.7	1,117.2	1,894.1	1,598.7	1,894.1	1,598.7
New York	1,824.7	1,747.0	112.2	84.8	0.0	0.0	4,717.6	4,711.6	559.6	575.2	0.0	0.0	7,214.1	7,118.6	826.7	605.0	938.9	689.8	938.9	689.8
Pennsylvania	1,373.4	1,333.5	47.9	44.4	0.0	0.0	899.6	899.6	562.8	577.3	0.0	0.0	2,883.7	2,854.8	252.5	196.3	300.4	240.7	300.4	240.7
East North Central	8,322.7	7,814.1	292.6	215.3	0.0	0.0	852.7	910.3	1,291.0	1,271.3	0.0	0.0	10,759.0	10,211.0	213.2	156.5	505.8	371.8	505.8	371.8
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	124.1	110.3	0.0	0.0	4,174.8	3,977.0	29.9	23.3	62.7	56.1	62.7	56.1
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	15.8	8.9	188.4	140.8	188.4	140.8
Michigan	1,583.8	1,360.1	12.5	6.9	0.0	0.0	263.0	330.9	560.5	560.5	0.0	0.0	2,419.8	2,258.4	NM	29.7	NM	36.6	NM	36.6
Ohio	533.9	433.1	66.6	42.7	0.0	0.0	101.9	101.9	136.6	137.9	0.0	0.0	839.0	715.6	87.3	72.8	153.9	115.5	153.9	115.5
Wisconsin	331.5	331.4	8.1	1.0	0.0	0.0	393.3	383.0	386.7	385.1	0.0	0.0	1,119.6	1,100.5	33.9	21.8	42.0	22.8	42.0	22.8
West North Central	21,086.6	17,642.5	292.9	20.6	0.0	0.0	3,289.4	3,278.1	550.5	550.9	0.0	0.0	25,219.4	21,492.1	217.1	165.4	510.0	186.0	510.0	186.0
Iowa	6,736.4	6,183.0	2.6	0.0	0.0	0.0	144.9	144.9	21.4	23.2	0.0	0.0	6,905.3	6,351.1	49.8	33.9	52.4	33.9	52.4	33.9
Kansas	4,935.0	3,772.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	4,952.0	3,789.9	7.9	5.6	8.9	6.6	8.9	6.6
Minnesota	3,520.5	3,240.7	253.3	5.3	0.0	0.0	205.9	194.6	478.1	476.7	0.0	0.0	4,457.8	3,917.3	33.6	22.9	286.9	28.2	286.9	28.2
Missouri	654.3	458.5	28.7	14.3	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,245.2	1,035.0	122.0	100.8	150.7	115.1	150.7	115.1
Nebraska	1,329.6	927.9	6.3	0.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,221.5	2.9	1.4	9.2	1.4	9.2	1.4
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	4,212.5	2,268.3	0.0	0.0	7,266.5	7,249.3	4,259.5	4,171.9	0.0	0.0	16,824.8	14,464.8	1,266.4	905.3	5,478.9	3,173.6	5,478.9	3,173.6
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	88.2	72.7	120.4	103.4	120.4	103.4
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	45.5	32.2	45.5	32.2	45.5	32.2
Florida	0.0	0.0	345.5	91.1	0.0	0.0	54.5	54.5	1,295.4	1,288.6	0.0	0.0	1,695.4	1,434.2	156.8	132.5	502.3	223.6	502.3	223.6
Georgia	0.0	0.0	968.1	302.8	0.0	0.0	2,047.1	2,045.1	897.8	895.8	0.0	0.0	3,913.0	3,243.7	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	136.7	101.6	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,058.7	1,023.6	609.3	436.3	746.0	537.9	746.0	537.9
North Carolina	208.0	0.0	2,605.3	1,736.6	0.0	0.0	2,002.0	2,004.1	564.9	487.5	0.0	0.0	5,380.2	4,228.2	115.3	92.9	2,720.6	1,829.5	2,720.6	1,829.5
South Carolina	0.0	0.0	19.3	2.5	0.0	0.0	1,362.4	1,345.1	442.8	442.8	0.0	0.0	1,824.5	1,790.4	81.9	11.6	101.2	14.1	101.2	14.1
Virginia	0.0	0.0	105.4	3.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,863.8	1,757.8	43.6	24.9	149.0	27.9	149.0	27.9
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	344.5	344.5	0.0	2.2	0.0	0.0	1,030.8	930.0	5.0	3.9	5.0	3.9	5.0	3.9
East South Central	29.1	29.1	169.0	45.2	0.0	0.0	6,921.8	6,890.5	1,263.5	1,210.5	0.0	0.0	8,383.4	8,175.3	81.2	55.4	250.2	100.6	250.2	100.6
Alabama	0.0	0.0	85.6	0.0	0.0	0.0	3,271.0	3,271.0	720.4	668.9	0.0	0.0	4,077.0	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,032.2	1,000.9	72.2	70.7	0.0	0.0	1,114.4	1,071.6	12.9	10.7	22.9	10.7	22.9	10.7
Mississippi	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	277.8	274.7	25.4	2.9	28.5	2.9	28.5	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	39.8	39.5	110.1	84.7	110.1	84.7
West South Central	27,388.1	23,109.1	982.3	333.4	0.0	0.0	2,989.0	2,986.5	1,358.6	1,373.0	0.0	0.0	32,718.0	27,802.0	519.8	304.3	1,502.1	637.7	1,502.1	637.7
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	4.2	18.8	17.2	18.8	17.2
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	125.8	112.1	125.8	112.1	125.8	112.1
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	13.6	2.9	16.1	5.4	16.1	5.4
Texas	20,744.0	17,657.9	966.8	317.9	0.0	0.0	668.7	668.7	478.5	489.3	0.0	0.0	22,858.0	19,133.8	374.6	185.1	1,341.4	503.0	1,341.4	503.0
Mountain	8,404.5	7,901.4	5,174.4	2,814.8	473.9	473.9	10,542.4	10,560.5	187.9	186.2	544.8	544.8	25,327.9	22,481.6	1,631.6	1,444.3	6,806.0	4,259.1	7,279.9	4,733.0
Arizona	267.3	267.3	1,660.4	1,243.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,974.7	4,557.4	914.0	817.6	2,574.4	2,060.7	2,869.8	2,356.1
Colorado	3,026.1	2,961.8	417.5	192.0	0.0	0.0	685.0	676.5	28.7	27.4	0.0	0.0	4,157.3	3,857.7	305.8	268.2	723.3	460.2	723.3	460.2
Idaho	970.5	962.7	240.0	0.0	0.0	0.0	2,708.9	2,707.7	95.7	95.7	10.0	10.0	4,025.1	3,776.1	8.3	5.4	248.3	5.4	248.3	5.4
Montana	678.5	653.5	0.0	0.0	0.0	0.0	2,729.8	2,757.6	3.0	3.0	0.0	0.0	3,411.3	3,414.1	9.0	6.5	9.0	6.5	9.0	6.5
Nevada	150.0	150.0	1,495.0	897.9	178.5	178.5	1,051.4	1,051.4	9.8	9.6	460.2	460.2	3,344.9	2,747.6	180.6	196.8	1,675.6	1,094.7	1,854.1	1,273.2
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	63.7	81.0	568.1	396.4	568.1	396.4
Utah	388.2	386.5	857.1	166.4	0.0	0.0	256.4	256.4	14.4	14.2	73.0	73.0	1,589.1	896.5	147.7	66.8	1,004.8	233.2	1,004.8	233.2
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	NM	2.0	NM	2.0	NM	2.0
Pacific Contiguous	12,005.4	11,957.3	8,819.8	6,345.3	1,284.0	1,284.0	40,015.0	39,954.8	2,045.0	2,074.6	1,865.7	1,953.7	66,034.9	63,569.7	5,918.6	4,556.4	14,738.4	10,901.7	16,022.4	12,185.7
California	5,722.1	5,726.8	8,719.4	6,323.6	1,284.0	1,284.0	10,178.7	10,186.7	1,324.4	1,354.0	1,846.2	1,934.2	29,074.8	26,809.3	5,713.0	4,416.5	14,432.4	10,740.1	15,716.4	12,024.1
Oregon	3,210.2	3,157.4	99.9	21.2	0.0	0.0	8,525.2	8,525.4	317.6	317.6	19.5	19.5	12,172.4	12,041.1	124.8	77.0	224.7	98.2	224.7	98.2
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,311.1	21,242.7	403.0	403.0	0.0	0.0	24,787.7	24,719.3	80.8	62.9	81.3	63.4	81.3	63.4
Pacific Noncontiguous	266.2	266.2	83.3	44.2	0.0	0.0	496.1	466.1	214.3	260.4	43.0	43.0	1,102.9	1,079.9	546.5	403.7	629.8	447.9	629.8	447.9
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	1.6	0.0	1.6	0.0	1.6	0.0
Hawaii	205.6	205.6	83.3	44.2	0.0	0.0	25.9	25.0	207.3	253.4	43.0	43.0	565.1	571.2	544.9	403.7	628.2	447.9	628.2	447.9
U.S. Total	83,144.1	73,592.9	21,350.7	13,123.6	1,757.9	1,757.9	79,961.6	79,874.8	14,185.9	14,129.1	2,453.5	2,541.5	202,853.7	185,019.8	14,282.4	11,069.8	35,633.1	24,193.4	37,391.0	25,951.3

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, April 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	
	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016	April 2017	April 2016
New England	11,886.6	11,893.0	1,117.3	1,115.5	654.1	641.5	1,955.3	1,988.3	0.0	0.0	7,095.1	7,116.2	0.0	0.0	22,708.4	22,754.5
Connecticut	2,540.8	2,547.5	479.3	479.3	427.2	416.6	383.4	383.4	0.0	0.0	2,478.4	2,480.3	0.0	0.0	6,309.1	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	5,087.6	5,098.6	337.1	335.3	200.0	198.0	1,038.0	1,071.0	0.0	0.0	3,123.4	3,140.1	0.0	0.0	9,786.1	9,843.0
New Hampshire	1,231.0	1,235.2	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	497.3	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	26,294.1	24,639.1	7,568.7	7,599.7	15,353.6	13,211.8	14,512.1	16,613.0	78.6	78.6	5,386.8	5,391.2	123.8	123.8	69,317.7	67,657.2
New Jersey	8,097.9	8,047.5	2,810.4	2,817.1	1,113.2	1,113.2	1,245.0	1,245.0	11.6	11.6	273.7	281.7	23.4	23.4	13,575.2	13,539.5
New York	8,128.1	8,069.1	3,078.0	3,105.2	9,624.3	9,522.0	1,642.1	1,749.6	0.0	0.0	3,502.2	3,484.2	0.0	0.0	25,974.7	25,930.1
Pennsylvania	10,068.1	8,522.5	1,680.3	1,677.4	4,616.1	2,576.6	11,625.0	13,618.4	67.0	67.0	1,610.9	1,625.3	100.4	100.4	29,767.8	28,187.6
East North Central	17,109.4	17,001.6	26,257.2	25,595.3	3,980.3	3,486.6	62,286.3	64,037.8	317.6	521.6	2,685.1	2,724.4	1,165.9	1,143.1	113,801.8	114,510.4
Illinois	3,547.5	3,543.0	10,304.4	10,164.4	281.4	281.4	14,644.6	15,109.6	0.0	0.0	685.0	680.3	114.5	117.7	29,577.4	29,896.4
Indiana	2,459.0	2,480.2	3,241.2	3,127.6	706.9	288.1	15,776.8	16,529.4	70.0	274.0	237.8	270.3	614.3	588.3	23,106.0	23,557.9
Michigan	4,279.1	4,296.5	3,922.0	3,513.5	2,322.7	2,465.8	9,503.7	9,767.5	47.2	47.2	517.9	530.5	250.0	250.0	20,842.6	20,871.0
Ohio	4,074.8	4,041.0	5,431.7	5,427.7	150.8	131.4	15,177.6	15,259.9	142.0	142.0	640.0	645.9	187.1	187.1	25,804.0	25,835.0
Wisconsin	2,749.0	2,640.9	3,357.9	3,362.1	518.5	319.9	7,183.6	7,371.4	58.4	58.4	604.4	597.4	0.0	0.0	14,471.8	14,350.1
West North Central	6,638.6	5,917.9	11,498.9	11,380.8	4,273.6	3,715.6	34,754.3	35,343.8	32.0	32.0	4,031.8	4,096.4	8.4	8.4	61,237.6	60,494.9
Iowa	1,774.7	1,125.8	1,192.4	1,105.6	688.9	535.4	5,541.1	5,719.1	32.0	32.0	956.5	1,014.6	0.0	0.0	10,185.6	9,532.5
Kansas	266.0	149.0	2,168.8	2,171.8	2,105.6	2,054.5	4,683.2	4,687.2	0.0	0.0	539.3	537.3	0.0	0.0	9,762.9	9,599.8
Minnesota	2,172.0	2,173.2	2,539.8	2,534.1	376.6	353.8	4,301.0	4,300.1	0.0	0.0	797.5	799.4	0.0	0.0	10,186.9	10,160.6
Missouri	1,793.3	1,837.3	3,424.5	3,395.2	350.8	349.9	11,909.4	11,932.0	0.0	0.0	1,144.7	1,144.7	0.0	0.0	18,622.7	18,659.1
Nebraska	342.6	342.6	1,150.8	1,151.5	631.4	413.3	3,817.3	4,016.0	0.0	0.0	312.7	313.7	0.0	0.0	6,254.8	6,237.1
North Dakota	0.0	0.0	328.0	328.0	111.6	0.0	4,028.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,537.6	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	53,227.5	51,223.3	32,942.2	31,109.1	7,410.5	7,071.9	57,513.2	58,424.6	83.8	83.8	11,434.5	11,838.4	135.0	135.0	162,746.7	159,886.1
Delaware	1,512.0	1,512.0	315.2	311.0	877.7	876.0	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,364.0	3,358.1
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	28,020.7	27,505.6	9,079.5	7,480.4	2,865.3	3,034.7	9,984.0	9,984.0	0.0	0.0	5,905.9	5,844.9	0.0	0.0	55,855.4	53,849.6
Georgia	7,953.5	7,953.2	7,841.3	7,857.0	789.4	789.4	9,353.5	9,508.5	83.8	83.8	937.0	999.0	0.0	0.0	26,958.5	27,190.9
Maryland	976.0	250.0	1,960.0	1,581.0	1,415.8	1,489.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,282.7	9,630.7
North Carolina	4,724.8	4,766.0	5,957.7	6,049.7	0.0	0.0	10,745.8	10,802.8	0.0	0.0	385.8	402.8	0.0	0.0	21,814.1	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	513.4	525.4	0.0	0.0	11,579.3	11,633.0
Virginia	7,631.5	6,827.5	3,894.3	3,894.1	1,043.3	586.0	3,802.9	4,379.3	0.0	0.0	2,348.4	2,343.3	0.0	0.0	18,720.4	18,030.2
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	0.0	12,958.0	13,081.0	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	5,299.8	3,887.0	26,978.5	29,692.4	0.0	0.0	207.0	217.0	19.8	99.8	65,705.7	65,940.3
Alabama	9,441.4	9,397.8	2,532.2	2,530.6	1,908.3	636.3	6,283.4	7,507.4	0.0	0.0	42.6	42.6	19.8	99.8	20,227.7	20,214.5
Kentucky	1,763.3	663.3	4,976.6	4,976.6	260.0	0.0	11,797.8	13,287.7	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	3.2	3.2	7,077.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,301.4	12,313.9
West South Central	58,180.8	58,972.1	13,339.2	12,815.1	32,998.6	34,925.8	36,426.6	36,432.5	959.3	959.3	181.3	181.3	655.3	659.8	142,741.1	144,945.9
Arkansas	4,620.5	4,602.9	702.8	731.0	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	11,284.8
Louisiana	7,581.2	7,557.4	2,340.3	2,358.1	7,107.1	9,117.8	2,855.1	2,855.1	895.5	895.5	45.5	45.5	407.4	407.4	21,232.1	23,236.8
Oklahoma	6,797.2	6,720.2	1,286.9	1,292.2	5,264.9	5,222.1	4,866.5	4,866.5	0.0	0.0	74.4	74.4	0.0	0.0	18,289.9	18,175.4
Texas	39,181.9	40,091.6	9,009.2	8,433.8	19,812.9	19,769.6	23,589.0	23,588.5	63.8	63.8	49.2	49.2	247.9	252.4	91,953.9	92,248.9
Mountain	22,489.9	22,487.3	8,859.0	8,926.6	3,180.0	3,196.9	28,539.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,602.9	64,087.8
Arizona	9,891.6	9,866.7	2,367.6	2,367.6	1,147.6	1,147.6	5,910.0	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	5,043.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,354.0	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	320.0	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,352.0	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	25,990.4	25,151.4	11,769.7	11,447.0	8,870.2	11,890.1	2,015.0	2,015.0	17.0	17.0	422.3	422.3	227.3	209.3	49,311.9	51,152.1
California	19,945.0	19,571.3	10,916.5	10,551.8	8,618.2	11,638.1	90.0	90.0	17.0	17.0	407.1	407.1	227.3	209.3	40,221.1	42,484.6
Oregon	3,374.9	2,916.6	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	3,859.8
Washington	2,670.5	2,663.5	719.4	761.4	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,772.7	4,807.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,592.0	2,569.9	9.6	9.6	4,215.9	4,160.6
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	724.4	702.3	0.0	0.0	2,158.7	2,103.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,867.6	1,867.6	9.6	9.6	2,057.2	2,057.2
U.S. Total	242,494.7	236,744.5	126,980.9	123,646.7	82,195.7	82,202.2	265,314.7	273,823.8	1,540.3	1,744.3	34,406.7	34,927.9	2,456.7	2,500.4	755,389.7	755,589.8

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	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	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC29	1.0	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

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	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
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	3	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT
2017	3	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA
2017	3	60448	Simcoe Solar	IPP	Simcoe Solar	ID	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV
2017	3	60651	Spring Street Solar 1, LLC	IPP	Spring Street Solar 1 CSG	MA	61009	SPRIN	2.0	Solar Photovoltaic	SUN	PV
2017	3	19728	UNS Electric, Inc	Electric Utility	Jacobson 5 MW Solar	AZ	60603	PV1	4.1	Solar Photovoltaic	SUN	PV
2017	3	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT
2017	3	60487	Wabasha Holdco LLC	IPP	Wabasha Holdco Solar	MN	60838	WABAS	3.0	Solar Photovoltaic	SUN	PV
2017	3	22500	Westar Energy Inc	Electric Utility	Western Plains Wind Farm	KS	60689	1	280.0	Onshore Wind Turbine	WND	WT
2017	3	60614	Westside Solar, LLC	IPP	NextEra Westside PV	CA	60981	WS526	20.0	Solar Photovoltaic	SUN	PV
2017	3	60619	Whitney Point Solar, LLC	IPP	Whitney Point Solar	CA	60975	WS532	20.0	Solar Photovoltaic	SUN	PV
2017	3	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT
2017	4	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar CSG 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV
2017	4	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	COGEN	2.0	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0	Other Waste Biomass	OBG	GT
2017	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA
2017	4	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

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	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

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

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	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	30.0
2017	5	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	5	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	5	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	5	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	5	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	5	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	163.0
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	5	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	5	60775	Bizzell Church Solar 2, 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	5	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	5	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	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	6.5
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	28.4
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.6
2017	5	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	5	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	511.2
2017	5	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	5	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	5	60738	Gulf Coast Solar Center I (CA)	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	30.0
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	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	5	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	5	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	5	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	5	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	5	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.9
2017	5	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.9
2017	5	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	5	60520	SoCore Energy LLC	IPP	T0588 Phoenix - AZ	AZ	61199	PV1	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	5	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.8
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2017	5	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	5	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	5	57313	SolarCity Corporation	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	5	60773	St. Pauls Solar 2, 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	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	5	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.8
2017	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	5	60723	VRF Battery Plant	Electric Utility	Vanadium Redox Flow Battery Plant	CA	61107	VRF	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	5	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	5	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	5	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2017	5	57081	WGL Energy Systems, Inc	IPP	Gulfport Naval Base PV System	MS	61208	PV1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	5	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	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	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	6	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	6	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	6	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	6	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2017	6	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	6	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	3.2
2017	6	60774	Boaz Farm Solar, 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	6	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	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	178.2
2017	6	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	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	43.2
2017	6	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	6	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
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Albany Solar	MN	60519	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Annandale Solar	MN	60520	PV1	6.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Atwater	MN	60521	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Dodge Center Solar	MN	60523	PV1	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Eastwood Solar	MN	60524	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Hastings Solar	MN	60525	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lake Emily Solar	MN	60526	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lake Pulaski Solar	MN	60527	PV1	7.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lawrence Creek Solar	MN	60528	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Montrose Solar	MN	60529	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Paynesville Solar	MN	60530	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Pine Island Solar	MN	60531	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Waseca Solar	MN	60532	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	West Faribault Solar	MN	60533	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	West Waconia Solar	MN	60534	PV1	8.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.5
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM01	1.5	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM02	1.5	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM03	1.5	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	508.5
2017	6	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	6	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	6	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	6	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	6	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	6	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	6	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	6	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.9
2017	6	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	6	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2017	6	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	6	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	6	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	6	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	6	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	6	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	6	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	6	58822	MC Power Companies Inc	IPP	Chillicothe Solar Farm	MO	61223	CHSF1	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2017	6	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.0
2017	6	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	(V) Under construction, more than 50 percent complete	13.8
2017	6	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	6	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	6	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	6	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	6	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	6	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	6	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	57313	SolarCity Corporation	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	6	57313	SolarCity Corporation	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	6	57313	SolarCity Corporation	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	6	57313	SolarCity Corporation	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

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	6	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	6	57313	SolarCity Corporation	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	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	11.0
2017	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	15.0
2017	6	57313	SolarCity Corporation	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2017	6	57313	SolarCity Corporation	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	6	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	6	57313	SolarCity Corporation	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	6	57313	SolarCity Corporation	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.6
2017	6	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	6	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	6	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	6	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	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	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.5
2017	7	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
2017	7	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
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	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
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	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
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	(V) Under construction, more than 50 percent complete	40.0
2017	7	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	404.0
2017	7	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	7	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	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	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	57313	SolarCity Corporation	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	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	7	57313	SolarCity Corporation	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2017	7	57313	SolarCity Corporation	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	7	57313	SolarCity Corporation	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	60163	Soltage LLC	IPP	231 Dixon 74 Solar I, LLC	NC	61195	DIXON	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	7	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
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	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.4
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	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	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	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	60795	Columbus Solar Project	IPP	Columbus Solar Project	NM	61165	88029	1.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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

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	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	8	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	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
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	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	8	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	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	(U) Under construction, less than or equal to 50 percent complete	20.0
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	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	8	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	8	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	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	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	(U) Under construction, less than or equal to 50 percent complete	149.3
2017	8	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	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	57313	SolarCity Corporation	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	57313	SolarCity Corporation	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	9	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
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	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	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	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
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	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	9	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	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	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	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	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	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	9	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	59109	SUNE BEACON SITE 2, 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	59110	SUNE BEACON SITE 5, 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	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	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	9	57313	SolarCity Corporation	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	60163	Soltage LLC	IPP	Mill Pond Solar Farm, LLC	NC	61196	MILLL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	9	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	9	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	9	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
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	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	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	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	10	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	10	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	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	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
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	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	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	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	1.1
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	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
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	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.9
2017	10	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
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	(L) Regulatory approvals pending. Not under construction	99.1
2017	10	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	10	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	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	57313	SolarCity Corporation	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	60163	Soltage LLC	IPP	Broadridge Solar, LLC	NC	61218	BROAD	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	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	10	57054	Suzlon Project VIII LLC	IPP	Suzlon Project VIII LLC	TX	57741	S128	2.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	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	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	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(V) Under construction, more than 50 percent complete	4.0
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	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
2017	11	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
2017	11	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	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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
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	(T) Regulatory approvals received. Not under construction	9.9
2017	11	60869	EDF Renewable Energy	IPP	Rock Falls Wind Farm LLC	OK	61261	RF1	154.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	154.5
2017	11	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.5
2017	11	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	60811	Golden Hills North Wind, LLC	IPP	Golden Hills North Wind Energy Center	CA	61222	1	46.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	46.0
2017	11	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
2017	11	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
2017	11	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	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	71.4
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	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	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	11	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	11	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	11	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	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	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	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	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	(T) Regulatory approvals received. Not under construction	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	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	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
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	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	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2017	12	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	12	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	(L) Regulatory approvals pending. 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	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	236.0
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	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	56215	E ON Climate Renewables N America LLC	IPP	Bruennings Breeze Wind Farm	TX	59066	MVII	228.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	(T) Regulatory approvals received. Not under construction	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	(U) Under construction, less than or equal to 50 percent complete	278.0
2017	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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
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	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	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
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	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
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	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
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	(P) Planned for installation, but regulatory approvals not initiated	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

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	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	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	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
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	(U) Under construction, less than or equal to 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	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	(T) Regulatory approvals received. Not under construction	7.0
2017	12	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
2017	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	57313	SolarCity Corporation	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2017	12	57313	SolarCity Corporation	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	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	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	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	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
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	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
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	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	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	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
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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	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	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

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	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	57313	SolarCity Corporation	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	(P) Planned for installation, but regulatory approvals not initiated	73.4
2018	3	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	3	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	3	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	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	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	3	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	3	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	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	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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	3	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	3	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	3	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	(L) Regulatory approvals pending. Not under construction	238.0
2018	3	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	3	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	3	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	3	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	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	57313	SolarCity Corporation	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	57313	SolarCity Corporation	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	57313	SolarCity Corporation	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	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	260.0
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	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	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	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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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

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	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	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	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	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	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
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	535.5
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	535.5
2018	5	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
2018	5	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
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	5	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	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	212.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	336.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	337.0
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	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	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
2018	6	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	6	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	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	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
2018	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
2018	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
2018	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
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	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN4	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
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

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	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	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
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	287.0
2018	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
2018	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
2018	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
2018	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
2018	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
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	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	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3
2018	7	56615	First Solar Project Development	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	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
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	8	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	8	57313	SolarCity Corporation	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	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	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	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2018	11	60420	BentonSun, LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	11	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	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	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

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	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	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
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	1,836.0	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	1,980.0	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	1,980.0	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	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	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
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
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	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	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN2	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
2018	12	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN3	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
2018	12	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	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
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	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	58763	LotusWorks-Summit Ridge I, 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

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	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	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	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	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Steam Turbine	NG	ST	(T) Regulatory approvals received. Not under construction	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	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IL	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
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	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	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
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	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	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
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	6	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	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	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	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	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(L) Regulatory approvals pending. Not under construction	42.0
2019	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	68SU 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	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	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	Magic Valley Wind Farm III LLC	TX	60362	MVIII	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
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	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
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	100.0	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 Steam Turbine	NG	ST	(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 Combustion Turbine	NG	GT	(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 Combustion Turbine	NG	GT	(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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	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	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	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
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	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	(L) Regulatory approvals pending. Not under construction	250.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	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	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	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	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	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	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

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	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	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	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	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
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	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	CCGS1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	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	CCGS2	97.0	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	CCGS4	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
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	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2023	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2027	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	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	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	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	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	6	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTA	23.0	Petroleum Liquids	DFO	GT
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTB	25.0	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	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.1	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2A	0.4	Petroleum Liquids	DFO	IC
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	4	103.8	Conventional Hydroelectric	WAT	HY
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	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

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	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
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	50.0	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	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

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	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	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	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	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	302.4	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	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	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	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	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

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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
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	44.1	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	28.4	Natural Gas Fired Combustion Turbine	NG	GT
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
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
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

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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
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	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	176.0	Conventional Steam Coal	SUB	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	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
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	167.8	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	GEN1	18.0	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	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	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	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
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT

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-April 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

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-April 2017

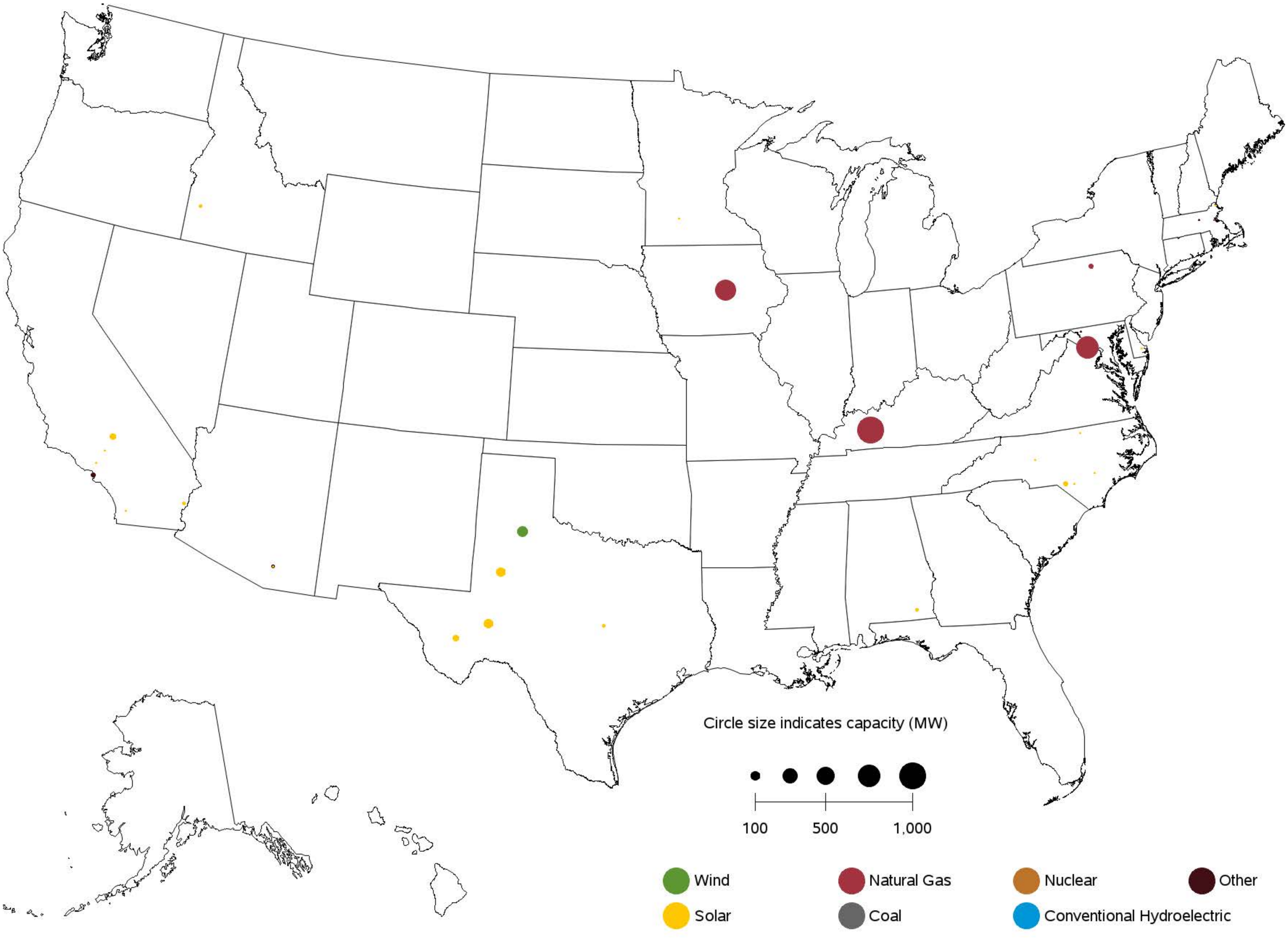
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	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%

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.

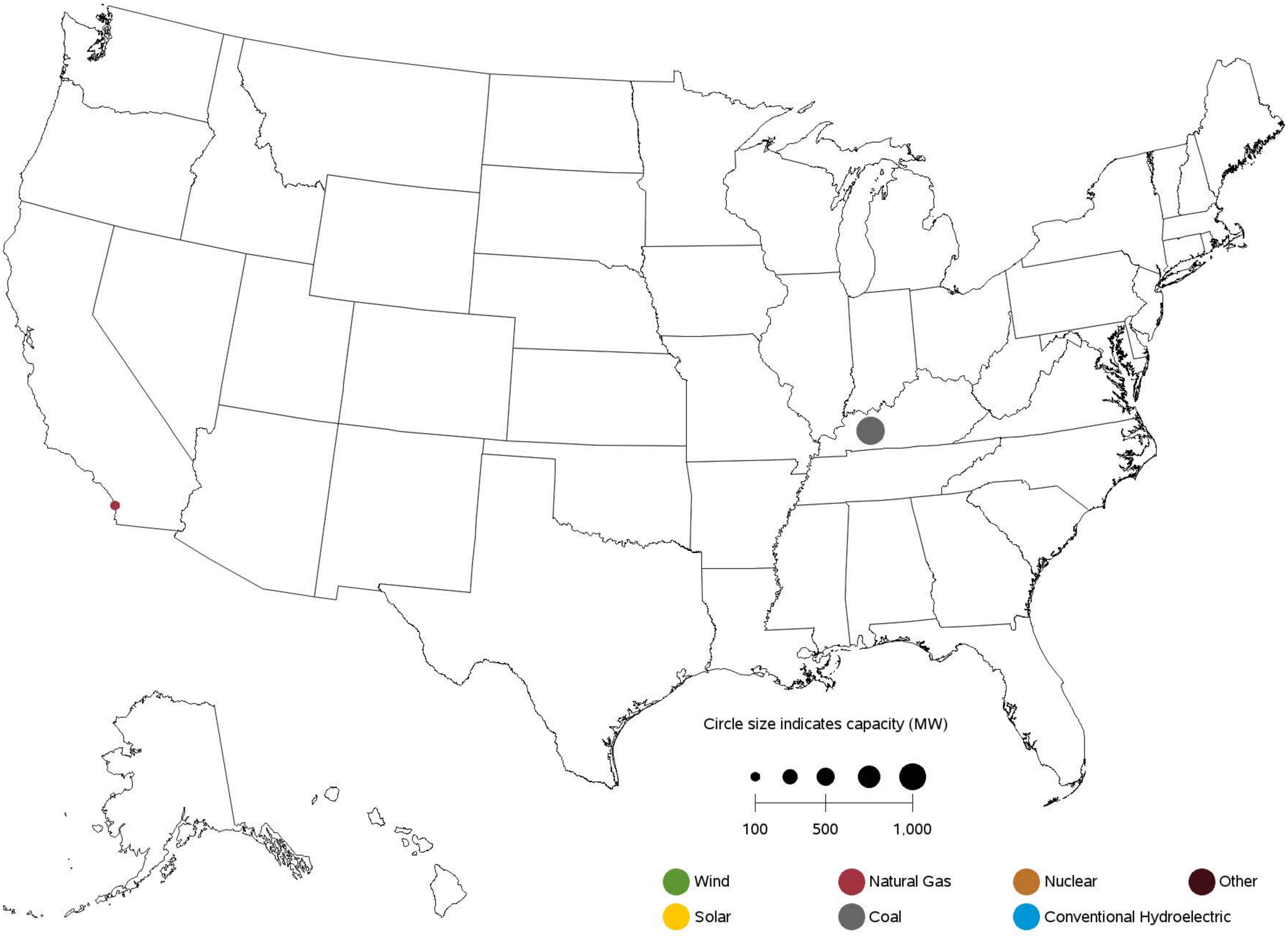
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



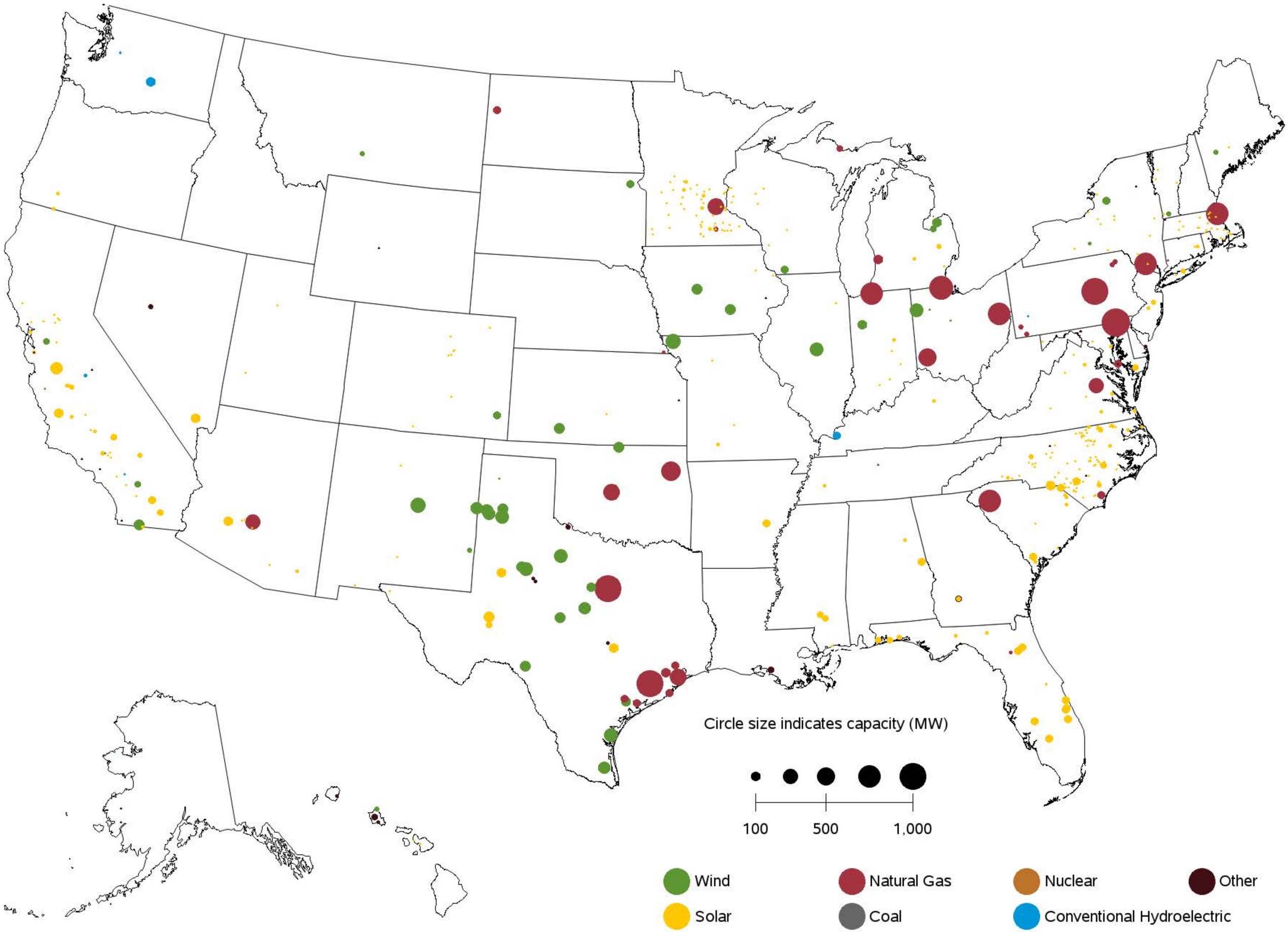
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



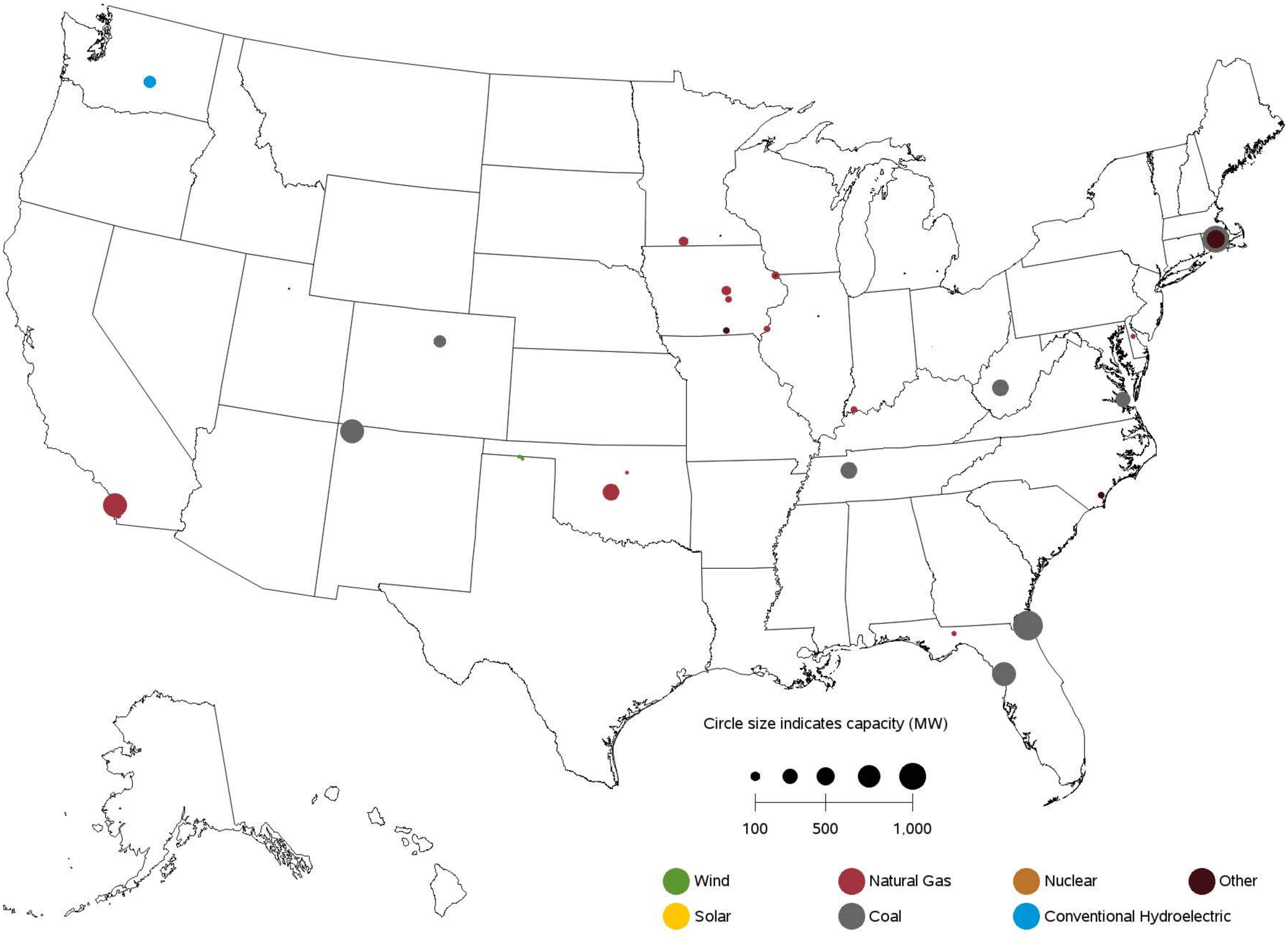
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from May 2017 to April 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 May 2017 to April 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, April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**9**	**25**	**0**	**4**	**0**	**0**	**9**
Connecticut	0	65	0	3	0	0	36
Maine	86	57	0	42	0	0	12
Massachusetts	0	33	0	5	0	0	24
New Hampshire	0	14	0	0	0	0	20
Rhode Island	0	53	0	21	0	0	0
Vermont	0	36	0	0	0	0	20
Middle Atlantic	**2**	**16**	**58**	**2**	**23**	**0**	**3**
New Jersey	0	57	0	6	0	0	70
New York	0	23	0	4	0	0	2
Pennsylvania	2	20	114	2	35	0	14
East North Central	**0**	**3**	**20**	**3**	**8**	**0**	**19**
Illinois	0	4	0	7	0	0	60
Indiana	1	2	0	4	13	0	35
Michigan	2	9	0	5	0	0	36
Ohio	1	4	37	2	21	0	31
Wisconsin	1	70	0	12	0	0	28
West North Central	**1**	**9**	**0**	**16**	**0**	**0**	**12**
Iowa	2	15	0	23	0	0	51
Kansas	11	13	0	20	0	0	0
Minnesota	6	33	0	24	0	0	47
Missouri	1	5	0	34	0	0	17
Nebraska	5	99	0	66	0	0	36
North Dakota	0	10	0	56	0	0	29
South Dakota	0	93	0	59	0	0	18
South Atlantic	**1**	**14**	**0**	**2**	**34**	**0**	**8**
Delaware	0	108	0	10	37	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	43
Georgia	2	41	0	6	0	0	14
Maryland	0	21	0	7	0	0	1
North Carolina	0	34	0	4	0	0	12
South Carolina	0	52	0	6	0	0	16
Virginia	6	41	0	5	0	0	21
West Virginia	1	0	0	22	0	0	19
East South Central	**1**	**7**	**0**	**3**	**24**	**0**	**5**
Alabama	0	35	0	4	36	0	7
Kentucky	3	7	0	1	0	0	12
Mississippi	0	76	0	5	0	0	0
Tennessee	0	0	0	2	0	0	7
West South Central	**0**	**27**	**0**	**2**	**4**	**0**	**9**
Arkansas	0	35	0	10	0	0	12
Louisiana	0	199	0	3	6	0	21
Oklahoma	0	20	0	5	0	0	13
Texas	0	11	0	3	5	0	24
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	5	0	1	0	0	8
Colorado	0	103	0	1	0	0	27
Idaho	142	0	0	29	0	0	15
Montana	6	31	0	44	0	0	14
Nevada	0	0	0	0	0	0	3
New Mexico	0	20	0	3	0	0	90
Utah	0	1	0	3	0	0	46
Wyoming	3	1	0	20	0	0	42
Pacific Contiguous	**0**	**15**	**0**	**2**	**2**	**0**	**2**
California	0	15	0	1	2	0	5
Oregon	0	9,204	0	18	0	0	5
Washington	0	41	0	13	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**40**	**0**	**0**	**32**
Alaska	52	4	0	40	0	0	33
Hawaii	0	1	0	0	0	0	105
U.S. Total	**0**	**3**	**10**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, April 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**	**11**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	49	15	0	0	2
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	12	7	0	2	4
New Hampshire	0	0	0	0	22	0	0	5
Rhode Island	0	0	0	78	8	0	0	19
Vermont	0	0	0	33	16	0	0	14
Middle Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	23	3	0	2	1
Pennsylvania	0	0	0	36	4	0	0	1
East North Central	**0**	**0**	**0**	**15**	**2**	**0**	**3**	**0**
Illinois	0	0	0	28	3	0	0	0
Indiana	0	0	0	19	4	0	0	1
Michigan	0	0	0	59	5	0	13	1
Ohio	0	0	0	33	4	0	0	1
Wisconsin	0	0	0	93	8	0	45	3
West North Central	**0**	**0**	**0**	**11**	**2**	**0**	**5**	**1**
Iowa	0	0	0	163	3	0	0	2
Kansas	0	0	0	0	2	0	0	3
Minnesota	0	0	0	12	3	0	4	4
Missouri	0	0	0	45	6	0	0	1
Nebraska	0	0	0	79	5	0	0	4
North Dakota	0	0	0	0	3	0	55	2
South Dakota	0	0	0	263	7	0	0	11
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	43	34	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	7	4	0	1	1
Georgia	0	0	0	7	4	0	23	2
Maryland	0	0	0	20	8	0	0	2
North Carolina	0	0	0	5	4	0	0	1
South Carolina	0	0	0	60	7	0	0	1
Virginia	0	0	0	22	10	0	0	2
West Virginia	0	0	0	0	6	0	0	1
East South Central	**0**	**0**	**0**	**20**	**4**	**0**	**0**	**1**
Alabama	0	0	0	28	5	0	0	1
Kentucky	0	0	0	0	19	0	0	2
Mississippi	0	0	0	149	5	0	0	4
Tennessee	0	0	0	30	8	0	0	1
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**4**	**1**
Arkansas	0	0	0	20	6	0	0	4
Louisiana	0	0	0	0	6	0	6	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	2	0	5	1
Mountain	**0**	**4**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	12	3	0	0	2
Idaho	0	18	0	14	5	0	0	10
Montana	0	0	0	0	7	0	0	7
Nevada	0	5	0	4	3	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	8	0	8	6	0	0	2
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	2
Oregon	0	11	0	26	4	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**11**	**0**	**17**	**8**	**0**	**0**	**6**
Alaska	0	0	0	0	20	0	0	19
Hawaii	0	11	0	17	9	0	0	2
U.S. Total	**0**	**2**	**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 April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**9**	**25**	**0**	**4**	**0**	**0**	**9**
Connecticut	0	65	0	3	0	0	36
Maine	86	57	0	42	0	0	12
Massachusetts	0	33	0	5	0	0	24
New Hampshire	0	14	0	0	0	0	20
Rhode Island	0	53	0	21	0	0	0
Vermont	0	36	0	0	0	0	20
Middle Atlantic	**2**	**16**	**58**	**2**	**23**	**0**	**3**
New Jersey	0	57	0	6	0	0	70
New York	0	23	0	4	0	0	2
Pennsylvania	2	20	114	2	35	0	14
East North Central	**0**	**3**	**20**	**3**	**8**	**0**	**19**
Illinois	0	4	0	7	0	0	60
Indiana	1	2	0	4	13	0	35
Michigan	2	9	0	5	0	0	36
Ohio	1	4	37	2	21	0	31
Wisconsin	1	70	0	12	0	0	28
West North Central	**1**	**9**	**0**	**16**	**0**	**0**	**12**
Iowa	2	15	0	23	0	0	51
Kansas	11	13	0	20	0	0	0
Minnesota	6	33	0	24	0	0	47
Missouri	1	5	0	34	0	0	17
Nebraska	5	99	0	66	0	0	36
North Dakota	0	10	0	56	0	0	29
South Dakota	0	93	0	59	0	0	18
South Atlantic	**1**	**14**	**0**	**2**	**34**	**0**	**8**
Delaware	0	108	0	10	37	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	43
Georgia	2	41	0	6	0	0	14
Maryland	0	21	0	7	0	0	1
North Carolina	0	34	0	4	0	0	12
South Carolina	0	52	0	6	0	0	16
Virginia	6	41	0	5	0	0	21
West Virginia	1	0	0	22	0	0	19
East South Central	**1**	**7**	**0**	**3**	**24**	**0**	**5**
Alabama	0	35	0	4	36	0	7
Kentucky	3	7	0	1	0	0	12
Mississippi	0	76	0	5	0	0	0
Tennessee	0	0	0	2	0	0	7
West South Central	**0**	**27**	**0**	**2**	**4**	**0**	**9**
Arkansas	0	35	0	10	0	0	12
Louisiana	0	199	0	3	6	0	21
Oklahoma	0	20	0	5	0	0	13
Texas	0	11	0	3	5	0	24
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	5	0	1	0	0	8
Colorado	0	103	0	1	0	0	27
Idaho	142	0	0	29	0	0	15
Montana	6	31	0	44	0	0	14
Nevada	0	0	0	0	0	0	3
New Mexico	0	20	0	3	0	0	90
Utah	0	1	0	3	0	0	46
Wyoming	3	1	0	20	0	0	42
Pacific Contiguous	**0**	**15**	**0**	**2**	**2**	**0**	**2**
California	0	15	0	1	2	0	5
Oregon	0	9,204	0	18	0	0	5
Washington	0	41	0	13	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**40**	**0**	**0**	**32**
Alaska	52	4	0	40	0	0	33
Hawaii	0	1	0	0	0	0	105
U.S. Total	**0**	**3**	**10**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through April 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**	**11**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	49	15	0	0	2
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	12	7	0	2	4
New Hampshire	0	0	0	0	22	0	0	5
Rhode Island	0	0	0	78	8	0	0	19
Vermont	0	0	0	33	16	0	0	14
Middle Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	23	3	0	2	1
Pennsylvania	0	0	0	36	4	0	0	1
East North Central	**0**	**0**	**0**	**15**	**2**	**0**	**3**	**0**
Illinois	0	0	0	28	3	0	0	0
Indiana	0	0	0	19	4	0	0	1
Michigan	0	0	0	59	5	0	13	1
Ohio	0	0	0	33	4	0	0	1
Wisconsin	0	0	0	93	8	0	45	3
West North Central	**0**	**0**	**0**	**11**	**2**	**0**	**5**	**1**
Iowa	0	0	0	163	3	0	0	2
Kansas	0	0	0	0	2	0	0	3
Minnesota	0	0	0	12	3	0	4	4
Missouri	0	0	0	45	6	0	0	1
Nebraska	0	0	0	79	5	0	0	4
North Dakota	0	0	0	0	3	0	55	2
South Dakota	0	0	0	263	7	0	0	11
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	43	34	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	7	4	0	1	1
Georgia	0	0	0	7	4	0	23	2
Maryland	0	0	0	20	8	0	0	2
North Carolina	0	0	0	5	4	0	0	1
South Carolina	0	0	0	60	7	0	0	1
Virginia	0	0	0	22	10	0	0	2
West Virginia	0	0	0	0	6	0	0	1
East South Central	**0**	**0**	**0**	**20**	**4**	**0**	**0**	**1**
Alabama	0	0	0	28	5	0	0	1
Kentucky	0	0	0	0	19	0	0	2
Mississippi	0	0	0	149	5	0	0	4
Tennessee	0	0	0	30	8	0	0	1
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**4**	**1**
Arkansas	0	0	0	20	6	0	0	4
Louisiana	0	0	0	0	6	0	6	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	2	0	5	1
Mountain	**0**	**4**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	12	3	0	0	2
Idaho	0	18	0	14	5	0	0	10
Montana	0	0	0	0	7	0	0	7
Nevada	0	5	0	4	3	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	8	0	8	6	0	0	2
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	2
Oregon	0	11	0	26	4	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**11**	**0**	**17**	**8**	**0**	**0**	**6**
Alaska	0	0	0	0	20	0	0	19
Hawaii	0	11	0	17	9	0	0	2
U.S. Total	**0**	**2**	**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, April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**17**	**0**	**111**	**0**	**0**	**21**
Connecticut	0	31	0	0	0	0	23
Maine	0	0	0	0	0	0	0
Massachusetts	0	128	0	134	0	0	49
New Hampshire	0	10	0	0	0	0	38
Rhode Island	0	0	0	0	0	0	0
Vermont	0	36	0	0	0	0	32
Middle Atlantic	**0**	**60**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	295	0	0	0	0	0
New York	0	61	0	9	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**4**	**0**	**5**	**0**	**0**	**20**
Illinois	0	42	0	106	0	0	155
Indiana	1	2	0	5	0	0	35
Michigan	2	10	0	14	0	0	37
Ohio	3	3	0	4	0	0	43
Wisconsin	0	72	0	14	0	0	30
West North Central	**1**	**9**	**0**	**17**	**0**	**0**	**13**
Iowa	2	15	0	27	0	0	51
Kansas	11	13	0	20	0	0	0
Minnesota	6	41	0	28	0	0	64
Missouri	1	5	0	43	0	0	17
Nebraska	5	99	0	66	0	0	36
North Dakota	0	10	0	57	0	0	29
South Dakota	0	94	0	59	0	0	18
South Atlantic	**1**	**14**	**0**	**1**	**0**	**0**	**9**
Delaware	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	43
Georgia	2	38	0	5	0	0	14
Maryland	0	152	0	0	0	0	0
North Carolina	0	36	0	4	0	0	12
South Carolina	0	57	0	7	0	0	16
Virginia	6	48	0	8	0	0	21
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**5**	**0**	**3**	**0**	**0**	**5**
Alabama	0	21	0	7	0	0	7
Kentucky	3	7	0	0	0	0	12
Mississippi	0	82	0	5	0	0	0
Tennessee	0	0	0	2	0	0	7
West South Central	**0**	**41**	**0**	**6**	**0**	**0**	**9**
Arkansas	0	43	0	39	0	0	12
Louisiana	0	199	0	7	0	0	0
Oklahoma	0	21	0	8	0	0	13
Texas	0	12	0	10	0	0	25
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	5	0	1	0	0	8
Colorado	0	104	0	1	0	0	29
Idaho	0	0	0	40	0	0	15
Montana	0	865	0	50	0	0	14
Nevada	0	0	0	0	0	0	0
New Mexico	0	20	0	4	0	0	90
Utah	0	1	0	4	0	0	46
Wyoming	3	1	0	104	0	0	42
Pacific Contiguous	**0**	**23**	**0**	**4**	**0**	**0**	**2**
California	0	21	0	1	0	0	5
Oregon	0	9,204	0	29	0	0	5
Washington	0	777	0	15	0	0	1
Pacific Noncontiguous	**77**	**1**	**0**	**43**	**0**	**0**	**33**
Alaska	77	4	0	43	0	0	33
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**3**	**0**	**2**	**0**	**0**	**2**

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

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

Electric Utilities by Census Division and State, April 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**	**43**	**10**	**0**	**0**	**17**
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	58	34	0	0	50
New Hampshire	0	0	0	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	54	12	0	0	17
Middle Atlantic	**0**	**0**	**0**	**37**	**37**	**0**	**0**	**2**
New Jersey	0	0	0	37	37	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**	**29**	**7**	**0**	**3**	**1**
Illinois	0	0	0	0	23	0	0	8
Indiana	0	0	0	34	22	0	0	1
Michigan	0	0	0	59	8	0	0	2
Ohio	0	0	0	97	63	0	0	2
Wisconsin	0	0	0	0	14	0	28	4
West North Central	**0**	**0**	**0**	**119**	**2**	**0**	**9**	**1**
Iowa	0	0	0	163	3	0	0	3
Kansas	0	0	0	0	6	0	0	5
Minnesota	0	0	0	173	7	0	0	5
Missouri	0	0	0	0	69	0	0	1
Nebraska	0	0	0	0	19	0	0	5
North Dakota	0	0	0	0	6	0	55	3
South Dakota	0	0	0	0	12	0	0	14
South Atlantic	**0**	**0**	**0**	**7**	**11**	**0**	**0**	**1**
Delaware	0	0	0	118	118	0	0	88
Florida	0	0	0	6	6	0	0	1
Georgia	0	0	0	17	17	0	0	2
Maryland	0	0	0	102	102	0	0	99
North Carolina	0	0	0	17	17	0	0	1
South Carolina	0	0	0	0	10	0	0	1
Virginia	0	0	0	34	26	0	0	3
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**46**	**38**	**0**	**0**	**1**
Alabama	0	0	0	81	81	0	0	2
Kentucky	0	0	0	0	42	0	0	2
Mississippi	0	0	0	0	0	0	0	5
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**85**	**7**	**0**	**0**	**3**
Arkansas	0	0	0	263	263	0	0	5
Louisiana	0	0	0	0	0	0	0	4
Oklahoma	0	0	0	0	7	0	0	5
Texas	0	0	0	0	23	0	0	5
Mountain	**0**	**11**	**0**	**10**	**6**	**0**	**0**	**1**
Arizona	0	0	0	11	11	0	0	1
Colorado	0	0	0	0	30	0	0	2
Idaho	0	0	0	0	126	0	0	14
Montana	0	0	0	0	21	0	0	13
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	23	23	0	0	1
Utah	0	11	0	0	11	0	0	2
Wyoming	0	0	0	0	7	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**14**	**3**	**0**	**0**	**1**
California	0	0	0	14	5	0	0	3
Oregon	0	0	0	119	5	0	0	5
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**17**	**0**	**0**	**9**
Alaska	0	0	0	0	29	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**5**	**2**	**0**	**3**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**17**	**0**	**111**	**0**	**0**	**21**
Connecticut	0	31	0	0	0	0	23
Maine	0	0	0	0	0	0	0
Massachusetts	0	128	0	134	0	0	49
New Hampshire	0	10	0	0	0	0	38
Rhode Island	0	0	0	0	0	0	0
Vermont	0	36	0	0	0	0	32
Middle Atlantic	**0**	**60**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	295	0	0	0	0	0
New York	0	61	0	9	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**4**	**0**	**5**	**0**	**0**	**20**
Illinois	0	42	0	106	0	0	155
Indiana	1	2	0	5	0	0	35
Michigan	2	10	0	14	0	0	37
Ohio	3	3	0	4	0	0	43
Wisconsin	0	72	0	14	0	0	30
West North Central	**1**	**9**	**0**	**17**	**0**	**0**	**13**
Iowa	2	15	0	27	0	0	51
Kansas	11	13	0	20	0	0	0
Minnesota	6	41	0	28	0	0	64
Missouri	1	5	0	43	0	0	17
Nebraska	5	99	0	66	0	0	36
North Dakota	0	10	0	57	0	0	29
South Dakota	0	94	0	59	0	0	18
South Atlantic	**1**	**14**	**0**	**1**	**0**	**0**	**9**
Delaware	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	43
Georgia	2	38	0	5	0	0	14
Maryland	0	152	0	0	0	0	0
North Carolina	0	36	0	4	0	0	12
South Carolina	0	57	0	7	0	0	16
Virginia	6	48	0	8	0	0	21
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**5**	**0**	**3**	**0**	**0**	**5**
Alabama	0	21	0	7	0	0	7
Kentucky	3	7	0	0	0	0	12
Mississippi	0	82	0	5	0	0	0
Tennessee	0	0	0	2	0	0	7
West South Central	**0**	**41**	**0**	**6**	**0**	**0**	**9**
Arkansas	0	43	0	39	0	0	12
Louisiana	0	199	0	7	0	0	0
Oklahoma	0	21	0	8	0	0	13
Texas	0	12	0	10	0	0	25
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	5	0	1	0	0	8
Colorado	0	104	0	1	0	0	29
Idaho	0	0	0	40	0	0	15
Montana	0	865	0	50	0	0	14
Nevada	0	0	0	0	0	0	0
New Mexico	0	20	0	4	0	0	90
Utah	0	1	0	4	0	0	46
Wyoming	3	1	0	104	0	0	42
Pacific Contiguous	**0**	**23**	**0**	**4**	**0**	**0**	**2**
California	0	21	0	1	0	0	5
Oregon	0	9,204	0	29	0	0	5
Washington	0	777	0	15	0	0	1
Pacific Noncontiguous	**77**	**1**	**0**	**43**	**0**	**0**	**33**
Alaska	77	4	0	43	0	0	33
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**3**	**0**	**2**	**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 April 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**	**43**	**10**	**0**	**0**	**17**
Connecticut	0	0	0	0	0	0	0	13
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	58	34	0	0	50
New Hampshire	0	0	0	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	54	12	0	0	17
Middle Atlantic	**0**	**0**	**0**	**37**	**37**	**0**	**0**	**2**
New Jersey	0	0	0	37	37	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**	**29**	**7**	**0**	**3**	**1**
Illinois	0	0	0	0	23	0	0	8
Indiana	0	0	0	34	22	0	0	1
Michigan	0	0	0	59	8	0	0	2
Ohio	0	0	0	97	63	0	0	2
Wisconsin	0	0	0	0	14	0	28	4
West North Central	**0**	**0**	**0**	**119**	**2**	**0**	**9**	**1**
Iowa	0	0	0	163	3	0	0	3
Kansas	0	0	0	0	6	0	0	5
Minnesota	0	0	0	173	7	0	0	5
Missouri	0	0	0	0	69	0	0	1
Nebraska	0	0	0	0	19	0	0	5
North Dakota	0	0	0	0	6	0	55	3
South Dakota	0	0	0	0	12	0	0	14
South Atlantic	**0**	**0**	**0**	**7**	**11**	**0**	**0**	**1**
Delaware	0	0	0	118	118	0	0	88
Florida	0	0	0	6	6	0	0	1
Georgia	0	0	0	17	17	0	0	2
Maryland	0	0	0	102	102	0	0	99
North Carolina	0	0	0	17	17	0	0	1
South Carolina	0	0	0	0	10	0	0	1
Virginia	0	0	0	34	26	0	0	3
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**46**	**38**	**0**	**0**	**1**
Alabama	0	0	0	81	81	0	0	2
Kentucky	0	0	0	0	42	0	0	2
Mississippi	0	0	0	0	0	0	0	5
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**85**	**7**	**0**	**0**	**3**
Arkansas	0	0	0	263	263	0	0	5
Louisiana	0	0	0	0	0	0	0	4
Oklahoma	0	0	0	0	7	0	0	5
Texas	0	0	0	0	23	0	0	5
Mountain	**0**	**11**	**0**	**10**	**6**	**0**	**0**	**1**
Arizona	0	0	0	11	11	0	0	1
Colorado	0	0	0	0	30	0	0	2
Idaho	0	0	0	0	126	0	0	14
Montana	0	0	0	0	21	0	0	13
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	23	23	0	0	1
Utah	0	11	0	0	11	0	0	2
Wyoming	0	0	0	0	7	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**14**	**3**	**0**	**0**	**1**
California	0	0	0	14	5	0	0	3
Oregon	0	0	0	119	5	0	0	5
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**17**	**0**	**0**	**9**
Alaska	0	0	0	0	29	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**5**	**2**	**0**	**3**	**1**

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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, April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**47**	**0**	**4**	**0**	**0**	**10**
Connecticut	0	71	0	3	0	0	41
Maine	0	41	0	52	0	0	13
Massachusetts	0	59	0	5	0	0	28
New Hampshire	0	945	0	0	0	0	23
Rhode Island	0	152	0	21	0	0	0
Vermont	0	0	0	0	0	0	25
Middle Atlantic	**2**	**20**	**0**	**2**	**0**	**0**	**12**
New Jersey	0	58	0	6	0	0	70
New York	0	53	0	4	0	0	12
Pennsylvania	2	21	0	2	0	0	15
East North Central	**0**	**4**	**37**	**1**	**11**	**0**	**47**
Illinois	0	2	0	6	0	0	55
Indiana	0	0	0	8	0	0	0
Michigan	0	0	0	2	0	0	140
Ohio	0	6	37	2	28	0	46
Wisconsin	0	0	0	0	0	0	143
West North Central	**0**	**24**	**0**	**40**	**0**	**0**	**90**
Iowa	0	69	0	3,193	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	22	0	46	0	0	103
Missouri	0	0	0	66	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**39**	**0**	**5**	**0**	**0**	**4**
Delaware	0	108	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	197	0	19	0	0	0
Georgia	0	165	0	14	0	0	83
Maryland	0	24	0	7	0	0	1
North Carolina	0	83	0	17	0	0	80
South Carolina	0	0	0	7	0	0	68
Virginia	0	50	0	3	0	0	53
West Virginia	5	0	0	50	0	0	37
East South Central	**0**	**62**	**0**	**4**	**0**	**0**	**230**
Alabama	0	97	0	4	0	0	0
Kentucky	0	0	0	0	0	0	230
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**18**	**0**	**2**	**4**	**0**	**20**
Arkansas	0	0	0	2	0	0	58
Louisiana	0	0	0	3	0	0	21
Oklahoma	0	0	0	0	0	0	0
Texas	0	18	0	3	4	0	0
Mountain	**5**	**5**	**0**	**3**	**0**	**0**	**37**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	5	0	0	83
Idaho	0	0	0	46	0	0	47
Montana	6	11	0	34	0	0	116
Nevada	0	0	0	0	0	0	165
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**	**8**	**0**	**3**	**0**	**0**	**24**
California	0	0	0	2	0	0	27
Oregon	0	0	0	8	0	0	82
Washington	0	65	0	25	0	0	73
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	81	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**4**	**26**	**1**	**6**	**0**	**7**

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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, April 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**	**12**	**8**	**0**	**1**	**2**
Connecticut	0	0	0	53	15	0	0	2
Maine	0	0	0	0	10	0	0	10
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	23	0	0	5
Rhode Island	0	0	0	78	8	0	0	19
Vermont	0	0	0	40	35	0	0	20
Middle Atlantic	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	12	8	0	0	3
New York	0	0	0	23	4	0	0	2
Pennsylvania	0	0	0	40	4	0	0	1
East North Central	**0**	**0**	**0**	**17**	**2**	**0**	**18**	**0**
Illinois	0	0	0	29	3	0	0	0
Indiana	0	0	0	23	4	0	0	3
Michigan	0	0	0	0	7	0	35	2
Ohio	0	0	0	35	4	0	0	1
Wisconsin	0	0	0	93	11	0	0	2
West North Central	**0**	**0**	**0**	**11**	**2**	**0**	**0**	**2**
Iowa	0	0	0	0	4	0	0	3
Kansas	0	0	0	0	2	0	0	2
Minnesota	0	0	0	12	4	0	0	5
Missouri	0	0	0	46	6	0	0	17
Nebraska	0	0	0	79	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	263	8	0	0	8
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**3**
Delaware	0	0	0	47	38	0	0	10
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	41	5	0	1	12
Georgia	0	0	0	8	8	0	0	12
Maryland	0	0	0	21	9	0	0	2
North Carolina	0	0	0	5	4	0	0	7
South Carolina	0	0	0	60	40	0	0	9
Virginia	0	0	0	29	19	0	0	3
West Virginia	0	0	0	0	6	0	0	4
East South Central	**0**	**0**	**0**	**22**	**15**	**0**	**0**	**3**
Alabama	0	0	0	30	19	0	0	4
Kentucky	0	0	0	0	0	0	0	21
Mississippi	0	0	0	149	96	0	0	0
Tennessee	0	0	0	31	23	0	0	21
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	34	0	0	2
Louisiana	0	0	0	0	47	0	0	3
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**5**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	2
Colorado	0	0	0	12	3	0	0	3
Idaho	0	18	0	14	6	0	0	12
Montana	0	0	0	0	8	0	0	5
Nevada	0	5	0	4	3	0	0	2
New Mexico	0	0	0	11	5	0	0	3
Utah	0	11	0	8	7	0	0	6
Wyoming	0	0	0	0	7	0	0	5
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	2	0	2	2	0	0	2
Oregon	0	11	0	26	4	0	0	5
Washington	0	0	0	0	6	0	0	10
Pacific Noncontiguous	**0**	**11**	**0**	**24**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	41	0	0	49
Hawaii	0	11	0	24	11	0	0	3
U.S. Total	**0**	**2**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**47**	**0**	**4**	**0**	**0**	**10**
Connecticut	0	71	0	3	0	0	41
Maine	0	41	0	52	0	0	13
Massachusetts	0	59	0	5	0	0	28
New Hampshire	0	945	0	0	0	0	23
Rhode Island	0	152	0	21	0	0	0
Vermont	0	0	0	0	0	0	25
Middle Atlantic	**2**	**20**	**0**	**2**	**0**	**0**	**12**
New Jersey	0	58	0	6	0	0	70
New York	0	53	0	4	0	0	12
Pennsylvania	2	21	0	2	0	0	15
East North Central	**0**	**4**	**37**	**1**	**11**	**0**	**47**
Illinois	0	2	0	6	0	0	55
Indiana	0	0	0	8	0	0	0
Michigan	0	0	0	2	0	0	140
Ohio	0	6	37	2	28	0	46
Wisconsin	0	0	0	0	0	0	143
West North Central	**0**	**24**	**0**	**40**	**0**	**0**	**90**
Iowa	0	69	0	3,193	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	22	0	46	0	0	103
Missouri	0	0	0	66	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**39**	**0**	**5**	**0**	**0**	**4**
Delaware	0	108	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	197	0	19	0	0	0
Georgia	0	165	0	14	0	0	83
Maryland	0	24	0	7	0	0	1
North Carolina	0	83	0	17	0	0	80
South Carolina	0	0	0	7	0	0	68
Virginia	0	50	0	3	0	0	53
West Virginia	5	0	0	50	0	0	37
East South Central	**0**	**62**	**0**	**4**	**0**	**0**	**230**
Alabama	0	97	0	4	0	0	0
Kentucky	0	0	0	0	0	0	230
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**18**	**0**	**2**	**4**	**0**	**20**
Arkansas	0	0	0	2	0	0	58
Louisiana	0	0	0	3	0	0	21
Oklahoma	0	0	0	0	0	0	0
Texas	0	18	0	3	4	0	0
Mountain	**5**	**5**	**0**	**3**	**0**	**0**	**37**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	5	0	0	83
Idaho	0	0	0	46	0	0	47
Montana	6	11	0	34	0	0	116
Nevada	0	0	0	0	0	0	165
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**	**8**	**0**	**3**	**0**	**0**	**24**
California	0	0	0	2	0	0	27
Oregon	0	0	0	8	0	0	82
Washington	0	65	0	25	0	0	73
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	81	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**4**	**26**	**1**	**6**	**0**	**7**

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

Independent Power Producers by Census Division and State, Year-to-Date through April 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**	**12**	**8**	**0**	**1**	**2**
Connecticut	0	0	0	53	15	0	0	2
Maine	0	0	0	0	10	0	0	10
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	23	0	0	5
Rhode Island	0	0	0	78	8	0	0	19
Vermont	0	0	0	40	35	0	0	20
Middle Atlantic	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	12	8	0	0	3
New York	0	0	0	23	4	0	0	2
Pennsylvania	0	0	0	40	4	0	0	1
East North Central	**0**	**0**	**0**	**17**	**2**	**0**	**18**	**0**
Illinois	0	0	0	29	3	0	0	0
Indiana	0	0	0	23	4	0	0	3
Michigan	0	0	0	0	7	0	35	2
Ohio	0	0	0	35	4	0	0	1
Wisconsin	0	0	0	93	11	0	0	2
West North Central	**0**	**0**	**0**	**11**	**2**	**0**	**0**	**2**
Iowa	0	0	0	0	4	0	0	3
Kansas	0	0	0	0	2	0	0	2
Minnesota	0	0	0	12	4	0	0	5
Missouri	0	0	0	46	6	0	0	17
Nebraska	0	0	0	79	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	263	8	0	0	8
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**3**
Delaware	0	0	0	47	38	0	0	10
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	41	5	0	1	12
Georgia	0	0	0	8	8	0	0	12
Maryland	0	0	0	21	9	0	0	2
North Carolina	0	0	0	5	4	0	0	7
South Carolina	0	0	0	60	40	0	0	9
Virginia	0	0	0	29	19	0	0	3
West Virginia	0	0	0	0	6	0	0	4
East South Central	**0**	**0**	**0**	**22**	**15**	**0**	**0**	**3**
Alabama	0	0	0	30	19	0	0	4
Kentucky	0	0	0	0	0	0	0	21
Mississippi	0	0	0	149	96	0	0	0
Tennessee	0	0	0	31	23	0	0	21
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	34	0	0	2
Louisiana	0	0	0	0	47	0	0	3
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**5**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	2
Colorado	0	0	0	12	3	0	0	3
Idaho	0	18	0	14	6	0	0	12
Montana	0	0	0	0	8	0	0	5
Nevada	0	5	0	4	3	0	0	2
New Mexico	0	0	0	11	5	0	0	3
Utah	0	11	0	8	7	0	0	6
Wyoming	0	0	0	0	7	0	0	5
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	2	0	2	2	0	0	2
Oregon	0	11	0	26	4	0	0	5
Washington	0	0	0	0	6	0	0	10
Pacific Noncontiguous	**0**	**11**	**0**	**24**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	41	0	0	49
Hawaii	0	11	0	24	11	0	0	3
U.S. Total	**0**	**2**	**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, April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**17**	**0**	**27**	**0**	**0**	**0**
Connecticut	0	1,447	0	36	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	32	0	47	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**41**	**0**	**25**	**0**	**0**	**0**
New Jersey	0	0	0	22	0	0	0
New York	0	50	0	39	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**103**	**2**	**0**	**13**	**0**	**0**	**0**
Illinois	134	0	0	52	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	12	0	0	0
West North Central	**0**	**38**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	5	0	0	0
Minnesota	0	41	0	14	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	592	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	13	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**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**	**32**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	122	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	33	0	0	0
Mountain	**0**	**0**	**0**	**11**	**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	45	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**21**	**0**	**5**	**0**	**0**	**0**
California	0	31	0	5	0	0	0
Oregon	0	0	0	42	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**84**	**5**	**0**	**0**	**0**	**0**	**159**
Alaska	84	143	0	0	0	0	159
Hawaii	0	0	0	0	0	0	0
U.S. Total	**37**	**15**	**0**	**6**	**0**	**0**	**91**

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, April 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**	**59**	**2**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	36
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	59	7	0	0	38
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**24**	**7**	**0**	**5**	**10**
New Jersey	0	0	0	25	13	0	0	9
New York	0	0	0	158	12	0	10	20
Pennsylvania	0	0	0	136	13	0	0	5
East North Central	**0**	**0**	**0**	**172**	**8**	**0**	**0**	**10**
Illinois	0	0	0	0	134	0	0	48
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	7
Ohio	0	0	0	172	32	0	0	2
Wisconsin	0	0	0	0	32	0	0	16
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**58**	**6**
Iowa	0	0	0	0	52	0	0	7
Minnesota	0	0	0	0	52	0	58	21
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	592
South Atlantic	**0**	**0**	**0**	**29**	**11**	**0**	**0**	**4**
Delaware	0	0	0	186	30	0	0	30
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	141	51	0	0	35
Georgia	0	0	0	166	166	0	0	108
Maryland	0	0	0	118	99	0	0	3
North Carolina	0	0	0	31	31	0	0	22
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	6	0	0	3
East South Central	**0**	**0**	**0**	**154**	**154**	**0**	**0**	**9**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	154	154	0	0	9
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	122
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	28
Mountain	**0**	**0**	**0**	**33**	**27**	**0**	**0**	**11**
Arizona	0	0	0	67	67	0	0	10
Colorado	0	0	0	79	79	0	0	55
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	41	41	0	0	24
New Mexico	0	0	0	0	213	0	0	44
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**29**	**11**	**0**	**0**	**5**
California	0	0	0	29	11	0	0	5
Oregon	0	0	0	0	66	0	0	36
Washington	0	0	0	0	113	0	0	46
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**28**
Alaska	0	0	0	0	0	0	0	74
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**4**	**0**	**2**	**4**

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 April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**17**	**0**	**27**	**0**	**0**	**0**
Connecticut	0	1,447	0	36	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	32	0	47	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**41**	**0**	**25**	**0**	**0**	**0**
New Jersey	0	0	0	22	0	0	0
New York	0	50	0	39	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**103**	**2**	**0**	**13**	**0**	**0**	**0**
Illinois	134	0	0	52	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	12	0	0	0
West North Central	**0**	**38**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	5	0	0	0
Minnesota	0	41	0	14	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	592	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	13	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**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**	**32**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	122	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	33	0	0	0
Mountain	**0**	**0**	**0**	**11**	**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	45	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**21**	**0**	**5**	**0**	**0**	**0**
California	0	31	0	5	0	0	0
Oregon	0	0	0	42	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**84**	**5**	**0**	**0**	**0**	**0**	**159**
Alaska	84	143	0	0	0	0	159
Hawaii	0	0	0	0	0	0	0
U.S. Total	**37**	**15**	**0**	**6**	**0**	**0**	**91**

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 April 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**	**59**	**2**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	36
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	59	7	0	0	38
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**24**	**7**	**0**	**5**	**10**
New Jersey	0	0	0	25	13	0	0	9
New York	0	0	0	158	12	0	10	20
Pennsylvania	0	0	0	136	13	0	0	5
East North Central	**0**	**0**	**0**	**172**	**8**	**0**	**0**	**10**
Illinois	0	0	0	0	134	0	0	48
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	7
Ohio	0	0	0	172	32	0	0	2
Wisconsin	0	0	0	0	32	0	0	16
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**58**	**6**
Iowa	0	0	0	0	52	0	0	7
Minnesota	0	0	0	0	52	0	58	21
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	592
South Atlantic	**0**	**0**	**0**	**29**	**11**	**0**	**0**	**4**
Delaware	0	0	0	186	30	0	0	30
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	141	51	0	0	35
Georgia	0	0	0	166	166	0	0	108
Maryland	0	0	0	118	99	0	0	3
North Carolina	0	0	0	31	31	0	0	22
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	6	0	0	3
East South Central	**0**	**0**	**0**	**154**	**154**	**0**	**0**	**9**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	154	154	0	0	9
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	122
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	28
Mountain	**0**	**0**	**0**	**33**	**27**	**0**	**0**	**11**
Arizona	0	0	0	67	67	0	0	10
Colorado	0	0	0	79	79	0	0	55
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	41	41	0	0	24
New Mexico	0	0	0	0	213	0	0	44
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**29**	**11**	**0**	**0**	**5**
California	0	0	0	29	11	0	0	5
Oregon	0	0	0	0	66	0	0	36
Washington	0	0	0	0	113	0	0	46
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**28**
Alaska	0	0	0	0	0	0	0	74
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**4**	**0**	**2**	**4**

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, April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**187**	**97**	**0**	**21**	**0**	**0**	**30**
Connecticut	0	0	0	21	0	0	0
Maine	187	97	0	58	0	0	30
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**22**	**7**	**58**	**18**	**22**	**0**	**28**
New Jersey	0	0	0	17	0	0	0
New York	0	5	0	24	0	0	28
Pennsylvania	49	1,120	114	26	34	0	0
East North Central	**10**	**7**	**0**	**9**	**11**	**0**	**70**
Illinois	8	0	0	26	0	0	0
Indiana	0	1	0	12	13	0	0
Michigan	154	61	0	24	0	0	139
Ohio	144	0	0	9	0	0	0
Wisconsin	37	124	0	21	0	0	79
West North Central	**7**	**0**	**0**	**12**	**0**	**0**	**63**
Iowa	8	0	0	0	0	0	0
Kansas	0	0	0	193	0	0	0
Minnesota	14	0	0	58	0	0	63
Missouri	0	0	0	0	0	0	0
Nebraska	12	0	0	0	0	0	0
North Dakota	119	0	0	0	0	0	0
South Atlantic	**12**	**32**	**0**	**8**	**34**	**0**	**28**
Delaware	0	0	0	33	37	0	0
Florida	36	113	0	15	0	0	0
Georgia	40	54	0	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	8	129	0	50	0	0	415
South Carolina	0	0	0	0	0	0	0
Virginia	0	77	0	8	0	0	0
West Virginia	0	0	0	0	0	0	29
East South Central	**3**	**90**	**0**	**10**	**24**	**0**	**0**
Alabama	46	100	0	18	36	0	0
Kentucky	0	0	0	21	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**32**	**0**	**2**	**5**	**0**	**0**
Arkansas	0	47	0	25	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	9	0	0
Mountain	**31**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	142	0	0	36	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	28	0	0	9	0	0	0
Pacific Contiguous	**0**	**38**	**0**	**2**	**2**	**0**	**0**
California	0	34	0	1	2	0	0
Oregon	0	0	0	58	0	0	0
Washington	0	42	0	64	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**154**
Alaska	0	11	0	0	0	0	0
Hawaii	0	0	0	0	0	0	154
U.S. Total	**5**	**7**	**16**	**2**	**6**	**0**	**19**

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, April 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**	**9**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	21
Maine	0	0	0	0	9	0	0	12
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**80**	**9**	**0**	**0**	**9**
New Jersey	0	0	0	114	114	0	0	8
New York	0	0	0	0	21	0	0	8
Pennsylvania	0	0	0	102	10	0	0	14
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	55	0	0	9
Michigan	0	0	0	0	12	0	0	13
Ohio	0	0	0	0	11	0	0	10
Wisconsin	0	0	0	0	11	0	68	14
West North Central	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**6**
Iowa	0	0	0	0	0	0	0	6
Kansas	0	0	0	0	0	0	0	150
Minnesota	0	0	0	0	11	0	0	11
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	12
North Dakota	0	0	0	0	0	0	0	103
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	121	0	0	25
Florida	0	0	0	0	7	0	0	5
Georgia	0	0	0	0	5	0	23	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
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	17
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	5	0	0	6
Kentucky	0	0	0	0	21	0	0	15
Mississippi	0	0	0	0	5	0	0	7
Tennessee	0	0	0	0	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	6	0	6	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	14	0	6	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	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	7
Pacific Contiguous	**0**	**0**	**0**	**62**	**8**	**0**	**3**	**2**
California	0	0	0	62	14	0	3	1
Oregon	0	0	0	0	14	0	0	15
Washington	0	0	0	0	11	0	0	10
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**203**	**0**	**0**	**23**
Alaska	0	0	0	0	203	0	0	8
Hawaii	0	0	0	0	0	0	0	31
U.S. Total	**0**	**0**	**0**	**51**	**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 April 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**187**	**97**	**0**	**21**	**0**	**0**	**30**
Connecticut	0	0	0	21	0	0	0
Maine	187	97	0	58	0	0	30
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**22**	**7**	**58**	**18**	**22**	**0**	**28**
New Jersey	0	0	0	17	0	0	0
New York	0	5	0	24	0	0	28
Pennsylvania	49	1,120	114	26	34	0	0
East North Central	**10**	**7**	**0**	**9**	**11**	**0**	**70**
Illinois	8	0	0	26	0	0	0
Indiana	0	1	0	12	13	0	0
Michigan	154	61	0	24	0	0	139
Ohio	144	0	0	9	0	0	0
Wisconsin	37	124	0	21	0	0	79
West North Central	**7**	**0**	**0**	**12**	**0**	**0**	**63**
Iowa	8	0	0	0	0	0	0
Kansas	0	0	0	193	0	0	0
Minnesota	14	0	0	58	0	0	63
Missouri	0	0	0	0	0	0	0
Nebraska	12	0	0	0	0	0	0
North Dakota	119	0	0	0	0	0	0
South Atlantic	**12**	**32**	**0**	**8**	**34**	**0**	**28**
Delaware	0	0	0	33	37	0	0
Florida	36	113	0	15	0	0	0
Georgia	40	54	0	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	8	129	0	50	0	0	415
South Carolina	0	0	0	0	0	0	0
Virginia	0	77	0	8	0	0	0
West Virginia	0	0	0	0	0	0	29
East South Central	**3**	**90**	**0**	**10**	**24**	**0**	**0**
Alabama	46	100	0	18	36	0	0
Kentucky	0	0	0	21	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**32**	**0**	**2**	**5**	**0**	**0**
Arkansas	0	47	0	25	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	9	0	0
Mountain	**31**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	142	0	0	36	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	28	0	0	9	0	0	0
Pacific Contiguous	**0**	**38**	**0**	**2**	**2**	**0**	**0**
California	0	34	0	1	2	0	0
Oregon	0	0	0	58	0	0	0
Washington	0	42	0	64	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**154**
Alaska	0	11	0	0	0	0	0
Hawaii	0	0	0	0	0	0	154
U.S. Total	**5**	**7**	**16**	**2**	**6**	**0**	**19**

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 April 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**	**9**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	21
Maine	0	0	0	0	9	0	0	12
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**80**	**9**	**0**	**0**	**9**
New Jersey	0	0	0	114	114	0	0	8
New York	0	0	0	0	21	0	0	8
Pennsylvania	0	0	0	102	10	0	0	14
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	55	0	0	9
Michigan	0	0	0	0	12	0	0	13
Ohio	0	0	0	0	11	0	0	10
Wisconsin	0	0	0	0	11	0	68	14
West North Central	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**6**
Iowa	0	0	0	0	0	0	0	6
Kansas	0	0	0	0	0	0	0	150
Minnesota	0	0	0	0	11	0	0	11
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	12
North Dakota	0	0	0	0	0	0	0	103
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	121	0	0	25
Florida	0	0	0	0	7	0	0	5
Georgia	0	0	0	0	5	0	23	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
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	17
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	5	0	0	6
Kentucky	0	0	0	0	21	0	0	15
Mississippi	0	0	0	0	5	0	0	7
Tennessee	0	0	0	0	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	6	0	6	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	14	0	6	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	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	7
Pacific Contiguous	**0**	**0**	**0**	**62**	**8**	**0**	**3**	**2**
California	0	0	0	62	14	0	3	1
Oregon	0	0	0	0	14	0	0	15
Washington	0	0	0	0	11	0	0	10
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**203**	**0**	**0**	**23**
Alaska	0	0	0	0	203	0	0	8
Hawaii	0	0	0	0	0	0	0	31
U.S. Total	**0**	**0**	**0**	**51**	**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, April 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**4**	**0**	**1**
Connecticut	0	1	6	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	9	0	1
New Hampshire	0	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	2	3	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**	**1**
Illinois	1	1	2	0	1
Indiana	1	2	3	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	4	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	8	5	0	3
Kansas	2	1	6	0	2
Minnesota	2	5	6	0	3
Missouri	1	1	7	0	2
Nebraska	2	8	8	0	4
North Dakota	2	5	8	0	4
South Dakota	3	11	11	0	5
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	10	0	2
District of Columbia	0	0	0	0	0
Florida	0	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	2	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	5	0	1
West South Central	**1**	**0**	**1**	**0**	**0**
Arkansas	2	1	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	0	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	5	6	0	3
Idaho	1	5	5	0	2
Montana	2	8	8	0	4
Nevada	0	3	1	0	1
New Mexico	2	7	7	0	4
Utah	1	5	2	0	2
Wyoming	2	8	4	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	8	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	**1**	**5**	**4**	**0**	**2**
Alaska	2	10	13	0	5
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 April 2017

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**0**
Connecticut	0	1	3	0	0
Maine	1	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	4	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**2**	**0**	**1**
Illinois	1	1	3	0	1
Indiana	1	2	2	0	1
Michigan	1	1	4	0	1
Ohio	1	1	3	0	1
Wisconsin	1	3	6	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	2	6	8	0	3
Kansas	1	2	6	0	2
Minnesota	2	3	7	0	2
Missouri	2	2	6	0	1
Nebraska	3	6	11	0	4
North Dakota	2	4	8	0	4
South Dakota	3	7	14	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	2	3	12	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	4	0	0
Georgia	1	1	4	0	1
Maryland	0	1	4	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	3	4	0	2
Mississippi	1	2	5	0	2
Tennessee	1	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	2	5	8	0	3
Idaho	2	4	6	0	2
Montana	3	5	19	0	4
Nevada	1	4	2	0	1
New Mexico	3	8	12	0	4
Utah	2	6	4	0	3
Wyoming	3	6	5	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	3	0	1
Oregon	1	3	11	0	2
Washington	1	3	9	0	2
Pacific Noncontiguous	**1**	**2**	**3**	**0**	**1**
Alaska	3	6	13	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through April 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	2	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	1	1	2	0	1
Michigan	1	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	5	6	0	2
Kansas	1	1	4	0	1
Minnesota	2	3	6	0	2
Missouri	2	1	5	0	1
Nebraska	2	5	8	0	3
North Dakota	2	3	6	0	3
South Dakota	3	6	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	9	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	3	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	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	2	2	4	0	1
Tennessee	1	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	2	0	0
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	4	6	0	2
Idaho	1	3	4	0	1
Montana	2	4	13	0	3
Nevada	1	3	1	0	1
New Mexico	3	6	9	0	3
Utah	2	5	3	0	2
Wyoming	3	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	2	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**

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

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2017

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through April 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	6	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	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	6	6	0	3
Kansas	1	1	5	0	2
Minnesota	2	4	6	0	2
Missouri	2	1	6	0	1
Nebraska	2	6	8	0	3
North Dakota	2	3	7	0	3
South Dakota	3	7	10	0	4
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	10	0	2
District of Columbia	0	0	0	0	0
Florida	1	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	2	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	4	0	2
Mississippi	2	2	4	0	2
Tennessee	1	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	4	6	0	2
Idaho	1	4	4	0	2
Montana	2	6	12	0	3
Nevada	1	3	1	0	1
New Mexico	3	7	8	0	4
Utah	2	5	3	0	2
Wyoming	3	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	3	8	0	2
Washington	1	3	7	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**2**
Alaska	2	7	10	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 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

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

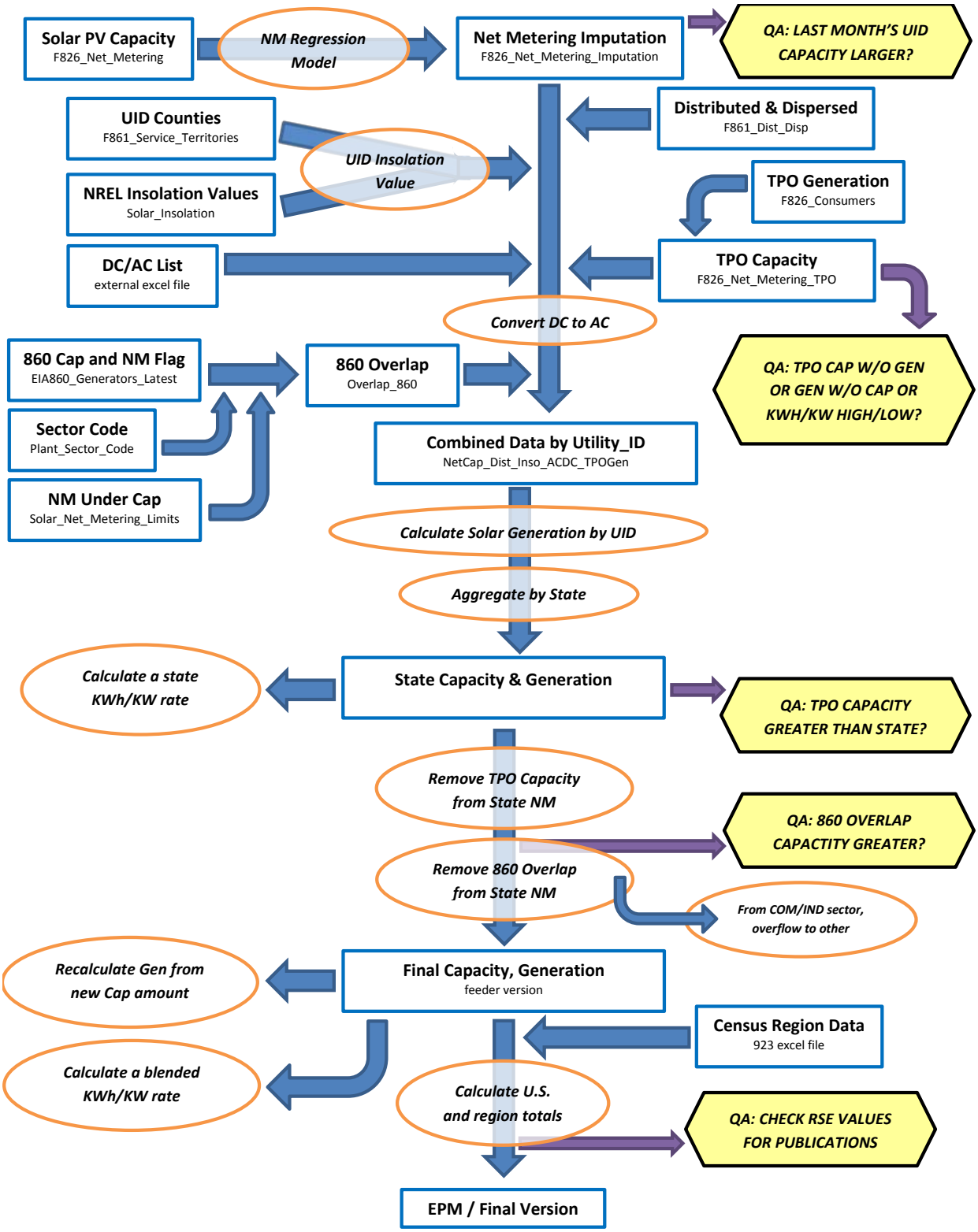
TMY3 (1991-2005) Weather Stations by MSA

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, April 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	6.20	--	1.03
Connecticut	--	--	--	1.03
Maine	26.10	6.25	--	1.03
Massachusetts	--	5.81	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	24.86	6.14	--	1.03
New Jersey	25.91	5.75	--	1.04
New York	26.02	6.23	--	1.03
Pennsylvania	24.84	5.96	--	1.03
East North Central	20.39	5.79	26.69	1.04
Illinois	17.80	5.81	--	1.00
Indiana	22.47	5.76	--	1.05
Michigan	18.61	5.85	26.69	1.03
Ohio	24.73	5.79	--	1.06
Wisconsin	18.05	5.80	26.69	1.03
West North Central	16.67	5.81	--	1.04
Iowa	17.78	5.82	--	1.05
Kansas	17.06	5.75	--	1.04
Minnesota	17.76	5.78	--	1.02
Missouri	17.65	5.80	--	1.01
Nebraska	16.85	--	--	1.07
North Dakota	13.40	6.00	--	1.00
South Dakota	16.54	--	--	--
South Atlantic	23.53	5.82	27.93	1.03
Delaware	25.92	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.92	5.81	27.93	1.02
Georgia	20.07	5.81	--	1.03
Maryland	24.31	5.80	--	1.06
North Carolina	25.09	5.92	--	1.05
South Carolina	24.82	5.77	--	1.03
Virginia	22.11	5.89	--	1.06
West Virginia	24.79	5.76	--	1.09
East South Central	20.69	5.79	28.42	1.03
Alabama	19.75	5.64	--	1.03
Kentucky	21.70	5.84	28.42	1.01
Mississippi	12.29	5.86	--	1.03
Tennessee	21.81	5.76	--	1.01
West South Central	16.03	5.85	28.30	1.03
Arkansas	17.75	5.88	--	1.03
Louisiana	16.11	--	28.30	1.03
Oklahoma	17.42	5.83	--	1.04
Texas	15.73	5.84	--	1.03
Mountain	18.74	5.76	--	1.05
Arizona	19.29	5.48	--	1.04
Colorado	19.01	--	--	1.09
Idaho	--	--	--	--
Montana	16.76	5.92	--	1.02
Nevada	18.09	5.69	--	1.04
New Mexico	18.80	5.66	--	1.04
Utah	21.25	5.80	--	1.04
Wyoming	17.46	5.85	--	1.05
Pacific Contiguous	18.97	--	--	1.03
California	22.90	--	--	1.03
Oregon	--	--	--	1.03
Washington	16.62	--	--	1.09
Pacific Noncontiguous	18.38	6.11	--	1.00
Alaska	14.00	--	--	1.00
Hawaii	19.51	6.11	--	--
U.S. Total	19.36	6.03	28.03	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.