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U.S. Energy Information Administration

Electric Power Monthly
with Data for May 2017

July 2017

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Revised on July 31, 2017 – See details on the following page

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July 2017 EPM Revision Notice – July 31, 2017

Table 6.1, Electric Generating Summer Capacity Changes (MW), April 2017 to May 2017, is now included in this version, it was not available at the time of the original posting on July 25, 2017.

Additionally, this version corrects an overstatement of future wind capacity in Table 6.5.

It also contains an update of the power plant frame used to estimate May 2017 generation and fuel consumption. This update results in a 0.2% reduction in natural gas consumption for electricity, and smaller changes (between 0.01 and 0.02%) in some other estimates including net generation from natural gas, hydroelectric power, wind, utility-scale and small-scale solar, wood, and other biomass.

Tables that are revised are the following: Tables ES.1.A; ES.1.B; 1.1; 1.1.A; 1.2.A; 1.2.B; 1.2.C; 1.2.D; 1.3.A; 1.3.B; 1.4.A; 1.4.B; 1.5.A; 1.5.B; 1.7.A; 1.7.B; 1.10.A; 1.10.B; 1.11.A; 1.11.B; 1.14.A; 1.14.B; 1.15.A; 1.15.B; 1.17.A; 1.17.B; 2.2.B; 2.2.C; 2.4.A; 2.4.B; 2.4.C; 2.5.A; 2.5.B; 2.5.C; 2.7.A; 2.7.B; 2.7.C; 2.8.A; 2.8.B; 2.9.A; 2.11.A; 2.11.B; 2.12.A; 2.12.B; 2.14.A; 2.14.B; 3.2; 4.4 Continued; 4.5; 4.5 Continued; 6.1; 6.1.A; 6.1.B; 6.2.A; 6.2.B; 6.2.C; 6.3; 6.5; 6.6; 6.7.A; 6.7.B; A.1.A; A.1.B; A.2.A; A.2.B; A.3.A; A.3.B; A.4.A; A.4.A continued; A.4.B; A.4.B continued; A.5.A; A.5.A continued; A.5.B; and A.5.B continued.

July 2017 EMU Revision Notice – July 31, 2017

The May 2017 EMU was updated to accommodate an update of the power plant frame used to estimate May 2017 generation and fuel consumption. As a result, the Highlights section has been updated with revised estimates of Net Generation (revised from 321,216 thousand MWh to 321,202 thousand MWh) and Natural Gas consumption (revised from 732,226 Mcf to 732,004 Mcf).

Contacts

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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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	93,125	81,728	13.9%	69,481	62,122	22,974	18,845	23	26	646	736	0	0
Petroleum Liquids	Utility Scale Facilities	1,002	950	5.5%	720	654	238	238	9	8	35	50	0	0
Petroleum Coke	Utility Scale Facilities	839	974	-13.9%	654	763	112	124	0	0	72	88	0	0
Natural Gas	Utility Scale Facilities	96,354	110,901	-13.1%	47,829	52,960	40,807	49,738	573	650	7,145	7,554	0	0
Other Gas	Utility Scale Facilities	1,163	977	19.1%	5	NM	353	284	0	0	805	681	0	0
Nuclear	Utility Scale Facilities	61,309	66,576	-7.9%	31,728	36,531	29,581	30,046	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	32,122	25,362	26.7%	29,727	23,512	2,236	1,714	NM	NM	143	130	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	34,631	28,978	19.5%	3,866	3,318	28,225	23,062	290	270	2,250	2,327	0	0
... Wind	Utility Scale Facilities	22,326	18,795	18.8%	3,062	2,681	19,245	16,096	13	13	6	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,816	3,603	61.4%	375	214	5,370	3,332	67	54	4	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,321	3,173	4.7%	223	190	936	762	7	NM	2,156	2,219	0	0
... Other Biomass	Utility Scale Facilities	1,746	1,929	-9.5%	118	138	1,341	1,491	203	202	84	98	0	0
... Geothermal	Utility Scale Facilities	1,422	1,476	-3.7%	89	95	1,333	1,381	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-423	-321	31.9%	-350	-257	-73	-64	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,080	1,211	-10.8%	35	27	545	636	95	95	405	453	0	0
All Energy Sources	Utility Scale Facilities	321,202	317,337	1.2%	183,697	179,641	124,998	124,623	1,006	1,055	11,500	12,018	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,479	1,945	27.5%	0	0	0	0	809	719	250	181	1,420	1,044
Estimated Total Solar Photovoltaic	All Facilities	7,893	5,160	53.0%	375	200	4,968	2,958	876	773	254	NM	1,420	1,044
Estimated Total Solar	All Facilities	8,295	5,548	49.5%	375	214	5,370	3,332	876	773	254	NM	1,420	1,044
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	51,082	45,036	13.4%	37,683	33,834	13,142	10,933	8	9	249	260	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,699	1,565	8.6%	1,306	1,173	338	325	15	11	39	56	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	321	371	-13.5%	264	296	41	52	0	0	15	23	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	732,044	839,337	-12.8%	371,446	409,691	305,026	371,145	5,164	5,604	50,407	52,897	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,064	1,135	-6.3%	82	81	131	135	28	31	823	889	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	215	209	3.0%	0	0	83	86	19	9	113	114	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	82	74	12.0%	0	0	10	6	1	0	72	67	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	77,118	77,892	-1.0%	685	864	19,971	24,001	3,678	3,652	52,784	49,374	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	52,146	46,171	12.9%	37,765	33,915	13,274	11,068	36	40	1,071	1,149	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,914	1,773	7.9%	1,307	1,173	421	410	35	20	151	170	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	403	445	-9.3%	265	296	51	58	1	0	87	90	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	809,162	917,229	-11.8%	372,131	410,556	324,997	395,146	8,843	9,256	103,191	102,271	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	165,927	194,816	-14.8%	130,139	151,237	34,785	42,195	117	144	886	1,240	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	30,443	33,692	-9.6%	19,556	21,114	9,224	10,810	287	403	1,376	1,364	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,035	1,282	-19.3%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for May									
	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	May 2017	May 2016	Percentage Change	May 2017	May 2016	Percentage Change	May 2017	May 2016	Percentage Change
Residential	98,757	93,981	5.1%	12,857	12,023	6.9%	13.02	12.79	1.8%
Commercial	109,757	107,900	1.7%	11,608	11,055	5.0%	10.58	10.25	3.2%
Industrial	79,838	78,246	2.0%	5,434	5,134	5.8%	6.81	6.56	3.8%
Transportation	583	582	0.2%	56	53	5.1%	9.58	9.13	4.9%
All Sectors	288,934	280,708	2.9%	29,954	28,266	6.0%	10.37	10.07	3.0%

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

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

Net Generation and Consumption of Fuels for January through May															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	467,378	432,157	8.1%	346,693	326,366	117,133	101,622	151	189	3,400	3,980	0	0
Petroleum Liquids	Utility Scale Facilities	4,962	5,144	-3.5%	3,649	3,511	1,075	1,401	56	45	181	187	0	0
Petroleum Coke	Utility Scale Facilities	3,669	4,814	-23.8%	2,732	3,910	588	500	3	4	345	400	0	0
Natural Gas	Utility Scale Facilities	445,132	522,230	-14.8%	216,641	249,534	189,213	232,339	2,976	3,059	36,302	37,298	0	0
Other Gas	Utility Scale Facilities	5,720	5,798	-1.4%	81	33	1,669	1,676	0	0	3,969	4,089	0	0
Nuclear	Utility Scale Facilities	320,319	333,253	-3.9%	169,467	177,267	150,853	155,986	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	143,872	127,439	12.9%	133,090	117,177	10,066	9,559	NM	NM	661	675	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	168,186	146,272	15.0%	19,388	18,463	135,835	114,823	1,283	1,341	11,679	11,646	0	0
... Wind	Utility Scale Facilities	115,370	100,254	15.1%	15,834	15,408	99,439	84,747	64	64	33	35	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	19,874	13,224	50.3%	1,324	833	18,324	12,167	214	212	11	12	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	16,839	16,472	2.2%	1,200	1,174	4,445	4,221	30	22	11,164	11,055	0	0
... Other Biomass	Utility Scale Facilities	8,737	9,202	-5.1%	591	607	6,699	7,009	975	1,043	472	543	0	0
... Geothermal	Utility Scale Facilities	7,367	7,119	3.5%	439	441	6,928	6,678	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,299	-1,867	23.1%	-1,909	-1,478	-390	-389	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	5,362	5,595	-4.2%	236	143	2,683	2,915	422	457	2,021	2,080	0	0
All Energy Sources	Utility Scale Facilities	1,562,300	1,580,835	-1.2%	890,069	894,926	608,726	620,432	4,946	5,122	58,560	60,355	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	9,533	7,500	27.1%	0	0	0	0	3,278	2,865	946	701	5,309	3,934
Estimated Total Solar Photovoltaic	All Facilities	28,173	19,478	44.6%	1,324	794	17,090	10,960	3,493	3,077	957	713	5,309	3,934
Estimated Total Solar	All Facilities	29,407	20,724	41.9%	1,324	833	18,324	12,167	3,493	3,077	957	713	5,309	3,934
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	256,149	236,497	8.3%	188,093	176,759	66,700	58,243	56	63	1,300	1,433	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	8,378	8,691	-3.6%	6,533	6,320	1,544	2,104	94	53	206	213	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,380	1,797	-23.2%	1,108	1,478	196	215	1	1	75	103	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,343,316	3,888,638	-14.0%	1,649,091	1,897,019	1,407,087	1,705,388	27,628	27,197	259,510	259,034	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	5,654	6,454	-12.4%	480	470	680	739	184	255	4,311	4,990	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,001	1,039	-3.7%	10	13	382	405	110	58	499	563	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	384	419	-8.4%	1	1	46	42	6	6	330	370	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	402,983	398,177	1.2%	4,320	4,754	107,038	119,704	21,145	20,584	270,479	253,134	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	261,803	242,951	7.8%	188,572	177,230	67,380	58,981	240	318	5,611	6,422	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	9,379	9,730	-3.6%	6,543	6,333	1,926	2,510	205	111	705	777	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,764	2,216	-20.4%	1,109	1,479	242	257	7	7	405	473	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,746,299	4,286,815	-12.6%	1,653,411	1,901,773	1,514,125	1,825,093	48,773	47,781	529,990	512,168	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through May									
	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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	Percentage Change
Residential	522,884	528,794	-1.1%	66,416	65,289	1.7%	12.70	12.35	2.8%
Commercial	527,016	527,291	-0.1%	54,932	53,509	2.7%	10.42	10.15	2.7%
Industrial	379,816	379,755	0.0%	25,335	24,472	3.5%	6.67	6.44	3.6%
Transportation	3,119	3,093	0.8%	295	290	1.6%	9.45	9.38	0.7%
All Sectors	1,432,835	1,438,933	-0.4%	146,977	143,560	2.4%	10.26	9.98	2.8%

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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	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal (1000 tons)	49,206	43,883	41.01	42.39	266	261	254,183	232,150	40.31	41.80
Petroleum Liquids (1000 barrels)	1,081	1,520	W	58.87	149	147	6,693	6,863	69.83	48.73
Petroleum Coke (1000 tons)	242	307	57.46	36.76	6	8	1,281	1,787	57.45	37.85
Natural Gas (1000 Mcf)	625,781	830,090	3.60	2.47	495	754	2,884,928	3,853,025	3.70	2.64

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal (1000 tons)	35,802	33,180	42.16	42.66	182	182	183,930	173,876	41.41	42.67
Petroleum Liquids (1000 barrels)	763	1,114	68.72	55.15	101	92	5,119	5,065	68.69	47.96
Petroleum Coke (1000 tons)	242	281	57.46	34.16	6	6	1,281	1,509	57.45	32.86
Natural Gas (1000 Mcf)	313,928	398,370	3.82	2.77	260	402	1,395,639	1,849,004	3.91	2.92

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal (1000 tons)	12,642	10,130	36.90	40.44	64	60	66,534	55,265	36.45	37.97
Petroleum Liquids (1000 barrels)	293	392	W	69.78	39	44	1,455	1,659	73.78	50.51
Petroleum Coke (1000 tons)	0	18	--	W	0	1	0	206	--	68.69
Natural Gas (1000 Mcf)	260,637	372,428	3.30	2.11	189	304	1,222,876	1,707,130	3.49	2.32

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal (1000 tons)	0	0	W	--	1	0	14	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)	483	587	W	W	3	2	2,897	3,445	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	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal (1000 tons)	762	573	W	60.98	19	19	3,704	2,989	W	W
Petroleum Liquids (1000 barrels)	25	14	W	66.30	9	11	119	139	70.69	56.21
Petroleum Coke (1000 tons)	0	8	--	W	0	1	0	73	--	W
Natural Gas (1000 Mcf)	50,733	58,704	W	W	43	46	263,517	293,446	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	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal	948,234	859,334	2.13	2.16	266	261	4,887,699	4,522,687	2.10	2.15
Petroleum Liquids	6,481	9,129	W	9.79	149	147	40,120	41,420	11.65	8.07
Petroleum Coke	6,776	8,554	2.05	1.32	6	8	35,891	50,085	2.05	1.35
Natural Gas	645,937	856,800	3.49	2.40	495	754	2,980,967	3,982,628	3.59	2.55
Fossil Fuels	1,607,428	1,733,816	W	2.31	662	916	7,944,676	8,596,820	2.67	2.35

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal	698,108	651,230	2.16	2.17	182	182	3,562,581	3,404,419	2.14	2.18
Petroleum Liquids	4,608	6,738	11.38	9.12	101	92	30,816	30,850	11.41	7.87
Petroleum Coke	6,776	7,842	2.05	1.22	6	6	35,891	42,453	2.05	1.17
Natural Gas	323,832	411,449	3.71	2.68	260	402	1,441,864	1,910,896	3.79	2.83
Fossil Fuels	1,033,323	1,077,259	2.68	2.40	374	515	5,071,152	5,388,618	2.66	2.43

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal	234,471	195,458	1.99	2.10	64	60	1,246,829	1,051,239	1.94	2.00
Petroleum Liquids	1,718	2,306	W	11.84	39	44	8,562	9,722	12.54	8.61
Petroleum Coke	0	505	--	W	0	1	0	5,661	--	2.50
Natural Gas	269,235	384,336	3.20	2.04	189	304	1,264,001	1,765,593	3.38	2.24
Fossil Fuels	505,423	582,605	W	W	240	351	2,519,392	2,832,216	2.62	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal	11	0	W	--	1	0	319	434	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	497	599	W	W	3	2	2,986	3,526	W	W
Fossil Fuels	507	599	W	W	3	2	3,305	3,960	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	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
Coal	15,645	12,645	W	2.76	19	19	77,970	66,594	W	W
Petroleum Liquids	155	84	W	11.02	9	11	741	848	11.35	9.20
Petroleum Coke	0	206	--	W	0	1	0	1,970	--	W
Natural Gas	52,374	60,417	W	W	43	46	272,117	302,614	W	W
Fossil Fuels	68,174	73,353	W	W	45	48	350,828	372,026	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-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,108	12,675	11,232	1,380,295	13,000	805,327	265,829	36,754	306,861	-6,686	13,683	4,079,079	19,467	52,833	56,221
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
Year 2016															
January	113,551	1,343	953	109,787	1,263	72,525	25,426	1,516	25,549	-312	1,144	352,745	1,021	2,450	2,536
February	92,719	1,236	904	98,190	1,169	65,638	24,150	2,443	26,682	-399	1,017	313,749	1,189	3,391	3,632
March	72,138	820	945	103,791	1,241	66,149	27,025	2,713	28,631	-384	1,099	304,168	1,582	4,038	4,295
April	72,022	794	1,037	99,561	1,149	62,365	25,475	2,949	26,812	-452	1,123	292,836	1,763	4,439	4,712
May	81,728	950	974	110,901	977	66,576	25,362	3,603	25,374	-321	1,211	317,337	1,945	5,160	5,548
June	116,227	936	1,009	131,883	1,085	67,175	22,902	3,610	22,925	-497	1,164	368,418	1,991	5,190	5,601
July	136,504	1,261	1,057	151,860	1,066	70,349	21,247	4,097	24,581	-784	1,212	412,450	2,066	5,691	6,163
August	135,811	1,275	1,085	155,117	1,102	71,526	19,359	3,948	20,562	-902	1,231	410,113	2,004	5,584	5,952
Sept	114,282	920	1,004	125,639	1,050	65,448	16,281	3,683	23,013	-715	1,164	351,769	1,790	5,109	5,473
October	99,338	941	611	102,625	891	60,733	17,249	3,193	26,726	-561	1,083	312,828	1,607	4,552	4,801
November	87,000	1,058	781	94,529	1,001	65,179	18,815	2,700	25,879	-607	1,092	297,427	1,307	3,823	4,007
December	118,790	1,139	871	96,412	1,007	71,662	22,538	2,299	30,128	-753	1,144	345,238	1,202	3,406	3,500
Year 2017															
January	115,549	1,175	945	91,325	1,115	73,121	27,704	2,206	27,232	-418	1,118	341,072	1,282	3,398	3,488
February	87,267	916	707	78,581	1,152	64,053	24,611	2,562	28,045	-504	1,024	288,414	1,449	3,875	4,011
March	89,648	971	744	92,638	1,206	65,093	30,198	4,474	32,399	-517	1,078	317,934	2,054	6,232	6,529
April	81,789	897	435	86,234	1,084	56,743	29,236	4,816	31,821	-437	1,061	293,679	2,268	6,774	7,084
May	93,125	1,002	839	96,354	1,163	61,309	32,122	5,816	28,815	-423	1,080	321,202	2,479	7,893	8,295
Year to Date															
2015	561,489	10,145	4,593	486,748	5,440	327,889	113,302	9,594	112,708	-2,001	5,436	1,635,343	5,353	13,721	14,948
2016	432,157	5,144	4,814	522,230	5,798	333,253	127,439	13,224	133,048	-1,867	5,595	1,580,835	7,500	19,478	20,724
2017	467,378	4,962	3,669	445,132	5,720	320,319	143,872	19,874	148,312	-2,299	5,362	1,562,300	9,533	28,173	29,407
Rolling 12 Months Ending in May															
2016	1,223,067	12,370	11,098	1,368,965	13,475	802,542	263,217	28,522	290,608	-4,957	14,187	4,023,093	16,287	41,562	44,809
2017	1,275,329	12,492	10,087	1,303,196	12,922	792,393	282,263	43,405	322,125	-7,118	13,450	4,060,544	21,499	61,528	64,904

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-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,872	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,445	19,467	52,833	56,221
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
Year 2016													
January	18,531	1,430	86	3,615	1,007	628	295	1,471	25,426	52,491	1,021	2,450	2,536
February	20,204	2,202	241	3,394	892	547	274	1,372	24,150	53,275	1,189	3,391	3,632
March	21,979	2,456	257	3,381	938	588	285	1,460	27,025	58,369	1,582	4,038	4,295
April	20,745	2,676	273	2,909	937	602	280	1,340	25,475	55,236	1,763	4,439	4,712
May	18,795	3,215	388	3,173	1,002	661	267	1,476	25,362	54,340	1,945	5,160	5,548
June	16,318	3,198	412	3,414	976	620	234	1,364	22,902	49,437	1,991	5,190	5,601
July	17,595	3,625	471	3,652	1,007	642	261	1,424	21,247	49,925	2,066	5,691	6,163
August	13,561	3,581	368	3,650	1,005	645	257	1,444	19,359	43,869	2,004	5,584	5,952
Sept	16,430	3,319	363	3,369	942	600	221	1,451	16,281	42,977	1,790	5,109	5,473
October	20,380	2,945	249	3,105	916	592	244	1,489	17,249	47,168	1,607	4,552	4,801
November	19,342	2,516	184	3,257	924	600	249	1,507	18,815	47,394	1,307	3,823	4,007
December	22,991	2,204	95	3,584	1,018	652	263	1,620	22,538	54,965	1,202	3,406	3,500
Year 2017													
January	20,350	2,116	90	3,451	986	620	286	1,541	27,704	57,142	1,282	3,398	3,488
February	21,692	2,426	136	3,308	881	530	266	1,369	24,611	55,218	1,449	3,875	4,011
March	25,599	4,178	297	3,504	924	552	286	1,533	30,198	67,071	2,054	6,232	6,529
April	25,403	4,506	310	3,254	874	539	248	1,503	29,236	65,874	2,268	6,774	7,084
May	22,326	5,414	402	3,321	906	597	242	1,422	32,122	66,753	2,479	7,893	8,295
Year to Date													
2015	80,410	8,368	1,227	17,130	4,457	2,808	1,224	6,679	113,302	235,604	5,353	13,721	14,948
2016	100,254	11,978	1,246	16,472	4,775	3,025	1,402	7,119	127,439	273,710	7,500	19,478	20,724
2017	115,370	18,639	1,235	16,839	4,571	2,838	1,328	7,367	143,872	312,058	9,533	28,173	29,407
Rolling 12 Months Ending in May													
2016	210,563	25,276	3,246	41,271	11,609	7,429	3,378	16,358	263,217	582,347	16,287	41,562	44,809
2017	241,987	40,028	3,376	40,870	11,358	7,188	3,058	17,665	282,263	647,792	21,499	61,528	64,904

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-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,299	8,671	8,881	654,476	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,081
Year 2015												
January	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
Year 2016												
January	84,064	926	832	52,497	NM	37,974	23,185	101	3,317	-230	27	202,696
February	69,803	779	734	47,642	4	34,281	21,931	158	3,625	-332	26	178,652
March	56,901	584	724	49,809	6	34,445	24,916	173	3,693	-291	34	170,993
April	53,477	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,944
May	62,122	654	763	52,960	NM	36,531	23,512	214	3,104	-257	27	179,641
June	86,713	687	793	64,043	17	37,000	21,477	223	3,034	-409	28	213,606
July	101,023	903	833	72,500	23	37,919	19,901	235	2,836	-678	23	235,520
August	100,319	888	856	72,932	15	37,927	18,054	227	2,429	-787	22	232,883
Sept	83,380	620	807	58,470	24	33,919	15,222	207	3,212	-626	22	195,258
October	73,089	633	418	47,523	6	30,016	16,101	179	3,472	-471	25	170,992
November	64,946	673	596	43,678	22	33,082	17,741	147	3,631	-522	24	164,018
December	87,463	755	667	45,796	23	37,268	20,976	221	4,343	-657	24	196,879
Year 2017												
January	86,163	839	743	44,026	16	38,425	25,618	158	3,039	-328	49	198,748
February	65,271	660	540	37,367	22	34,403	22,749	184	3,437	-414	46	164,264
March	66,356	761	535	45,000	20	34,693	27,998	292	4,098	-450	51	179,355
April	59,423	670	260	42,419	18	30,217	26,998	315	3,999	-366	54	164,005
May	69,481	720	654	47,829	5	31,728	29,727	375	3,491	-350	35	183,697
Year to Date												
2015	410,239	5,253	3,449	226,443	111	172,325	104,757	583	15,330	-1,610	219	937,098
2016	326,366	3,511	3,910	249,534	33	177,267	117,177	833	17,630	-1,478	143	894,926
2017	346,693	3,649	2,732	216,641	81	169,467	133,090	1,324	18,064	-1,909	236	890,069
Rolling 12 Months Ending in May												
2016	914,512	8,644	8,739	640,908	NM	421,622	242,060	1,744	38,292	-3,973	482	2,273,150
2017	943,626	8,809	7,703	621,583	212	416,599	262,562	2,763	41,022	-6,060	405	2,299,224

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2007-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,374	1,400	625,841	3,902	380,928	17,821	33,886	235,404	-1,057	7,126	1,615,768
Year 2015												
January	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
Year 2016												
January	28,568	364	42	48,897	367	34,551	2,100	1,391	19,506	-82	605	136,308
February	22,053	401	99	42,799	336	31,357	2,082	2,237	20,553	-66	543	122,395
March	14,354	205	138	45,836	367	31,704	1,956	2,491	22,334	-93	556	119,847
April	17,802	193	97	45,069	321	28,329	1,706	2,717	20,533	-84	575	117,259
May	18,845	238	124	49,738	284	30,046	1,714	3,332	19,730	-64	636	124,623
June	28,662	207	131	59,424	347	30,175	1,314	3,322	17,327	-88	609	141,430
July	34,566	300	136	70,502	322	32,430	1,238	3,789	19,049	-106	618	162,843
August	34,589	324	140	73,267	331	33,599	1,213	3,659	15,487	-115	627	163,120
Sept	30,149	259	113	58,800	344	31,529	995	3,417	17,316	-89	579	143,412
October	25,544	236	141	46,992	239	30,717	1,065	2,966	20,773	-90	565	129,150
November	21,420	338	116	42,479	338	32,097	1,003	2,512	19,672	-85	576	120,466
December	30,591	309	124	42,039	304	34,394	1,434	2,052	23,124	-96	637	134,914
Year 2017												
January	28,560	277	132	38,789	348	34,695	1,951	2,024	21,515	-90	584	128,785
February	21,282	212	102	33,664	322	29,650	1,738	2,349	22,081	-90	519	111,830
March	22,573	162	122	39,713	362	30,400	2,049	4,132	25,703	-66	527	125,678
April	21,743	186	121	36,240	285	26,526	2,092	4,449	25,356	-71	508	117,435
May	22,974	238	112	40,807	353	29,581	2,236	5,370	22,855	-73	545	124,998
Year to Date												
2015	146,505	4,483	685	223,276	1,566	155,565	7,910	8,842	84,518	-391	2,664	635,622
2016	101,622	1,401	500	232,339	1,676	155,986	9,559	12,167	102,656	-389	2,915	620,432
2017	117,133	1,075	588	189,213	1,669	150,853	10,066	18,324	117,511	-390	2,683	608,726
Rolling 12 Months Ending in May												
2016	297,726	3,158	1,416	628,903	3,626	380,920	19,645	26,287	220,996	-984	7,089	1,588,781
2017	322,653	3,048	1,489	582,715	3,896	375,794	18,329	40,043	250,259	-1,058	6,895	1,604,061

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-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
Year 2016															
January	43	11	1	648	0	0	NM	23	235	0	91	1,057	409	432	432
February	47	13	1	550	0	0	NM	45	207	0	76	944	468	512	512
March	44	NM	1	595	0	0	NM	47	247	0	98	1,043	608	655	655
April	29	8	0	615	0	0	NM	44	223	0	97	1,022	661	705	705
May	26	8	0	650	0	0	NM	54	216	0	95	1,055	719	773	773
June	28	6	0	694	0	0	NM	62	201	0	82	1,079	723	785	785
July	30	9	1	763	0	0	NM	69	229	0	97	1,204	743	812	812
August	33	14	0	781	0	0	NM	59	224	0	96	1,212	718	777	777
Sept	34	7	0	675	0	0	NM	56	200	0	89	1,065	643	699	699
October	36	8	0	583	0	0	NM	45	207	0	87	969	578	623	623
November	39	NM	0	591	0	0	NM	38	197	0	84	961	467	505	505
December	45	10	1	605	0	0	NM	24	209	0	83	981	443	468	468
Year 2017															
January	40	18	1	662	0	0	NM	23	227	0	86	1,060	481	503	503
February	31	9	1	576	0	0	NM	27	204	0	79	931	526	553	553
March	35	NM	1	638	0	0	NM	47	216	0	82	1,045	703	751	751
April	22	8	0	529	0	0	NM	50	199	0	81	903	760	809	809
May	23	9	0	573	0	0	NM	67	223	0	95	1,006	809	876	876
Year to Date															
2015	237	124	4	2,720	0	0	14	161	1,118	0	455	4,833	2,260	2,422	2,422
2016	189	45	4	3,059	0	0	NM	212	1,129	0	457	5,122	2,865	3,077	3,077
2017	151	56	3	2,976	0	0	NM	214	1,069	0	422	4,946	3,278	3,493	3,493
Rolling 12 Months Ending in May															
2016	461	NM	8	7,810	0	0	NM	467	2,814	0	1,172	12,884	6,294	6,761	6,761
2017	398	NM	5	7,668	0	0	NM	568	2,536	0	1,040	12,417	7,593	8,160	8,160

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 1.2.D. Net Generation by Energy Source: Industrial Sector, 2007-May 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
Year 2016															
January	876	43	79	7,746	893	0	136	NM	2,491	0	420	12,684	98	NM	NM
February	817	43	70	7,198	828	0	131	3	2,296	0	372	11,758	108	111	111
March	839	27	82	7,551	868	0	147	NM	2,357	0	412	12,284	150	NM	NM
April	713	25	81	7,250	819	0	131	NM	2,165	0	424	11,611	164	NM	NM
May	736	50	88	7,554	681	0	130	NM	2,324	0	453	12,018	181	NM	NM
June	824	36	86	7,723	720	0	105	NM	2,362	0	444	12,303	183	NM	NM
July	884	49	87	8,095	721	0	101	NM	2,467	0	474	12,883	190	NM	NM
August	870	49	88	8,137	756	0	87	NM	2,422	0	486	12,898	186	NM	NM
Sept	718	35	84	7,695	681	0	60	3	2,285	0	473	12,034	170	173	173
October	669	64	NM	7,526	646	0	80	3	2,274	0	406	11,718	156	158	158
November	595	40	69	7,781	641	0	68	2	2,379	0	407	11,982	123	125	125
December	691	65	79	7,973	680	0	123	NM	2,452	0	400	12,464	114	NM	NM
Year 2017															
January	786	42	69	7,848	751	0	132	NM	2,450	0	399	12,479	120	NM	NM
February	683	35	65	6,975	808	0	120	NM	2,323	0	380	11,389	139	NM	NM
March	684	36	86	7,287	825	0	136	2	2,382	0	418	11,856	210	212	212
April	601	34	54	7,046	781	0	131	NM	2,267	0	419	11,335	226	NM	NM
May	646	35	72	7,145	805	0	143	4	2,246	0	405	11,500	250	254	254
Year to Date															
2015	4,508	285	455	34,310	3,762	0	621	8	11,742	0	2,098	57,789	557	566	566
2016	3,980	187	400	37,298	4,089	0	675	12	11,634	0	2,080	60,355	701	713	713
2017	3,400	181	345	36,302	3,969	0	661	11	11,668	0	2,021	58,560	946	957	957
Rolling 12 Months Ending in May															
2016	10,368	465	935	91,344	9,728	0	1,463	NM	28,506	0	5,444	148,278	1,596	NM	NM
2017	8,651	518	NM	91,231	8,814	0	1,287	NM	28,309	0	5,110	144,841	2,067	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.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
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-May 2017
(Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	513
February	614
March	824
April	939
May	1,044
June	1,086
July	1,133
August	1,100
Sept	977
October	874
November	717
December	644
Year 2017	
January	682
February	784
March	1,142
April	1,282
May	1,420
Year to Date	
2015	2,536
2016	3,934
2017	5,309
Rolling 12 Months Ending in May	
2016	8,397
2017	11,840

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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	8,072	9,007	-10.4%	226	171	7,526	8,520	75	100	245	215
Connecticut	2,575	2,699	-4.6%	8	NM	2,512	2,636	NM	NM	43	32
Maine	965	912	5.9%	0	NM	767	728	19	18	179	166
Massachusetts	2,421	2,924	-17.2%	57	37	2,309	2,826	35	46	20	NM
New Hampshire	1,434	1,638	-12.4%	81	59	1,346	1,572	5	NM	3	NM
Rhode Island	485	683	-29.1%	0	1	480	677	5	NM	0	0
Vermont	193	152	27.0%	80	71	112	81	0	NM	0	0
Middle Atlantic	29,839	32,963	-9.5%	2,777	2,937	26,545	29,497	184	177	333	352
New Jersey	4,908	5,559	-11.7%	13	0	4,783	5,468	59	48	52	43
New York	10,105	10,736	-5.9%	2,750	2,931	7,187	7,629	91	97	77	78
Pennsylvania	14,826	16,668	-11.1%	14	NM	14,574	16,400	33	33	204	230
East North Central	43,553	42,684	2.0%	18,388	18,163	24,189	23,602	150	159	825	760
Illinois	13,678	13,636	0.3%	414	469	13,043	12,940	32	32	189	196
Indiana	6,560	7,411	-11.5%	5,639	6,282	546	862	23	23	353	245
Michigan	9,583	9,227	3.9%	7,239	6,118	2,166	2,899	70	79	108	131
Ohio	9,292	7,553	23.0%	1,867	1,675	7,354	5,810	17	NM	54	56
Wisconsin	4,440	4,856	-8.6%	3,230	3,619	1,080	1,092	8	NM	121	132
West North Central	27,490	23,613	16.4%	22,166	19,447	4,926	3,779	48	57	350	330
Iowa	4,902	3,453	42.0%	3,630	2,332	1,070	938	15	NM	188	160
Kansas	4,027	3,746	7.5%	2,560	2,696	1,465	1,042	0	0	NM	NM
Minnesota	4,404	4,746	-7.2%	3,291	3,814	981	795	15	NM	117	119
Missouri	7,399	5,566	32.9%	7,125	5,275	254	270	15	16	4	NM
Nebraska	2,620	2,860	-8.4%	2,157	2,581	428	250	2	NM	32	28
North Dakota	3,002	2,566	17.0%	2,439	2,237	556	319	0	NM	NM	NM
South Dakota	1,136	675	68.1%	963	512	172	164	NM	NM	0	0
South Atlantic	67,014	65,219	2.8%	55,457	54,315	9,895	9,185	93	115	1,569	1,604
Delaware	628	661	-5.0%	2	NM	541	531	NM	NM	84	125
District of Columbia	5	NM	NM	0	0	4	0	1	NM	0	0
Florida	21,372	20,433	4.6%	19,756	18,046	1,149	1,920	7	NM	460	459
Georgia	11,292	11,272	0.2%	9,543	9,591	1,333	1,277	NM	NM	416	404
Maryland	2,949	2,622	12.5%	NM	NM	2,891	2,555	39	41	17	24
North Carolina	10,861	9,808	10.7%	9,488	8,759	1,222	868	19	19	132	162
South Carolina	7,265	7,688	-5.5%	6,758	7,316	331	215	0	NM	175	155
Virginia	6,764	7,459	-9.3%	5,186	6,581	1,367	636	25	40	186	201
West Virginia	5,879	5,273	11.5%	4,723	4,016	1,058	1,183	0	0	98	74
East South Central	28,821	28,838	-0.1%	24,881	24,147	3,240	3,962	10	NM	691	718
Alabama	11,807	11,238	5.1%	8,941	7,581	2,550	3,308	0	0	317	350
Kentucky	6,193	5,640	9.8%	6,122	5,527	24	80	0	0	46	33
Mississippi	5,579	5,864	-4.9%	4,789	5,159	639	557	0	NM	151	148
Tennessee	5,241	6,095	-14.0%	5,029	5,880	27	17	10	NM	176	188
West South Central	55,538	55,974	-0.8%	16,356	19,191	33,133	30,362	88	88	5,962	6,333
Arkansas	3,862	4,159	-7.1%	2,452	2,778	1,279	1,268	1	NM	130	112
Louisiana	7,893	9,180	-14.0%	4,542	5,768	922	851	NM	NM	2,420	2,546
Oklahoma	5,674	5,976	-5.1%	2,703	2,950	2,935	2,956	0	NM	37	69
Texas	38,109	36,659	4.0%	6,659	7,695	27,997	25,286	78	71	3,375	3,606
Mountain	27,558	27,411	0.5%	21,000	21,632	6,282	5,463	52	51	224	264
Arizona	8,379	8,406	-0.3%	6,988	6,981	1,376	1,411	15	14	0	0
Colorado	4,267	4,147	2.9%	3,131	3,156	1,125	981	5	NM	6	NM
Idaho	1,516	1,515	0.0%	1,060	1,042	410	415	4	NM	41	57
Montana	2,157	2,123	1.6%	1,206	1,416	950	705	0	0	1	NM
Nevada	2,913	3,245	-10.2%	1,855	2,332	1,023	870	13	14	23	28
New Mexico	2,389	2,443	-2.2%	1,589	1,715	790	718	9	11	0	NM
Utah	2,750	2,530	8.7%	2,312	2,282	383	183	6	8	49	57
Wyoming	3,187	3,001	6.2%	2,860	2,708	224	180	0	0	103	113
Pacific Contiguous	32,100	30,423	5.5%	21,686	18,854	8,893	9,913	252	256	1,269	1,400
California	16,879	15,586	8.3%	7,732	5,931	7,791	8,174	240	246	1,115	1,234
Oregon	4,799	4,652	3.2%	4,146	3,643	605	952	NM	NM	40	51
Washington	10,422	10,185	2.3%	9,808	9,280	497	786	NM	NM	114	115
Pacific Noncontiguous	1,217	1,205	0.9%	758	784	369	340	56	41	33	41
Alaska	387	415	-6.6%	349	379	NM	15	NM	13	6	NM
Hawaii	829	791	4.9%	409	405	358	325	35	28	27	33
U.S. Total	321,202	317,337	1.2%	183,697	179,641	124,998	124,623	1,006	1,055	11,500	12,018

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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 May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	41,201	43,376	-5.0%	1,052	1,120	38,400	40,564	475	510	1,274	1,182
Connecticut	13,606	14,641	-7.1%	36	NM	13,233	14,292	134	152	203	180
Maine	4,813	5,104	-5.7%	0	NM	3,777	4,110	83	83	953	910
Massachusetts	13,474	12,655	6.5%	218	219	12,945	12,133	207	224	104	80
New Hampshire	6,360	7,613	-16.5%	383	452	5,936	7,127	27	23	13	NM
Rhode Island	2,034	2,435	-16.4%	3	5	2,010	2,403	22	27	0	0
Vermont	914	928	-1.5%	412	427	500	500	2	NM	0	0
Middle Atlantic	153,819	166,716	-7.7%	13,722	14,112	137,420	149,784	882	944	1,795	1,876
New Jersey	26,359	30,949	-14.8%	15	2	25,771	30,401	270	268	303	278
New York	49,817	52,673	-5.4%	13,649	14,076	35,335	37,667	450	514	383	416
Pennsylvania	77,643	83,094	-6.6%	58	NM	76,313	81,716	162	162	1,109	1,182
East North Central	228,153	229,697	-0.7%	95,631	96,215	127,261	128,549	752	794	4,510	4,139
Illinois	72,017	73,248	-1.7%	1,997	1,901	68,714	70,122	166	161	1,140	1,062
Indiana	38,483	40,385	-4.7%	32,658	33,122	3,888	5,830	99	104	1,838	1,329
Michigan	45,291	46,326	-2.2%	33,087	31,618	11,318	13,654	337	399	549	654
Ohio	48,474	44,624	8.6%	9,457	10,204	38,609	34,004	103	60	306	357
Wisconsin	23,888	25,115	-4.9%	18,432	19,369	4,731	4,939	47	71	677	736
West North Central	137,431	128,577	6.9%	110,318	105,212	25,219	21,364	236	290	1,657	1,710
Iowa	22,853	21,120	8.2%	16,479	14,524	5,525	5,636	79	111	771	848
Kansas	20,420	18,838	8.4%	12,849	12,977	7,554	5,825	0	0	NM	36
Minnesota	23,599	24,253	-2.7%	17,928	19,017	4,938	4,575	79	95	654	565
Missouri	34,757	30,711	13.2%	33,474	29,404	1,191	1,211	70	76	23	NM
Nebraska	14,332	15,142	-5.3%	11,905	13,448	2,272	1,527	9	8	146	160
North Dakota	16,253	14,379	13.0%	13,384	12,612	2,822	1,687	0	NM	NM	80
South Dakota	5,216	4,133	26.2%	4,299	3,230	917	903	NM	NM	0	0
South Atlantic	307,754	314,657	-2.2%	257,758	263,038	41,656	43,422	487	576	7,852	7,621
Delaware	2,367	3,060	-22.6%	4	NM	1,850	2,541	3	NM	510	497
District of Columbia	33	NM	NM	0	0	21	0	11	NM	0	0
Florida	90,741	91,154	-0.5%	83,989	82,417	4,519	6,539	34	43	2,198	2,155
Georgia	49,492	50,814	-2.6%	41,688	43,506	5,678	5,286	NM	7	2,124	2,015
Maryland	12,726	13,938	-8.7%	NM	8	12,407	13,610	199	213	115	108
North Carolina	50,149	50,434	-0.6%	44,579	45,745	4,815	3,848	94	110	661	730
South Carolina	37,130	39,277	-5.5%	35,222	37,238	1,067	1,279	1	NM	841	755
Virginia	36,342	35,922	1.2%	29,952	30,237	5,302	4,509	143	175	945	1,002
West Virginia	28,776	30,037	-4.2%	22,322	23,868	5,996	5,809	0	0	458	359
East South Central	137,099	143,155	-4.2%	118,618	121,716	14,868	17,708	60	61	3,553	3,669
Alabama	54,599	56,393	-3.2%	41,109	39,935	11,838	14,724	0	0	1,651	1,734
Kentucky	29,098	31,434	-7.4%	28,746	31,029	116	159	0	0	237	246
Mississippi	23,122	25,794	-10.4%	19,531	22,260	2,813	2,742	3	NM	775	789
Tennessee	30,280	29,534	2.5%	29,232	28,493	101	83	57	58	890	900
West South Central	257,318	263,993	-2.5%	77,118	87,935	149,620	143,546	380	393	30,200	32,118
Arkansas	21,409	22,511	-4.9%	15,737	16,159	4,968	5,651	3	NM	702	698
Louisiana	36,950	43,121	-14.3%	20,488	25,574	4,449	4,262	NM	70	11,956	13,214
Oklahoma	28,029	28,801	-2.7%	13,287	15,634	14,422	12,807	0	NM	321	356
Texas	170,929	169,560	0.8%	27,608	30,568	125,781	120,826	319	316	17,221	17,850
Mountain	136,504	137,366	-0.6%	106,407	107,629	28,656	28,173	236	201	1,205	1,363
Arizona	37,243	39,206	-5.0%	33,243	34,085	3,936	5,065	63	56	0	0
Colorado	21,760	21,614	0.7%	16,223	16,223	5,491	5,352	14	NM	31	26
Idaho	7,289	7,278	0.1%	4,972	4,780	2,064	2,224	21	3	232	271
Montana	11,841	10,976	7.9%	5,532	4,745	6,296	6,220	0	0	13	12
Nevada	13,889	15,159	-8.4%	9,246	11,221	4,498	3,750	54	54	91	134
New Mexico	13,437	11,886	13.1%	9,849	8,332	3,542	3,502	46	43	1	NM
Utah	13,382	13,654	-2.0%	11,482	12,553	1,603	753	37	33	260	315
Wyoming	17,663	17,594	0.4%	15,859	15,690	1,226	1,307	0	0	578	596
Pacific Contiguous	156,930	147,179	6.6%	105,385	93,847	44,017	45,734	1,192	1,129	6,337	6,469
California	80,594	72,801	10.7%	37,989	29,864	35,993	36,255	1,141	1,077	5,472	5,604
Oregon	25,015	25,946	-3.6%	20,370	20,066	4,362	5,607	34	33	249	240
Washington	51,321	48,432	6.0%	47,026	43,917	3,662	3,871	17	NM	616	625
Pacific Noncontiguous	6,092	6,119	-0.4%	4,058	4,102	1,610	1,587	246	223	177	207
Alaska	2,118	2,310	-8.3%	1,909	2,095	70	94	NM	70	48	51
Hawaii	3,973	3,809	4.3%	2,149	2,006	1,540	1,493	154	153	130	156
U.S. Total	1,562,300	1,580,835	-1.2%	890,069	894,926	608,726	620,432	4,946	5,122	58,560	60,355

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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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	65	30	119.6%	4	0	57	28	0	0	NM	NM
Connecticut	2	-2	-211.0%	0	0	2	-2	0	0	0	0
Maine	NM	5	NM	0	0	3	5	0	0	NM	0
Massachusetts	52	27	93.5%	0	0	52	25	0	0	0	NM
New Hampshire	4	0	--	4	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,151	4,112	1.0%	0	0	4,106	4,042	0	0	45	69
New Jersey	79	99	-19.8%	0	0	79	99	0	0	0	0
New York	81	126	-35.9%	0	0	57	89	0	0	24	36
Pennsylvania	3,991	3,887	2.7%	0	0	3,970	3,854	0	0	NM	33
East North Central	20,330	18,115	12.2%	12,529	11,477	7,623	6,455	NM	6	172	178
Illinois	4,036	3,663	10.2%	324	312	3,581	3,229	NM	NM	127	120
Indiana	4,851	5,011	-3.2%	4,752	4,778	98	230	2	NM	0	NM
Michigan	3,935	2,834	38.9%	3,887	2,788	41	37	0	0	NM	NM
Ohio	5,262	4,392	19.8%	1,355	1,417	3,903	2,958	0	0	NM	17
Wisconsin	2,246	2,215	1.4%	2,212	2,183	0	0	0	0	34	32
West North Central	14,319	11,882	20.5%	14,092	11,661	0	NM	6	NM	222	209
Iowa	2,277	1,171	94.5%	2,115	1,026	0	0	6	NM	156	135
Kansas	1,289	1,525	-15.5%	1,289	1,525	0	0	0	0	0	0
Minnesota	1,644	1,602	2.6%	1,615	1,561	0	0	0	NM	29	41
Missouri	5,792	4,295	34.9%	5,792	4,291	0	NM	0	0	0	NM
Nebraska	1,313	1,440	-8.8%	1,281	1,415	0	0	0	0	32	25
North Dakota	1,819	1,694	7.3%	1,814	1,688	0	0	0	0	NM	NM
South Dakota	187	156	20.1%	187	156	0	0	0	0	0	0
South Atlantic	17,576	16,122	9.0%	15,882	14,450	1,631	1,574	3	NM	60	97
Delaware	10	2	322.3%	0	0	10	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,222	2,988	7.8%	3,207	2,894	0	81	0	0	15	NM
Georgia	3,126	3,151	-0.8%	3,113	3,132	0	0	0	0	13	19
Maryland	743	562	32.3%	0	0	739	555	0	0	4	7
North Carolina	2,535	1,872	35.4%	2,511	1,842	6	NM	2	0	16	NM
South Carolina	1,681	1,446	16.3%	1,680	1,434	0	0	0	0	1	12
Virginia	794	1,232	-35.5%	748	1,201	35	11	1	NM	11	19
West Virginia	5,465	4,869	12.2%	4,624	3,946	841	907	0	0	0	15
East South Central	10,465	9,740	7.4%	10,139	9,455	266	198	0	0	60	88
Alabama	2,531	2,450	3.3%	2,529	2,443	0	0	0	0	NM	7
Kentucky	5,166	4,565	13.2%	5,166	4,565	0	0	0	0	0	0
Mississippi	401	258	55.6%	135	60	266	198	0	0	0	0
Tennessee	2,367	2,467	-4.0%	2,309	2,386	0	0	0	0	58	81
West South Central	15,101	11,412	32.3%	6,784	5,611	8,289	5,769	0	0	28	NM
Arkansas	1,551	898	72.7%	1,467	707	81	187	0	0	3	5
Louisiana	1,210	825	46.6%	766	572	444	253	0	0	0	0
Oklahoma	970	809	19.9%	819	702	127	79	0	0	25	NM
Texas	11,370	8,880	28.0%	3,732	3,630	7,638	5,250	0	0	0	0
Mountain	10,934	10,116	8.1%	10,028	9,446	867	640	0	0	39	30
Arizona	2,250	2,202	2.1%	2,250	2,202	0	0	0	0	0	0
Colorado	2,214	2,165	2.3%	2,214	2,160	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	733	515	42.3%	20	NM	713	502	0	0	0	NM
Nevada	70	68	3.7%	0	-3	71	71	0	0	0	0
New Mexico	1,070	1,222	-12.4%	1,070	1,222	0	0	0	0	0	0
Utah	1,949	1,485	31.2%	1,898	1,460	39	NM	0	0	13	3
Wyoming	2,643	2,454	7.7%	2,577	2,392	45	NM	0	0	22	22
Pacific Contiguous	18	29	-39.6%	0	0	0	0	0	0	18	29
California	14	27	-47.2%	0	0	0	0	0	0	14	27
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	2	86.2%	0	0	0	0	0	0	3	2
Pacific Noncontiguous	165	170	-2.6%	NM	21	134	138	NM	8	0	NM
Alaska	NM	40	NM	NM	21	NM	NM	NM	8	0	0
Hawaii	128	130	-1.8%	0	0	128	128	0	0	0	NM
U.S. Total	93,125	81,728	13.9%	69,481	62,122	22,974	18,845	23	26	646	736

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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 1.4.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	1,367	1,180	15.9%	106	152	1,244	1,016	0	0	NM	11
Connecticut	78	50	55.8%	0	0	78	50	0	0	0	0
Maine	NM	30	NM	0	0	29	27	0	0	NM	4
Massachusetts	1,136	947	20.0%	0	0	1,136	939	0	0	0	NM
New Hampshire	106	152	-30.3%	106	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	20,117	21,372	-5.9%	0	0	19,867	21,046	0	0	250	325
New Jersey	484	517	-6.4%	0	0	484	517	0	0	0	0
New York	464	593	-21.8%	0	0	334	451	0	0	130	142
Pennsylvania	19,170	20,262	-5.4%	0	0	19,050	20,079	0	0	120	183
East North Central	111,304	100,972	10.2%	66,146	61,654	44,166	38,301	NM	48	963	969
Illinois	22,718	21,168	7.3%	1,731	1,333	20,247	19,200	NM	18	718	617
Indiana	27,827	27,889	-0.2%	26,954	26,128	866	1,746	7	14	0	NM
Michigan	17,840	15,736	13.4%	17,616	15,494	195	177	0	15	NM	49
Ohio	29,594	24,688	19.9%	6,716	7,417	22,858	17,178	0	0	NM	94
Wisconsin	13,325	11,491	16.0%	13,129	11,283	0	0	0	0	196	209
West North Central	71,827	66,823	7.5%	70,728	65,615	1	NM	52	67	1,047	1,133
Iowa	9,450	7,923	19.3%	8,791	7,168	0	0	36	48	623	707
Kansas	6,905	7,630	-9.5%	6,905	7,630	0	0	0	0	0	0
Minnesota	8,914	8,688	2.6%	8,664	8,457	0	0	1	NM	249	229
Missouri	27,430	23,899	14.8%	27,415	23,863	1	NM	15	18	0	NM
Nebraska	7,862	7,876	-0.2%	7,716	7,724	0	0	0	0	146	152
North Dakota	10,452	9,953	5.0%	10,423	9,918	0	0	0	0	NM	36
South Dakota	814	853	-4.6%	814	853	0	0	0	0	0	0
South Atlantic	81,849	83,433	-1.9%	73,701	73,134	7,759	9,757	28	29	362	513
Delaware	74	213	-65.2%	0	0	74	213	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,656	12,320	27.1%	15,584	12,063	0	186	0	0	72	70
Georgia	12,283	12,407	-1.0%	12,198	12,320	0	0	0	0	84	87
Maryland	2,471	4,554	-45.7%	0	0	2,440	4,522	0	0	31	31
North Carolina	12,468	10,893	14.5%	12,315	10,746	50	NM	20	24	83	68
South Carolina	7,490	8,198	-8.6%	7,481	8,139	0	0	0	0	10	59
Virginia	4,496	6,661	-32.5%	4,230	6,369	175	163	8	NM	83	123
West Virginia	26,911	28,189	-4.5%	21,892	23,498	5,020	4,617	0	0	0	75
East South Central	48,600	49,681	-2.2%	47,159	48,207	1,119	1,027	0	0	322	447
Alabama	12,253	11,566	5.9%	12,228	11,526	0	0	0	0	24	39
Kentucky	24,671	25,932	-4.9%	24,671	25,932	0	0	0	0	0	0
Mississippi	1,931	1,660	16.4%	813	633	1,119	1,027	0	0	0	0
Tennessee	9,744	10,524	-7.4%	9,447	10,116	0	0	0	0	297	408
West South Central	69,209	50,683	36.6%	33,337	26,708	35,723	23,802	0	0	149	174
Arkansas	9,330	6,835	36.5%	8,659	5,231	652	1,581	0	0	20	23
Louisiana	4,765	4,034	18.1%	2,628	2,968	2,137	1,066	0	0	0	0
Oklahoma	5,815	5,371	8.3%	5,143	4,638	542	582	0	0	130	151
Texas	49,299	34,443	43.1%	16,907	13,871	32,392	20,573	0	0	0	0
Mountain	60,888	56,290	8.2%	54,846	50,439	5,877	5,603	0	0	165	248
Arizona	11,514	10,065	14.4%	11,514	10,065	0	0	0	0	0	0
Colorado	11,655	11,177	4.3%	11,650	11,153	0	NM	0	0	4	NM
Idaho	NM	28	NM	0	0	0	0	0	0	NM	28
Montana	5,168	4,990	3.6%	116	NM	5,049	4,916	0	0	2	NM
Nevada	623	536	16.3%	241	250	382	285	0	0	0	0
New Mexico	7,702	5,891	30.7%	7,702	5,891	0	0	0	0	0	0
Utah	9,283	8,947	3.8%	9,111	8,745	159	127	0	0	13	76
Wyoming	14,922	14,656	1.8%	14,512	14,265	287	252	0	0	123	139
Pacific Contiguous	1,488	831	79.0%	554	308	810	372	0	0	124	151
California	112	137	-18.2%	0	0	0	0	0	0	112	137
Oregon	554	308	79.6%	554	308	0	0	0	0	0	0
Washington	822	386	113.0%	0	0	810	372	0	0	12	14
Pacific Noncontiguous	728	892	-18.4%	NM	148	569	690	NM	45	0	NM
Alaska	206	262	-21.5%	NM	148	NM	69	NM	45	0	0
Hawaii	523	630	-17.0%	0	0	523	622	0	0	0	NM
U.S. Total	467,378	432,157	8.1%	346,693	326,366	117,133	101,622	151	189	3,400	3,980

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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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	39	23	67.2%	8	4	27	14	2	NM	NM	NM
Connecticut	6	15	-63.3%	0	1	NM	14	NM	NM	0	NM
Maine	NM	NM	NM	0	NM	NM	NM	0	NM	NM	NM
Massachusetts	26	NM	NM	2	1	22	NM	NM	NM	1	NM
New Hampshire	5	NM	NM	5	0	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	0	1	NM	NM	0	NM	0	0
Vermont	1	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	43	38	13.6%	9	6	28	26	NM	NM	3	3
New Jersey	NM	NM	NM	NM	NM	NM	NM	0	NM	0	NM
New York	21	14	54.3%	9	6	7	NM	NM	NM	3	2
Pennsylvania	18	22	-19.0%	0	NM	18	21	0	NM	NM	NM
East North Central	49	62	-21.0%	30	37	18	23	0	NM	1	1
Illinois	5	7	-28.8%	0	NM	5	7	0	NM	0	0
Indiana	13	11	18.8%	12	10	0	0	0	NM	1	1
Michigan	10	20	-49.9%	9	19	0	0	0	NM	NM	NM
Ohio	17	22	-21.8%	4	6	13	16	0	NM	0	NM
Wisconsin	4	2	83.8%	4	2	0	0	0	NM	NM	NM
West North Central	32	27	17.5%	32	27	0	NM	0	NM	0	NM
Iowa	11	10	8.6%	11	10	NM	NM	0	NM	0	NM
Kansas	8	3	143.3%	8	3	0	0	0	0	0	0
Minnesota	2	2	19.0%	2	2	0	NM	0	NM	0	NM
Missouri	5	9	-46.7%	5	9	0	NM	0	NM	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	3	43.5%	4	3	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	178	115	54.5%	148	76	21	35	3	NM	NM	4
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	45	21	118.0%	44	20	NM	NM	0	0	NM	NM
Georgia	14	8	86.7%	10	5	NM	0	0	0	NM	2
Maryland	11	11	-5.1%	0	1	10	10	0	NM	0	NM
North Carolina	29	22	28.7%	25	19	NM	3	0	NM	NM	NM
South Carolina	9	10	-2.5%	NM	9	0	NM	0	NM	0	0
Virginia	57	27	112.4%	49	6	5	20	3	NM	NM	NM
West Virginia	11	16	-27.9%	11	16	0	0	0	0	0	0
East South Central	26	32	-17.4%	23	30	0	0	0	NM	NM	NM
Alabama	4	3	21.8%	2	2	0	0	0	0	NM	NM
Kentucky	9	15	-35.9%	9	15	0	0	0	0	0	0
Mississippi	2	1	226.8%	1	1	0	0	0	0	1	0
Tennessee	11	13	-17.3%	11	13	0	NM	0	NM	0	NM
West South Central	18	19	-5.1%	8	7	10	12	0	NM	NM	1
Arkansas	7	4	66.7%	3	1	4	3	0	0	NM	1
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	NM	1	NM	NM	1	0	0	0	NM	0	NM
Texas	10	13	-27.2%	4	4	5	9	0	NM	0	NM
Mountain	23	23	-2.1%	21	20	2	3	0	NM	0	NM
Arizona	4	4	-5.5%	4	4	0	0	0	NM	0	0
Colorado	1	NM	NM	1	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	1	3	-69.9%	NM	NM	1	3	0	0	0	0
Nevada	1	0	543.9%	0	0	1	0	0	0	0	0
New Mexico	3	5	-41.4%	3	5	0	0	0	0	0	NM
Utah	5	3	61.9%	5	3	0	NM	0	0	0	NM
Wyoming	8	7	21.3%	8	7	0	0	0	0	0	NM
Pacific Contiguous	5	21	-77.9%	3	3	1	NM	0	NM	NM	17
California	3	20	-83.2%	3	3	1	NM	0	NM	0	16
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	NM	NM	NM	NM	NM	NM	NM	0	NM	NM	NM
Pacific Noncontiguous	590	589	0.0%	438	445	132	124	1	NM	19	19
Alaska	56	56	-0.2%	54	52	0	0	0	NM	2	3
Hawaii	534	533	0.0%	384	393	132	124	0	0	17	NM
U.S. Total	1,002	950	5.5%	720	654	238	238	9	8	35	50

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	155	204	-23.7%	20	23	105	150	22	21	NM	10
Connecticut	26	28	-5.6%	3	3	22	20	NM	NM	1	NM
Maine	21	84	-75.7%	0	NM	14	76	1	NM	NM	8
Massachusetts	84	68	23.1%	4	10	68	47	11	11	1	NM
New Hampshire	16	9	87.3%	9	5	NM	NM	7	NM	0	NM
Rhode Island	NM	14	NM	3	5	NM	6	2	NM	0	0
Vermont	2	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	280	515	-45.5%	67	151	176	324	16	14	21	26
New Jersey	32	57	-44.3%	NM	NM	31	54	0	NM	0	NM
New York	159	343	-53.7%	67	150	57	161	15	12	21	20
Pennsylvania	90	115	-21.7%	0	NM	88	109	1	NM	NM	5
East North Central	189	240	-21.1%	116	148	66	82	1	2	6	8
Illinois	23	35	-35.1%	2	2	21	32	0	1	0	0
Indiana	48	54	-11.7%	44	49	0	NM	0	NM	4	5
Michigan	34	55	-39.2%	31	54	0	0	1	1	1	NM
Ohio	72	84	-14.3%	26	33	45	49	0	NM	1	2
Wisconsin	13	11	14.6%	13	9	0	2	0	NM	NM	NM
West North Central	132	88	49.8%	130	85	1	1	1	NM	1	NM
Iowa	38	25	49.3%	38	25	0	0	0	NM	0	NM
Kansas	26	9	170.3%	26	9	0	0	0	0	0	0
Minnesota	11	8	41.1%	9	6	1	1	0	NM	1	NM
Missouri	25	31	-21.2%	25	31	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	20	12	74.3%	20	11	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	842	910	-7.5%	681	600	126	271	10	NM	25	36
Delaware	NM	41	NM	0	NM	NM	40	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	252	137	84.8%	248	128	NM	NM	0	0	NM	7
Georgia	50	73	-31.0%	28	35	NM	20	1	2	NM	16
Maryland	39	99	-60.7%	0	5	37	92	0	NM	1	NM
North Carolina	173	149	15.8%	148	109	NM	38	0	NM	NM	NM
South Carolina	61	65	-6.6%	56	56	1	NM	0	NM	4	7
Virginia	204	296	-31.2%	148	217	45	77	9	NM	NM	NM
West Virginia	54	50	7.8%	54	50	0	0	0	0	0	0
East South Central	105	118	-11.3%	95	106	2	5	0	NM	NM	8
Alabama	19	25	-25.0%	12	14	2	5	0	0	NM	6
Kentucky	45	44	1.6%	45	44	0	0	0	0	0	0
Mississippi	4	7	-41.0%	3	6	0	0	0	0	1	1
Tennessee	37	42	-11.7%	36	41	0	NM	0	NM	1	NM
West South Central	67	69	-3.5%	32	43	33	22	0	NM	1	3
Arkansas	22	16	39.3%	6	11	15	3	0	0	NM	2
Louisiana	NM	8	NM	NM	7	0	2	0	0	0	0
Oklahoma	5	7	-22.7%	5	6	0	0	0	NM	0	1
Texas	33	38	-14.1%	14	20	18	17	0	NM	0	NM
Mountain	99	100	-0.5%	90	92	9	8	0	NM	0	NM
Arizona	23	27	-13.1%	23	27	0	0	0	NM	0	0
Colorado	4	4	0.4%	4	4	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	7	7	-5.0%	NM	NM	7	7	0	0	0	0
Nevada	2	3	-48.6%	0	2	2	1	0	0	0	0
New Mexico	20	27	-26.2%	20	27	0	0	0	0	0	NM
Utah	21	12	71.6%	20	12	1	NM	0	0	0	NM
Wyoming	23	20	15.9%	23	20	0	0	0	0	0	NM
Pacific Contiguous	34	38	-9.6%	18	14	5	3	0	NM	10	20
California	22	32	-33.3%	14	13	2	3	0	NM	6	17
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	10	6	78.5%	NM	NM	NM	1	0	NM	4	4
Pacific Noncontiguous	3,057	2,862	6.8%	2,400	2,249	552	534	5	4	101	75
Alaska	386	306	26.0%	365	287	0	0	3	NM	17	16
Hawaii	2,671	2,556	4.5%	2,035	1,962	552	534	1	1	84	59
U.S. Total	4,962	5,144	-3.5%	3,649	3,511	1,075	1,401	56	45	181	187

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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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 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	25	NM	0	0	0	0	0	0	NM	25
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	17	NM	0	0	0	0	0	0	NM	17
East North Central	178	168	5.4%	91	51	77	99	0	0	10	18
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	94	61	54.5%	84	47	0	0	0	0	10	NM
Ohio	77	101	-23.6%	0	0	77	99	0	0	0	NM
Wisconsin	6	7	-5.0%	6	4	0	0	0	0	0	3
West North Central	2	NM	NM	0	0	0	0	0	0	1	NM
Iowa	2	NM	NM	0	0	0	0	0	0	1	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	54	223	-75.6%	40	213	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	40	213	-81.4%	40	213	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	65	104	-37.5%	65	104	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	65	104	-37.5%	65	104	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	489	426	14.8%	459	394	0	0	0	0	30	32
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	480	413	16.3%	459	394	0	0	0	0	21	19
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	13	-33.3%	0	0	0	0	0	0	9	13
Mountain	35	24	44.5%	0	0	35	24	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	35	24	44.5%	0	0	35	24	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	839	974	-13.9%	654	763	112	124	0	0	72	88

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	107	NM	0	0	0	0	0	0	NM	107
New Jersey	31	32	-1.9%	0	0	0	0	0	0	31	32
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	75	NM	0	0	0	0	0	0	NM	75
East North Central	813	1,147	-29.1%	355	719	414	330	0	0	44	98
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	382	271	40.7%	337	206	0	3	0	0	44	62
Ohio	414	334	23.9%	0	0	414	327	0	0	0	NM
Wisconsin	18	45	-61.3%	18	16	0	0	0	0	0	29
West North Central	19	29	-33.6%	0	0	0	0	3	4	16	NM
Iowa	19	29	-33.6%	0	0	0	0	3	4	16	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	318	981	-67.6%	260	942	0	0	0	0	NM	39
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	260	942	-72.4%	260	942	0	0	0	0	0	0
Georgia	NM	39	NM	0	0	0	0	0	0	NM	39
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	315	448	-29.7%	315	448	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	315	448	-29.7%	315	448	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	1,936	1,932	0.2%	1,802	1,801	0	0	0	0	134	132
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,895	1,879	0.8%	1,802	1,801	0	0	0	0	92	78
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	41	53	-22.6%	0	0	0	0	0	0	41	53
Mountain	175	170	2.9%	0	0	175	170	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	175	170	2.9%	0	0	175	170	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	3,669	4,814	-23.8%	2,732	3,910	588	500	3	4	345	400

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	3,647	4,979	-26.8%	NM	16	3,466	4,806	48	73	89	85
Connecticut	967	1,489	-35.0%	3	1	910	1,431	NM	NM	43	32
Maine	NM	313	NM	0	0	NM	274	2	NM	NM	38
Massachusetts	1,857	2,093	-11.3%	NM	13	1,785	2,027	NM	40	18	NM
New Hampshire	232	424	-45.2%	16	2	213	419	1	NM	3	NM
Rhode Island	453	660	-31.4%	0	0	449	656	4	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	9,731	12,657	-23.1%	671	923	8,862	11,524	64	83	133	127
New Jersey	2,317	3,192	-27.4%	12	NM	2,270	3,147	11	NM	23	NM
New York	3,617	4,696	-23.0%	659	916	2,886	3,702	44	57	28	20
Pennsylvania	3,797	4,769	-20.4%	0	NM	3,706	4,675	9	NM	82	83
East North Central	6,731	8,241	-18.3%	2,525	3,817	3,900	4,148	106	117	200	159
Illinois	971	1,122	-13.4%	83	150	828	904	NM	29	33	39
Indiana	950	1,696	-44.0%	802	1,432	35	205	18	16	96	43
Michigan	1,958	2,782	-29.6%	496	896	1,384	1,791	43	50	35	45
Ohio	2,072	1,393	48.7%	479	228	1,567	1,150	16	NM	10	NM
Wisconsin	781	1,247	-37.4%	666	1,111	86	98	3	NM	25	NM
West North Central	1,478	2,123	-30.4%	1,234	1,691	177	348	23	35	44	48
Iowa	257	378	-32.1%	222	354	NM	NM	7	NM	28	NM
Kansas	176	203	-13.2%	175	196	0	0	0	0	NM	NM
Minnesota	503	865	-41.9%	406	679	79	157	8	NM	10	NM
Missouri	314	488	-35.7%	203	279	NM	191	8	16	4	NM
Nebraska	NM	40	NM	NM	37	0	0	0	NM	0	3
North Dakota	NM	67	NM	NM	65	0	0	0	0	0	NM
South Dakota	NM	81	NM	NM	81	0	0	0	0	0	0
South Atlantic	27,868	27,007	3.2%	22,648	21,854	4,811	4,765	43	48	367	340
Delaware	581	619	-6.0%	1	NM	519	518	0	0	61	97
District of Columbia	1	NM	NM	0	0	0	0	1	NM	0	0
Florida	14,535	13,785	5.4%	13,646	12,168	772	1,494	3	NM	114	119
Georgia	4,303	4,612	-6.7%	3,169	3,411	1,061	1,152	0	0	73	49
Maryland	477	441	8.0%	0	0	432	396	37	38	7	NM
North Carolina	3,005	3,053	-1.6%	2,513	2,668	482	368	1	0	NM	NM
South Carolina	1,566	1,303	20.2%	1,272	1,115	284	180	0	NM	10	NM
Virginia	3,307	3,028	9.2%	2,028	2,479	1,228	504	0	NM	51	45
West Virginia	93	162	-42.7%	20	8	NM	154	0	0	42	1
East South Central	9,063	10,547	-14.1%	5,966	6,650	2,904	3,722	9	NM	185	163
Alabama	4,118	4,639	-11.2%	1,528	1,265	2,509	3,286	0	0	81	89
Kentucky	508	648	-21.6%	464	555	23	79	0	0	21	NM
Mississippi	4,023	4,427	-9.1%	3,620	4,034	370	358	0	NM	34	34
Tennessee	414	832	-50.2%	354	796	2	0	9	NM	49	25
West South Central	25,085	29,936	-16.2%	7,267	9,441	12,608	14,897	79	80	5,130	5,517
Arkansas	1,578	1,576	0.1%	377	488	1,178	1,064	0	NM	22	23
Louisiana	4,951	5,830	-15.1%	2,621	3,200	371	500	NM	NM	1,950	2,116
Oklahoma	2,406	3,142	-23.4%	1,498	1,846	898	1,280	0	NM	10	NM
Texas	16,150	19,388	-16.7%	2,771	3,908	10,161	12,053	70	65	3,149	3,362
Mountain	6,694	7,995	-16.3%	4,986	6,046	1,553	1,788	34	35	121	127
Arizona	2,536	2,725	-6.9%	1,684	1,731	840	983	12	12	0	0
Colorado	865	1,029	-15.9%	716	853	148	174	0	0	2	NM
Idaho	163	189	-14.0%	98	97	NM	86	3	0	NM	NM
Montana	37	NM	NM	NM	NM	4	NM	0	0	0	0
Nevada	1,905	2,367	-19.5%	1,685	2,139	193	194	4	NM	23	28
New Mexico	768	784	-2.0%	466	444	293	329	9	10	0	0
Utah	351	774	-54.7%	291	714	18	NM	5	7	36	38
Wyoming	69	71	-3.3%	NM	NM	1	NM	0	0	56	53
Pacific Contiguous	5,980	7,223	-17.2%	2,414	2,332	2,526	3,739	166	168	873	984
California	5,244	6,111	-14.2%	1,905	1,734	2,315	3,245	159	161	864	971
Oregon	297	484	-38.5%	235	288	53	183	NM	NM	NM	NM
Washington	439	628	-30.2%	275	310	158	312	2	NM	NM	5
Pacific Noncontiguous	76	194	-60.6%	NM	189	0	0	0	0	3	NM
Alaska	76	194	-60.6%	NM	189	0	0	0	0	3	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	96,354	110,901	-13.1%	47,829	52,960	40,807	49,738	573	650	7,145	7,554

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	18,941	20,460	-7.4%	114	67	18,012	19,556	337	382	479	455
Connecticut	5,962	7,458	-20.1%	18	1	5,608	7,130	133	149	202	179
Maine	709	1,388	-48.9%	0	0	534	1,181	11	NM	164	197
Massachusetts	9,181	7,778	18.0%	NM	61	8,833	7,455	170	195	100	68
New Hampshire	1,220	1,517	-19.6%	16	6	1,185	1,492	6	NM	13	NM
Rhode Island	1,868	2,319	-19.4%	0	0	1,852	2,299	17	NM	0	0
Vermont	1	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	49,865	59,983	-16.9%	3,682	4,202	45,082	54,572	391	459	710	750
New Jersey	10,878	15,762	-31.0%	38	NM	10,620	15,518	75	81	145	133
New York	18,348	20,396	-10.0%	3,643	4,171	14,334	15,761	259	324	112	140
Pennsylvania	20,639	23,824	-13.4%	1	NM	20,128	23,292	57	53	453	477
East North Central	34,574	44,777	-22.8%	14,209	19,485	18,627	23,871	566	582	1,172	839
Illinois	4,436	6,082	-27.1%	225	524	3,834	5,206	142	139	236	213
Indiana	6,750	7,813	-13.6%	5,312	6,136	857	1,391	75	74	505	212
Michigan	9,303	12,070	-22.9%	2,556	3,721	6,309	7,848	229	263	209	239
Ohio	9,955	11,693	-14.9%	2,529	2,622	7,258	8,998	96	53	72	NM
Wisconsin	4,129	7,119	-42.0%	3,587	6,482	369	428	24	53	149	156
West North Central	6,273	8,563	-26.7%	5,274	6,997	695	1,206	100	141	204	219
Iowa	957	1,229	-22.2%	817	1,100	NM	NM	27	41	112	88
Kansas	731	517	41.4%	718	489	0	0	0	0	NM	29
Minnesota	2,408	3,933	-38.8%	2,016	3,229	294	574	42	57	56	73
Missouri	1,261	2,036	-38.1%	809	1,353	401	632	30	42	21	NM
Nebraska	361	135	167.1%	361	127	0	0	1	NM	0	8
North Dakota	219	324	-32.3%	218	312	0	0	0	0	2	NM
South Dakota	336	388	-13.5%	336	388	0	0	0	0	0	0
South Atlantic	121,791	123,537	-1.4%	101,118	101,546	18,648	20,215	220	247	1,805	1,529
Delaware	2,083	2,653	-21.5%	1	NM	1,725	2,246	0	0	356	391
District of Columbia	11	NM	NM	0	0	0	0	11	NM	0	0
Florida	59,179	61,557	-3.9%	55,988	56,295	2,610	4,696	12	NM	569	547
Georgia	19,756	20,963	-5.8%	14,802	15,977	4,652	4,760	0	0	301	225
Maryland	2,311	1,791	29.1%	0	0	2,084	1,560	190	197	37	33
North Carolina	15,178	16,692	-9.1%	13,073	14,815	2,059	1,796	4	4	41	77
South Carolina	6,142	5,407	13.6%	5,229	4,299	858	1,071	0	NM	55	35
Virginia	16,793	14,022	19.8%	11,967	10,106	4,572	3,700	3	NM	251	212
West Virginia	340	432	-21.3%	58	38	88	385	0	0	194	8
East South Central	42,264	48,742	-13.3%	27,841	31,387	13,459	16,474	59	60	905	821
Alabama	19,008	21,626	-12.1%	6,924	6,561	11,660	14,612	0	0	425	454
Kentucky	1,954	3,169	-38.3%	1,741	2,925	108	152	0	0	105	92
Mississippi	17,470	19,847	-12.0%	15,614	17,964	1,686	1,710	3	NM	167	170
Tennessee	3,831	4,100	-6.5%	3,562	3,937	5	0	56	57	209	106
West South Central	108,230	137,307	-21.2%	28,223	41,592	53,624	67,752	345	355	26,038	27,608
Arkansas	5,581	6,675	-16.4%	1,221	2,555	4,235	3,982	0	NM	125	137
Louisiana	22,351	27,494	-18.7%	10,758	14,013	1,810	2,631	NM	70	9,726	10,780
Oklahoma	9,769	13,472	-27.5%	6,201	9,123	3,481	4,271	0	NM	87	74
Texas	70,529	89,665	-21.3%	10,044	15,900	44,098	56,869	287	279	16,100	16,617
Mountain	28,025	36,387	-23.0%	21,895	28,324	5,352	7,296	172	140	606	627
Arizona	7,211	10,811	-33.3%	5,272	7,334	1,884	3,430	55	47	0	0
Colorado	4,377	5,085	-13.9%	3,668	4,328	701	749	0	0	8	NM
Idaho	1,126	1,290	-12.7%	640	639	429	613	17	0	40	38
Montana	174	264	-34.1%	145	236	27	NM	0	0	2	0
Nevada	9,310	11,125	-16.3%	8,368	10,181	827	788	24	23	91	133
New Mexico	3,394	3,927	-13.6%	1,943	2,239	1,407	1,637	44	41	1	NM
Utah	2,110	3,551	-40.6%	1,811	3,305	78	NM	31	28	190	168
Wyoming	323	334	-3.1%	NM	NM	1	NM	0	0	274	271
Pacific Contiguous	34,618	41,482	-16.5%	13,764	14,975	15,713	21,397	785	693	4,355	4,418
California	27,811	32,958	-15.6%	10,007	10,904	12,776	17,052	754	656	4,274	4,346
Oregon	3,462	4,755	-27.2%	1,597	1,926	1,807	2,774	22	NM	NM	28
Washington	3,344	3,769	-11.3%	2,161	2,145	1,129	1,570	10	NM	NM	44
Pacific Noncontiguous	552	992	-44.4%	521	959	0	0	2	1	28	NM
Alaska	552	992	-44.4%	521	959	0	0	2	1	28	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	445,132	522,230	-14.8%	216,641	249,534	189,213	232,339	2,976	3,059	36,302	37,298

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 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	60	-10.6%	0	0	0	0	0	0	54	60
New Jersey	18	NM	NM	0	0	0	0	0	0	18	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	48	NM	0	0	0	0	0	0	NM	48
East North Central	473	369	28.4%	5	NM	205	170	0	0	263	188
Illinois	21	NM	NM	0	0	0	0	0	0	21	NM
Indiana	224	162	37.9%	0	NM	0	0	0	0	224	161
Michigan	152	142	6.7%	5	10	146	132	0	0	0	0
Ohio	77	NM	NM	0	0	59	NM	0	0	18	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	1	NM	NM	0	0	0	0	0	0	1	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	1	NM	NM	0	0	0	0	0	0	1	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	NM	29	NM	0	0	0	0	0	0	NM	29
Delaware	NM	27	NM	0	0	0	0	0	0	NM	27
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	0	11.4%	0	0	0	0	0	0	1	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	2	59.9%	0	0	0	0	0	0	3	2
East South Central	2	1	72.7%	0	0	0	0	0	0	2	1
Alabama	1	0	--	0	0	0	0	0	0	1	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	1	30.4%	0	0	0	0	0	0	2	1
West South Central	414	314	31.7%	0	0	121	81	0	0	293	233
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	183	132	39.3%	0	0	0	0	0	0	183	132
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	231	183	26.2%	0	0	121	81	0	0	109	102
Mountain	28	39	-29.2%	0	0	2	1	0	0	26	39
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	1	145.2%	0	0	2	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	NM	NM	0	0	0	0	0	0	0	NM
Wyoming	26	38	-31.9%	0	0	0	0	0	0	26	38
Pacific Contiguous	162	159	1.6%	0	0	25	33	0	0	137	126
California	137	126	8.3%	0	0	0	0	0	0	137	126
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	25	33	-24.1%	0	0	25	33	0	0	0	0
Pacific Noncontiguous	5	NM	NM	0	0	0	0	0	0	5	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	NM	NM	0	0	0	0	0	0	5	NM
U.S. Total	1,163	977	19.1%	5	NM	353	284	0	0	805	681

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.B. Utility Scale Facility Net Generation from Other Gases

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	299	333	-10.1%	0	0	0	0	0	0	299	333
New Jersey	94	111	-15.6%	0	0	0	0	0	0	94	111
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	205	222	-7.3%	0	0	0	0	0	0	205	222
East North Central	2,401	2,215	8.4%	81	33	963	1,011	0	0	1,357	1,170
Illinois	86	138	-37.8%	0	0	0	4	0	0	86	135
Indiana	1,198	947	26.5%	11	NM	0	0	0	0	1,187	939
Michigan	712	691	3.1%	70	25	642	666	0	0	0	0
Ohio	404	438	-7.7%	0	0	321	342	0	0	84	96
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	13	23	-41.6%	0	0	0	0	0	0	13	23
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	23	-41.6%	0	0	0	0	0	0	13	23
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	162	111	46.6%	0	0	0	0	0	0	162	111
Delaware	148	100	47.8%	0	0	0	0	0	0	148	100
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	2	18.4%	0	0	0	0	0	0	2	2
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	12	9	37.9%	0	0	0	0	0	0	12	9
East South Central	14	16	-13.3%	0	0	0	0	0	0	14	16
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	6	6	-4.4%	0	0	0	0	0	0	6	6
West South Central	1,947	2,060	-5.5%	0	0	571	488	0	0	1,376	1,572
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	860	1,036	-17.0%	0	0	0	0	0	0	860	1,036
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,087	1,025	6.1%	0	0	571	488	0	0	517	537
Mountain	173	195	-11.6%	0	0	7	6	0	0	166	189
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	5	36.0%	0	0	7	5	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	6	NM	NM	0	0	0	0	0	0	6	NM
Wyoming	160	186	-14.2%	0	0	0	0	0	0	160	186
Pacific Contiguous	689	826	-16.6%	0	0	128	171	0	0	561	656
California	561	656	-14.5%	0	0	0	0	0	0	561	656
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	128	171	-24.8%	0	0	128	171	0	0	0	0
Pacific Noncontiguous	21	19	9.4%	0	0	0	0	0	0	21	19
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	21	19	9.4%	0	0	0	0	0	0	21	19
U.S. Total	5,720	5,798	-1.4%	81	33	1,669	1,676	0	0	3,969	4,089

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	2,441	2,468	-1.1%	0	0	2,441	2,468	0	0	0	0
Connecticut	1,440	1,042	38.2%	0	0	1,440	1,042	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	126	495	-74.5%	0	0	126	495	0	0	0	0
New Hampshire	874	931	-6.1%	0	0	874	931	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	11,676	12,348	-5.4%	0	0	11,676	12,348	0	0	0	0
New Jersey	2,247	2,045	9.9%	0	0	2,247	2,045	0	0	0	0
New York	3,274	3,081	6.3%	0	0	3,274	3,081	0	0	0	0
Pennsylvania	6,156	7,222	-14.8%	0	0	6,156	7,222	0	0	0	0
East North Central	12,645	12,925	-2.2%	2,508	2,148	10,137	10,778	0	0	0	0
Illinois	7,557	7,887	-4.2%	0	0	7,557	7,887	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,661	2,742	-2.9%	2,508	2,148	153	594	0	0	0	0
Ohio	1,527	1,401	9.0%	0	0	1,527	1,401	0	0	0	0
Wisconsin	899	895	0.4%	0	0	899	895	0	0	0	0
West North Central	3,783	4,101	-7.8%	3,336	3,659	446	442	0	0	0	0
Iowa	446	442	1.0%	0	0	446	442	0	0	0	0
Kansas	907	904	0.4%	907	904	0	0	0	0	0	0
Minnesota	974	1,275	-23.6%	974	1,275	0	0	0	0	0	0
Missouri	906	538	68.4%	906	538	0	0	0	0	0	0
Nebraska	549	941	-41.7%	549	941	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,648	18,108	-8.1%	15,320	16,796	1,329	1,312	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	2,723	2,700	0.9%	2,723	2,700	0	0	0	0	0	0
Georgia	3,004	2,874	4.5%	3,004	2,874	0	0	0	0	0	0
Maryland	1,329	1,312	1.3%	0	0	1,329	1,312	0	0	0	0
North Carolina	3,850	3,868	-0.5%	3,850	3,868	0	0	0	0	0	0
South Carolina	3,565	4,620	-22.8%	3,565	4,620	0	0	0	0	0	0
Virginia	2,178	2,735	-20.4%	2,178	2,735	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,240	6,910	-9.7%	6,240	6,910	0	0	0	0	0	0
Alabama	3,789	3,491	8.5%	3,789	3,491	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,033	1,064	-2.9%	1,033	1,064	0	0	0	0	0	0
Tennessee	1,418	2,354	-39.8%	1,418	2,354	0	0	0	0	0	0
West South Central	4,462	5,646	-21.0%	910	2,948	3,553	2,697	0	0	0	0
Arkansas	215	1,348	-84.0%	215	1,348	0	0	0	0	0	0
Louisiana	694	1,601	-56.6%	694	1,601	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,553	2,697	31.7%	0	0	3,553	2,697	0	0	0	0
Mountain	2,351	2,394	-1.8%	2,351	2,394	0	0	0	0	0	0
Arizona	2,351	2,394	-1.8%	2,351	2,394	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	1,063	1,676	-36.6%	1,063	1,676	0	0	0	0	0	0
California	840	847	-0.8%	840	847	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	223	830	-73.1%	223	830	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	61,309	66,576	-7.9%	31,728	36,531	29,581	30,046	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	12,013	13,060	-8.0%	0	0	12,013	13,060	0	0	0	0
Connecticut	6,836	6,317	8.2%	0	0	6,836	6,317	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,607	2,394	-32.9%	0	0	1,607	2,394	0	0	0	0
New Hampshire	3,571	4,350	-17.9%	0	0	3,571	4,350	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	63,313	64,335	-1.6%	0	0	63,313	64,335	0	0	0	0
New Jersey	13,825	13,533	2.2%	0	0	13,825	13,533	0	0	0	0
New York	15,953	16,551	-3.6%	0	0	15,953	16,551	0	0	0	0
Pennsylvania	33,535	34,251	-2.1%	0	0	33,535	34,251	0	0	0	0
East North Central	62,600	63,948	-2.1%	11,246	10,788	51,354	53,160	0	0	0	0
Illinois	38,878	40,018	-2.8%	0	0	38,878	40,018	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13,209	13,746	-3.9%	11,246	10,788	1,962	2,958	0	0	0	0
Ohio	6,623	6,183	7.1%	0	0	6,623	6,183	0	0	0	0
Wisconsin	3,891	4,002	-2.8%	0	0	3,891	4,002	0	0	0	0
West North Central	19,522	20,187	-3.3%	17,311	17,976	2,211	2,212	0	0	0	0
Iowa	2,211	2,212	0.0%	0	0	2,211	2,212	0	0	0	0
Kansas	4,429	4,446	-0.4%	4,429	4,446	0	0	0	0	0	0
Minnesota	5,635	5,620	0.3%	5,635	5,620	0	0	0	0	0	0
Missouri	4,395	3,221	36.4%	4,395	3,221	0	0	0	0	0	0
Nebraska	2,853	4,689	-39.2%	2,853	4,689	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	81,949	85,356	-4.0%	75,927	79,499	6,022	5,857	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	11,489	12,760	-10.0%	11,489	12,760	0	0	0	0	0	0
Georgia	13,637	13,496	1.0%	13,637	13,496	0	0	0	0	0	0
Maryland	6,022	5,857	2.8%	0	0	6,022	5,857	0	0	0	0
North Carolina	16,683	17,223	-3.1%	16,683	17,223	0	0	0	0	0	0
South Carolina	21,325	23,426	-9.0%	21,325	23,426	0	0	0	0	0	0
Virginia	12,793	12,592	1.6%	12,793	12,592	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	32,270	30,889	4.5%	32,270	30,889	0	0	0	0	0	0
Alabama	17,265	16,583	4.1%	17,265	16,583	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	3,101	3,657	-15.2%	3,101	3,657	0	0	0	0	0	0
Tennessee	11,904	10,649	11.8%	11,904	10,649	0	0	0	0	0	0
West South Central	25,388	30,627	-17.1%	9,450	13,266	15,939	17,362	0	0	0	0
Arkansas	4,157	6,480	-35.9%	4,157	6,480	0	0	0	0	0	0
Louisiana	5,293	6,786	-22.0%	5,293	6,786	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	15,939	17,362	-8.2%	0	0	15,939	17,362	0	0	0	0
Mountain	13,106	13,356	-1.9%	13,106	13,356	0	0	0	0	0	0
Arizona	13,106	13,356	-1.9%	13,106	13,356	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	10,157	11,494	-11.6%	10,157	11,494	0	0	0	0	0	0
California	6,994	7,449	-6.1%	6,994	7,449	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,163	4,045	-21.8%	3,163	4,045	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	320,319	333,253	-3.9%	169,467	177,267	150,853	155,986	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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	718	537	33.6%	102	79	574	427	1	NM	42	31
Connecticut	35	NM	NM	4	NM	31	NM	0	0	0	0
Maine	334	246	36.2%	0	0	294	215	0	0	41	30
Massachusetts	90	67	34.6%	23	NM	65	49	1	NM	1	NM
New Hampshire	137	115	19.4%	31	30	107	85	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	122	86	41.6%	44	NM	77	NM	0	0	0	0
Middle Atlantic	2,813	2,571	9.4%	2,127	2,044	678	522	1	NM	7	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,515	2,318	8.5%	2,113	2,040	394	274	1	NM	7	NM
Pennsylvania	293	251	16.9%	14	NM	280	246	0	0	0	0
East North Central	520	462	12.6%	453	402	51	NM	0	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	8	NM	0	NM	0	0
Indiana	39	29	33.6%	39	29	0	0	0	0	0	0
Michigan	166	153	8.6%	153	141	NM	NM	0	0	NM	NM
Ohio	48	37	31.0%	26	21	22	NM	0	0	0	0
Wisconsin	256	233	10.1%	232	207	NM	NM	0	0	NM	NM
West North Central	1,388	835	66.2%	1,348	803	NM	NM	0	0	NM	NM
Iowa	90	90	0.6%	89	89	1	NM	0	0	0	0
Kansas	3	NM	NM	0	0	3	NM	0	0	0	0
Minnesota	74	83	-11.5%	NM	NM	NM	NM	0	0	NM	NM
Missouri	175	122	43.5%	175	122	0	0	0	0	0	0
Nebraska	177	166	6.8%	177	166	0	0	0	0	0	0
North Dakota	254	171	48.3%	254	171	0	0	0	0	0	0
South Dakota	616	202	205.5%	616	202	0	0	0	0	0	0
South Atlantic	1,759	1,247	41.1%	1,399	965	302	222	2	NM	56	59
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	25	NM	NM	25	NM	0	0	0	0	0	0
Georgia	313	218	43.5%	311	216	NM	NM	0	0	1	NM
Maryland	243	158	53.8%	0	0	243	158	0	0	0	0
North Carolina	546	344	59.0%	539	339	NM	NM	2	NM	NM	NM
South Carolina	322	199	61.8%	314	193	NM	NM	0	NM	0	0
Virginia	150	160	-6.1%	142	153	8	NM	0	0	0	NM
West Virginia	160	151	6.3%	68	NM	38	49	0	0	54	56
East South Central	2,491	1,054	136.4%	2,490	1,053	NM	NM	0	0	0	0
Alabama	1,091	379	187.9%	1,091	379	0	0	0	0	0	0
Kentucky	412	281	46.8%	411	280	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	988	394	150.7%	988	394	0	0	0	0	0	0
West South Central	893	756	18.2%	788	659	105	97	0	0	0	0
Arkansas	383	232	65.0%	380	228	NM	NM	0	0	0	0
Louisiana	100	90	10.2%	0	0	100	90	0	0	0	0
Oklahoma	282	301	-6.5%	282	301	0	0	0	0	0	0
Texas	129	132	-2.4%	126	129	2	NM	0	0	0	0
Mountain	3,474	3,647	-4.7%	3,327	3,494	145	152	2	NM	0	0
Arizona	637	594	7.3%	637	594	0	0	0	0	0	0
Colorado	232	182	27.6%	201	160	NM	NM	2	NM	0	0
Idaho	1,054	1,057	-0.3%	960	944	94	113	0	0	0	0
Montana	1,151	1,353	-14.9%	1,135	1,338	NM	NM	0	0	0	0
Nevada	168	195	-13.9%	163	193	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	98	83	17.6%	96	82	2	NM	0	0	0	0
Wyoming	112	168	-33.2%	112	167	0	NM	0	0	0	0
Pacific Contiguous	17,858	14,136	26.3%	17,501	13,903	355	230	2	NM	0	0
California	4,972	3,172	56.7%	4,684	2,999	286	170	2	NM	0	0
Oregon	3,844	3,209	19.8%	3,812	3,182	NM	NM	0	0	0	0
Washington	9,042	7,755	16.6%	9,004	7,722	NM	NM	0	0	0	0
Pacific Noncontiguous	208	118	76.0%	191	110	2	2	NM	0	NM	NM
Alaska	200	108	84.9%	191	108	0	0	NM	0	0	0
Hawaii	NM	NM	NM	1	NM	2	2	0	0	NM	NM
U.S. Total	32,122	25,362	26.7%	29,727	23,512	2,236	1,714	NM	NM	143	130

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	3,256	3,420	-4.8%	453	516	2,614	2,714	2	NM	187	187
Connecticut	150	164	-8.5%	13	NM	136	150	0	0	0	0
Maine	1,545	1,533	0.8%	0	0	1,362	1,349	0	0	183	184
Massachusetts	401	459	-12.7%	102	113	293	340	2	NM	4	NM
New Hampshire	612	696	-12.1%	143	180	469	516	0	0	0	0
Rhode Island	1	NM	NM	0	0	1	NM	0	0	0	0
Vermont	547	567	-3.4%	195	210	353	357	0	0	0	0
Middle Atlantic	13,222	13,317	-0.7%	10,156	9,948	3,030	3,338	3	NM	33	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	11,910	11,805	0.9%	10,099	9,916	1,775	1,858	3	NM	33	NM
Pennsylvania	1,296	1,499	-13.5%	57	NM	1,239	1,466	0	0	0	0
East North Central	2,426	2,273	6.7%	2,106	1,952	233	231	1	NM	86	88
Illinois	60	64	-6.8%	NM	NM	36	37	1	NM	0	0
Indiana	177	163	9.1%	177	163	0	0	0	0	0	0
Michigan	767	727	5.4%	708	666	NM	48	0	0	NM	NM
Ohio	218	218	-0.3%	118	120	100	98	0	0	0	0
Wisconsin	1,204	1,101	9.4%	1,080	978	NM	NM	0	0	NM	75
West North Central	6,319	4,730	33.6%	6,142	4,571	NM	101	0	0	68	58
Iowa	446	428	4.3%	443	425	3	NM	0	0	0	0
Kansas	12	NM	NM	0	0	12	NM	0	0	0	0
Minnesota	413	399	3.6%	251	253	NM	88	0	0	68	58
Missouri	752	748	0.4%	752	748	0	0	0	0	0	0
Nebraska	842	788	7.0%	842	788	0	0	0	0	0	0
North Dakota	1,140	789	44.5%	1,140	789	0	0	0	0	0	0
South Dakota	2,714	1,568	73.1%	2,714	1,568	0	0	0	0	0	0
South Atlantic	7,702	8,621	-10.6%	5,967	7,113	1,467	1,213	6	NM	263	286
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	113	113	0.8%	113	113	0	0	0	0	0	0
Georgia	1,442	1,716	-16.0%	1,431	1,701	NM	NM	0	0	7	NM
Maryland	1,214	963	26.1%	0	0	1,214	963	0	0	0	0
North Carolina	2,223	2,784	-20.2%	2,195	2,750	20	NM	5	NM	NM	NM
South Carolina	1,358	1,495	-9.2%	1,328	1,458	29	NM	1	NM	0	0
Virginia	615	851	-27.7%	581	809	34	NM	0	0	0	NM
West Virginia	737	699	5.4%	318	282	167	149	0	0	252	268
East South Central	11,114	10,852	2.4%	11,110	10,848	NM	NM	0	0	0	0
Alabama	4,676	5,251	-11.0%	4,676	5,251	0	0	0	0	0	0
Kentucky	1,930	1,625	18.8%	1,926	1,621	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,508	3,976	13.4%	4,508	3,976	0	0	0	0	0	0
West South Central	3,943	4,370	-9.8%	3,449	3,801	495	568	0	0	0	0
Arkansas	1,694	1,879	-9.9%	1,678	1,854	16	NM	0	0	0	0
Louisiana	466	525	-11.3%	0	0	466	525	0	0	0	0
Oklahoma	1,266	1,289	-1.7%	1,266	1,289	0	0	0	0	0	0
Texas	517	677	-23.6%	505	659	13	NM	0	0	0	0
Mountain	15,724	14,519	8.3%	15,105	13,969	616	547	4	NM	0	0
Arizona	3,107	3,091	0.5%	3,107	3,091	0	0	0	0	0	0
Colorado	999	924	8.1%	886	824	NM	96	4	NM	0	0
Idaho	4,738	4,500	5.3%	4,327	4,136	411	364	0	0	0	0
Montana	5,245	4,403	19.1%	5,171	4,335	NM	68	0	0	0	0
Nevada	621	782	-20.6%	607	773	NM	NM	0	0	0	0
New Mexico	NM	75	NM	NM	75	0	0	0	0	0	0
Utah	433	389	11.4%	426	384	8	NM	0	0	0	0
Wyoming	490	355	38.0%	490	350	0	NM	0	0	0	0
Pacific Contiguous	79,240	64,644	22.6%	77,738	63,799	1,491	836	11	NM	0	0
California	21,177	11,372	86.2%	19,984	10,813	1,182	550	11	NM	0	0
Oregon	17,973	17,412	3.2%	17,830	17,281	NM	132	0	0	0	0
Washington	40,090	35,860	11.8%	39,924	35,705	166	155	0	0	0	0
Pacific Noncontiguous	925	694	33.2%	865	660	7	7	NM	0	NM	NM
Alaska	888	650	36.6%	861	650	0	0	NM	0	0	0
Hawaii	NM	NM	NM	4	NM	7	7	0	0	NM	NM
U.S. Total	143,872	127,439	12.9%	133,090	117,177	10,066	9,559	NM	NM	661	675

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	1,031	833	23.7%	68	73	847	657	17	15	100	89
Connecticut	75	79	-5.8%	0	NM	74	79	0	0	0	0
Maine	452	317	42.3%	0	0	344	221	8	8	100	89
Massachusetts	227	188	21.0%	7	6	216	178	5	NM	0	NM
New Hampshire	176	162	8.9%	25	26	148	133	3	3	0	0
Rhode Island	31	22	43.1%	0	0	30	21	1	NM	0	0
Vermont	70	66	7.1%	36	40	35	26	0	NM	0	0
Middle Atlantic	1,250	1,027	21.7%	12	10	1,096	897	73	56	69	63
New Jersey	204	174	17.1%	12	10	155	139	35	24	NM	NM
New York	550	449	22.3%	0	0	512	416	23	19	15	15
Pennsylvania	496	403	23.0%	0	0	428	342	15	13	53	48
East North Central	2,614	2,309	13.2%	295	278	2,173	1,874	22	20	124	136
Illinois	1,070	910	17.6%	3	NM	1,067	907	NM	NM	0	0
Indiana	455	466	-2.3%	35	31	413	427	2	NM	NM	6
Michigan	633	523	21.1%	145	130	422	319	14	14	52	59
Ohio	212	157	34.7%	NM	NM	187	132	1	NM	20	21
Wisconsin	244	253	-3.5%	110	111	84	89	NM	3	45	50
West North Central	6,408	4,563	40.4%	2,066	1,552	4,265	2,953	16	8	61	50
Iowa	1,819	1,358	34.0%	1,192	854	622	496	NM	3	2	5
Kansas	1,644	1,110	48.1%	181	69	1,463	1,041	0	0	0	NM
Minnesota	1,174	880	33.4%	244	226	868	607	NM	4	57	44
Missouri	167	82	103.6%	NM	4	156	78	7	NM	0	NM
Nebraska	455	272	67.5%	25	21	428	250	2	NM	0	0
North Dakota	898	625	43.6%	340	306	556	319	0	0	1	NM
South Dakota	252	237	6.2%	80	73	172	164	0	0	0	0
South Atlantic	2,803	2,138	31.1%	301	167	1,624	1,053	32	45	845	874
Delaware	13	12	12.7%	NM	NM	11	10	NM	NM	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	497	416	19.6%	72	34	250	207	NM	4	172	171
Georgia	601	446	34.8%	29	7	269	124	NM	NM	302	314
Maryland	117	105	11.7%	NM	NM	108	91	NM	NM	6	10
North Carolina	850	590	44.2%	51	22	705	442	15	18	80	108
South Carolina	234	197	18.9%	35	34	39	29	0	0	160	133
Virginia	339	299	13.3%	112	67	92	76	11	20	124	136
West Virginia	147	75	97.6%	0	0	147	75	0	0	0	0
East South Central	518	511	1.3%	10	8	69	41	NM	NM	439	463
Alabama	275	275	-0.2%	NM	0	40	22	0	0	232	253
Kentucky	33	26	27.3%	7	8	1	NM	0	0	26	18
Mississippi	119	114	4.3%	0	0	NM	NM	0	0	116	113
Tennessee	91	96	-5.1%	0	0	25	17	NM	NM	66	79
West South Central	8,984	7,353	22.2%	142	132	8,438	6,807	8	7	395	407
Arkansas	117	95	23.5%	NM	NM	12	11	1	NM	104	83
Louisiana	227	232	-2.4%	0	0	8	8	0	0	219	224
Oklahoma	2,023	1,728	17.0%	116	107	1,906	1,596	0	0	1	25
Texas	6,617	5,298	24.9%	26	25	6,513	5,192	8	7	71	75
Mountain	4,015	3,136	28.0%	318	254	3,652	2,825	17	15	28	42
Arizona	606	481	26.1%	67	50	537	428	NM	NM	0	0
Colorado	979	793	23.5%	28	9	947	781	NM	NM	0	NM
Idaho	289	258	12.0%	NM	NM	260	216	1	NM	26	40
Montana	175	143	22.2%	19	15	155	126	0	0	1	NM
Nevada	767	615	24.7%	5	NM	754	603	9	8	0	NM
New Mexico	524	415	26.1%	27	27	496	388	NM	NM	0	0
Utah	347	167	107.4%	22	23	324	143	1	NM	0	0
Wyoming	329	264	24.7%	150	125	179	139	0	0	0	0
Pacific Contiguous	6,867	6,988	-1.7%	636	827	5,960	5,880	83	85	188	196
California	5,533	5,102	8.4%	234	235	5,172	4,738	79	82	47	46
Oregon	655	956	-31.5%	99	172	517	739	NM	2	35	43
Washington	680	931	-26.9%	302	419	271	403	NM	NM	105	107
Pacific Noncontiguous	140	118	19.1%	17	18	101	75	21	18	NM	7
Alaska	18	17	4.2%	9	8	NM	NM	4	4	NM	NM
Hawaii	123	101	21.6%	9	10	97	71	18	14	0	6
U.S. Total	34,631	28,978	19.5%	3,866	3,318	28,225	23,062	290	270	2,250	2,327

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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 May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	4,890	4,473	9.3%	360	361	3,926	3,567	80	66	525	478
Connecticut	338	377	-10.3%	1	NM	337	376	0	0	0	0
Maine	2,320	1,920	20.8%	0	0	1,759	1,408	37	35	525	477
Massachusetts	894	849	5.4%	33	34	837	797	24	16	0	NM
New Hampshire	815	867	-6.0%	109	109	691	747	14	12	0	0
Rhode Island	158	99	58.8%	0	0	154	96	3	NM	0	0
Vermont	365	361	1.1%	216	217	148	143	1	NM	0	0
Middle Atlantic	6,147	6,206	-1.0%	39	41	5,459	5,574	290	284	358	307
New Jersey	824	774	6.6%	39	41	648	602	133	129	NM	NM
New York	2,795	2,781	0.5%	0	0	2,617	2,608	91	88	86	85
Pennsylvania	2,528	2,652	-4.7%	0	0	2,194	2,364	66	67	268	220
East North Central	13,678	13,894	-1.6%	1,533	1,613	11,405	11,491	95	95	645	695
Illinois	5,725	5,647	1.4%	16	16	5,706	5,628	NM	NM	0	0
Indiana	2,362	2,872	-17.7%	159	142	2,164	2,693	9	8	NM	29
Michigan	3,167	3,079	2.8%	746	851	2,120	1,888	54	60	247	281
Ohio	1,137	975	16.6%	12	12	994	822	7	6	124	135
Wisconsin	1,287	1,322	-2.6%	599	593	421	460	23	18	244	251
West North Central	33,085	27,778	19.1%	10,594	9,707	22,138	17,777	68	64	285	229
Iowa	9,730	9,271	4.9%	6,390	5,806	3,310	3,421	12	18	17	27
Kansas	8,316	6,225	33.6%	772	403	7,542	5,815	0	0	1	7
Minnesota	6,061	5,439	11.4%	1,292	1,377	4,486	3,854	22	24	261	185
Missouri	835	605	38.0%	20	17	789	570	25	16	1	NM
Nebraska	2,410	1,653	45.8%	130	119	2,272	1,527	9	7	0	0
North Dakota	4,391	3,262	34.6%	1,565	1,566	2,822	1,687	0	0	3	9
South Dakota	1,343	1,323	1.5%	426	420	917	903	0	0	0	0
South Atlantic	12,587	10,464	20.3%	1,346	916	6,732	5,094	166	208	4,343	4,247
Delaware	53	53	0.7%	NM	NM	42	42	3	NM	NM	5
District of Columbia	21	0	--	0	0	21	0	0	0	0	0
Florida	2,481	2,006	23.7%	306	116	1,259	1,022	22	24	894	843
Georgia	2,738	2,124	28.9%	112	29	1,011	500	NM	5	1,614	1,590
Maryland	545	550	-0.9%	NM	3	486	490	NM	15	46	42
North Carolina	3,212	2,415	33.0%	164	102	2,565	1,771	66	75	418	467
South Carolina	1,116	979	13.9%	183	169	177	169	0	0	755	641
Virginia	1,698	1,677	1.3%	575	494	448	439	65	86	609	658
West Virginia	723	661	9.4%	0	0	723	661	0	0	0	0
East South Central	2,622	2,601	0.8%	41	36	284	198	NM	NM	2,295	2,366
Alabama	1,369	1,332	2.8%	NM	0	176	107	0	0	1,189	1,225
Kentucky	172	192	-10.6%	36	36	3	NM	0	0	132	154
Mississippi	614	622	-1.2%	0	0	NM	5	0	0	605	617
Tennessee	466	455	2.3%	0	0	96	83	NM	NM	368	371
West South Central	46,141	36,395	26.8%	854	722	43,190	33,539	35	39	2,062	2,095
Arkansas	607	595	2.0%	NM	NM	50	60	3	NM	554	533
Louisiana	1,079	1,097	-1.6%	0	0	37	39	0	0	1,042	1,058
Oklahoma	11,204	8,674	29.2%	714	604	10,384	7,945	0	0	106	125
Texas	33,251	26,028	27.7%	138	118	32,720	25,495	32	37	360	379
Mountain	18,187	16,208	12.2%	1,499	1,576	16,476	14,390	60	58	152	184
Arizona	2,300	1,850	24.3%	239	207	2,053	1,635	8	9	0	0
Colorado	4,832	4,536	6.5%	145	46	4,675	4,480	11	9	2	NM
Idaho	1,375	1,428	-3.8%	NM	5	1,223	1,247	4	3	142	173
Montana	928	990	-6.3%	100	103	820	879	0	0	8	9
Nevada	3,320	2,711	22.4%	17	14	3,274	2,665	30	31	0	NM
New Mexico	2,231	1,966	13.5%	94	100	2,135	1,865	NM	NM	0	0
Utah	1,478	683	116.4%	114	107	1,359	571	5	5	0	0
Wyoming	1,723	2,043	-15.7%	785	993	938	1,050	0	0	0	0
Pacific Contiguous	30,187	27,671	9.1%	3,035	3,407	25,745	22,840	395	427	1,012	997
California	23,444	20,047	16.9%	874	833	21,949	18,580	376	412	245	221
Oregon	3,007	3,452	-12.9%	387	551	2,395	2,682	NM	7	212	212
Washington	3,737	4,173	-10.4%	1,774	2,023	1,401	1,577	NM	8	555	564
Pacific Noncontiguous	662	580	14.1%	88	84	480	351	93	98	NM	46
Alaska	88	99	-11.4%	47	50	24	25	15	21	NM	3
Hawaii	574	481	19.4%	40	35	456	326	78	77	0	43
U.S. Total	168,186	146,272	15.0%	19,388	18,463	135,835	114,823	1,283	1,341	11,679	11,646

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	-30	-31	-1.6%	0	0	-30	-31	0	0	0	0
Connecticut	1	0	198.7%	0	0	1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-31	-31	-0.2%	0	0	-31	-31	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	-85	-80	7.3%	-43	-47	-43	-33	0	0	0	0
New Jersey	-11	-17	-33.3%	-11	-17	0	0	0	0	0	0
New York	-31	-30	4.1%	-31	-30	0	0	0	0	0	0
Pennsylvania	-43	-33	31.1%	0	0	-43	-33	0	0	0	0
East North Central	-49	-63	-21.8%	-49	-63	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	-49	-63	-21.8%	-49	-63	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	40	32	27.0%	40	32	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	40	32	27.0%	40	32	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	-280	-205	36.5%	-280	-205	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	-94	-54	73.4%	-94	-54	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	-116	-90	29.4%	-116	-90	0	0	0	0	0	0
Virginia	-71	-62	14.5%	-71	-62	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-51	-64	-19.2%	-51	-64	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	-51	-64	-19.2%	-51	-64	0	0	0	0	0	0
West South Central	-2	-2	1.4%	-2	-2	0	0	0	0	0	0
Arkansas	10	5	91.5%	10	5	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-7	63.5%	-12	-7	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-34	-20	65.8%	-34	-20	0	0	0	0	0	0
Arizona	-5	7	-168.8%	-5	7	0	0	0	0	0	0
Colorado	-29	-27	8.6%	-29	-27	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	70	113	-38.4%	70	113	0	0	0	0	0	0
California	66	113	-41.7%	66	113	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	0	-964.1%	3	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	-423	-321	31.9%	-350	-257	-73	-64	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	-170	-205	-17.1%	0	0	-170	-205	0	0	0	0
Connecticut	-5	1	NM	0	0	-5	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-165	-205	-19.7%	0	0	-165	-205	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	-442	-414	6.7%	-222	-230	-220	-184	0	0	0	0
New Jersey	-62	-70	-11.1%	-62	-70	0	0	0	0	0	0
New York	-159	-161	-0.7%	-159	-161	0	0	0	0	0	0
Pennsylvania	-220	-184	20.0%	0	0	-220	-184	0	0	0	0
East North Central	-223	-197	13.2%	-223	-197	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	-223	-197	13.2%	-223	-197	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	59	164	-64.1%	59	164	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	59	164	-64.1%	59	164	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	-1,242	-712	74.5%	-1,242	-712	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	-520	-52	901.3%	-520	-52	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	-380	-309	22.7%	-380	-309	0	0	0	0	0	0
Virginia	-342	-350	-2.3%	-342	-350	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-225	-227	-0.9%	-225	-227	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	-225	-227	-0.9%	-225	-227	0	0	0	0	0	0
West South Central	-27	1	NM	-27	1	0	0	0	0	0	0
Arkansas	16	27	-42.1%	16	27	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-43	-26	65.9%	-43	-26	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-148	-127	16.7%	-148	-127	0	0	0	0	0	0
Arizona	-18	6	-423.0%	-18	6	0	0	0	0	0	0
Colorado	-130	-133	-2.2%	-130	-133	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	119	-151	-178.7%	119	-151	0	0	0	0	0	0
California	116	-148	-178.3%	116	-148	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	-2	-205.2%	3	-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	-2,299	-1,867	23.1%	-1,909	-1,478	-390	-389	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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	161	167	-3.4%	0	0	144	151	8	8	9	8
Connecticut	49	51	-3.2%	0	0	49	51	0	0	0	0
Maine	34	29	17.3%	0	0	17	13	8	8	9	8
Massachusetts	74	82	-10.5%	0	0	74	82	0	0	0	0
New Hampshire	4	5	-8.9%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	191	205	-6.8%	0	0	143	169	43	36	6	0
New Jersey	42	42	0.5%	0	0	23	34	13	9	6	0
New York	79	82	-3.4%	0	0	59	63	21	19	0	0
Pennsylvania	69	81	-14.1%	0	0	61	72	9	8	0	0
East North Central	62	96	-36.1%	1	4	6	15	15	16	40	62
Illinois	6	21	-71.0%	0	0	-2	0	0	0	8	22
Indiana	29	36	-19.6%	0	0	0	0	1	NM	27	34
Michigan	23	33	-31.3%	0	2	8	15	13	14	1	2
Ohio	0	2	-91.1%	0	0	-1	NM	0	0	1	1
Wisconsin	NM	5	NM	1	2	0	0	0	0	NM	NM
West North Central	38	42	-9.2%	17	22	14	13	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	33	38	-12.6%	13	18	14	13	NM	NM	3	4
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	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	383	436	-12.1%	0	0	178	225	10	19	195	192
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	284	292	-2.7%	0	0	127	138	0	0	158	155
Georgia	8	8	-2.9%	0	0	0	0	0	0	8	8
Maryland	30	32	-7.3%	0	0	30	32	0	0	0	0
North Carolina	46	60	-22.7%	0	0	21	35	0	0	25	25
South Carolina	4	5	-4.6%	0	0	0	NM	0	0	4	4
Virginia	10	39	-75.6%	0	0	0	20	10	19	0	0
West Virginia	0	-1	-126.3%	0	0	0	-1	0	0	0	0
East South Central	2	3	-37.3%	0	1	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	1	-100.0%	0	1	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	2	-10.3%	0	0	0	0	0	0	2	2
West South Central	94	114	-17.2%	0	0	8	2	0	0	86	112
Arkansas	1	0	145.9%	0	0	0	0	0	0	1	0
Louisiana	47	56	-16.3%	0	0	0	0	0	0	47	56
Oklahoma	5	2	109.8%	0	0	4	1	0	0	1	NM
Texas	42	55	-24.6%	0	0	4	NM	0	0	37	54
Mountain	38	57	-32.8%	3	NM	26	31	0	0	10	26
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	9.9%	0	0	1	NM	0	0	4	NM
Idaho	6	7	-7.2%	0	0	0	0	0	0	6	7
Montana	25	29	-15.7%	0	0	25	29	0	0	0	0
Nevada	2	0	--	2	0	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	0	17	-99.6%	0	0	0	NM	0	0	0	16
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	78	77	1.6%	0	NM	26	30	0	0	52	47
California	69	67	2.5%	0	NM	17	20	0	0	52	47
Oregon	3	4	-18.8%	0	0	3	4	0	0	0	0
Washington	6	6	5.7%	0	0	6	6	0	0	0	0
Pacific Noncontiguous	32	14	136.5%	15	0	0	0	17	13	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	33	14	138.0%	16	0	0	0	17	13	0	0
U.S. Total	1,080	1,211	-10.8%	35	27	545	636	95	95	405	453

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	747	784	-4.7%	0	0	655	706	34	38	58	41
Connecticut	220	247	-10.9%	0	0	220	247	0	0	0	0
Maine	171	148	15.5%	0	0	79	69	34	38	58	41
Massachusetts	336	367	-8.3%	0	0	336	367	0	0	0	0
New Hampshire	20	22	-9.1%	0	0	20	22	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	924	963	-4.0%	0	0	714	779	182	184	29	0
New Jersey	238	220	7.9%	0	0	147	163	61	57	29	0
New York	348	364	-4.4%	0	0	265	278	82	86	0	0
Pennsylvania	339	379	-10.5%	0	0	301	338	38	41	0	0
East North Central	391	428	-8.5%	62	19	33	71	60	67	236	271
Illinois	92	95	-3.7%	0	0	-7	-2	0	0	99	98
Indiana	119	150	-20.5%	0	0	0	0	8	7	112	143
Michigan	102	147	-30.9%	0	11	43	66	52	60	6	10
Ohio	57	11	420.3%	56	0	-3	6	0	0	4	5
Wisconsin	21	24	-13.0%	6	8	0	0	0	0	NM	16
West North Central	181	192	-5.9%	80	98	64	59	13	14	24	22
Iowa	2	NM	NM	0	0	0	0	0	0	2	NM
Kansas	2	0	--	0	0	0	0	0	0	2	0
Minnesota	159	167	-5.1%	62	75	64	59	13	14	20	20
Missouri	1	6	-87.5%	1	6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	18	17	4.6%	18	17	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,794	1,956	-8.2%	0	0	901	1,015	58	80	835	860
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	1,307	1,318	-0.9%	0	0	649	632	0	0	658	686
Georgia	48	48	0.4%	0	0	0	0	0	0	48	48
Maryland	124	126	-1.5%	0	0	124	126	0	NM	0	0
North Carolina	212	277	-23.5%	0	0	99	164	0	0	113	113
South Carolina	19	15	22.1%	0	0	3	NM	0	0	16	13
Virginia	85	174	-51.0%	0	0	27	94	58	80	0	0
West Virginia	-1	-3	-74.4%	0	0	-1	-3	0	0	0	0
East South Central	21	34	-38.5%	11	23	0	0	0	0	10	11
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	11	23	-53.1%	11	23	0	0	0	0	0	0
Mississippi	2	NM	NM	0	0	0	0	0	0	2	NM
Tennessee	8	8	0.4%	0	0	0	0	0	0	8	8
West South Central	483	548	-11.8%	0	0	45	13	0	0	438	535
Arkansas	2	3	-21.1%	0	0	0	0	0	0	2	3
Louisiana	235	262	-10.1%	0	0	0	0	0	0	235	262
Oklahoma	13	14	-10.6%	0	0	15	8	0	0	-2	6
Texas	233	269	-13.5%	0	0	30	5	0	0	203	264
Mountain	275	268	2.5%	13	NM	144	154	0	0	117	114
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	23	21	13.5%	0	0	7	6	0	0	17	15
Idaho	27	31	-10.8%	0	0	0	0	0	0	27	31
Montana	137	147	-6.6%	0	0	137	147	0	0	0	0
Nevada	13	NM	NM	13	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	52	69	-25.3%	0	0	0	NM	0	0	51	68
Wyoming	22	0	--	0	0	0	0	0	0	22	0
Pacific Contiguous	398	343	16.1%	0	NM	124	115	0	0	274	228
California	358	298	20.0%	0	NM	84	70	0	0	274	228
Oregon	17	19	-13.5%	0	NM	17	19	0	0	0	0
Washington	24	26	-7.4%	0	0	24	26	0	0	0	0
Pacific Noncontiguous	146	79	85.4%	69	NM	2	4	75	74	0	0
Alaska	-1	NM	NM	-1	NM	0	0	0	0	0	0
Hawaii	147	79	87.7%	70	0	2	4	75	74	0	0
U.S. Total	5,362	5,595	-4.2%	236	143	2,683	2,915	422	457	2,021	2,080

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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 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	298	181	64.2%	22	20	274	158	2	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	199	108	84.5%	0	0	199	108	0	0	0	0
Massachusetts	20	18	9.3%	5	NM	13	11	1	NM	0	NM
New Hampshire	37	29	27.2%	0	0	37	29	0	0	0	0
Rhode Island	13	NM	NM	0	0	13	NM	1	NM	0	0
Vermont	27	24	14.5%	17	16	10	8	0	0	0	0
Middle Atlantic	614	428	43.4%	0	0	614	427	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	332	239	39.0%	0	0	332	238	0	0	0	NM
Pennsylvania	280	187	49.5%	0	0	280	187	0	0	0	0
East North Central	2,090	1,785	17.1%	225	209	1,859	1,571	NM	NM	NM	NM
Illinois	1,017	855	18.9%	NM	NM	1,016	854	NM	NM	0	0
Indiana	381	403	-5.3%	0	0	381	402	0	NM	0	0
Michigan	422	315	34.1%	137	128	285	187	0	0	0	0
Ohio	140	89	57.3%	NM	NM	134	83	0	NM	NM	NM
Wisconsin	129	123	4.8%	85	78	43	45	0	0	1	NM
West North Central	6,126	4,364	40.4%	2,022	1,504	4,101	2,858	NM	NM	0	0
Iowa	1,807	1,336	35.2%	1,189	851	617	484	0	NM	0	0
Kansas	1,639	1,104	48.5%	181	69	1,457	1,035	0	0	0	0
Minnesota	941	730	28.9%	213	191	726	537	NM	NM	0	0
Missouri	146	69	110.4%	0	0	146	69	0	0	0	0
Nebraska	445	263	69.1%	19	13	426	250	0	0	0	0
North Dakota	897	625	43.5%	340	306	556	319	0	0	0	0
South Dakota	252	237	6.1%	80	73	172	164	0	0	0	0
South Atlantic	240	102	134.7%	0	0	239	102	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	43	28	55.7%	0	0	43	28	0	0	0	0
North Carolina	49	0	--	0	0	49	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	147	74	98.7%	0	0	147	74	0	0	0	0
East South Central	NM	3	NM	0	0	NM	3	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	3	NM	0	0	NM	3	0	0	0	0
West South Central	8,273	6,799	21.7%	140	130	8,128	6,665	4	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,021	1,702	18.8%	115	107	1,906	1,595	0	0	0	0
Texas	6,252	5,097	22.7%	25	23	6,222	5,070	4	NM	0	0
Mountain	2,119	1,818	16.6%	197	149	1,920	1,667	NM	NM	0	NM
Arizona	63	55	15.0%	0	0	63	55	0	0	0	0
Colorado	863	740	16.7%	28	9	834	729	NM	NM	0	NM
Idaho	180	190	-5.2%	0	0	180	190	0	0	0	0
Montana	173	141	22.9%	19	15	155	126	0	0	0	0
Nevada	36	25	42.5%	0	0	36	25	0	0	0	0
New Mexico	394	337	17.1%	0	0	394	336	NM	NM	0	0
Utah	80	66	20.7%	0	0	80	66	0	0	0	0
Wyoming	329	264	24.7%	150	125	179	139	0	0	0	0
Pacific Contiguous	2,491	3,251	-23.4%	446	660	2,044	2,590	1	NM	1	NM
California	1,437	1,602	-10.2%	94	91	1,342	1,509	1	NM	1	NM
Oregon	535	853	-37.3%	93	164	442	689	0	0	0	0
Washington	519	797	-34.9%	259	405	260	392	0	0	0	0
Pacific Noncontiguous	73	64	14.1%	9	8	64	55	0	0	0	0
Alaska	13	13	4.5%	9	8	NM	NM	0	0	0	0
Hawaii	60	51	16.5%	0	0	60	51	0	0	0	0
U.S. Total	22,326	18,795	18.8%	3,062	2,681	19,245	16,096	13	13	6	6

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	1,609	1,158	39.0%	118	114	1,477	1,027	14	16	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,090	697	56.3%	0	0	1,090	697	0	0	0	0
Massachusetts	108	104	4.3%	28	29	70	61	10	13	0	NM
New Hampshire	195	208	-6.3%	0	0	195	208	0	0	0	0
Rhode Island	66	5	NM	0	0	63	NM	3	NM	0	0
Vermont	143	136	5.0%	90	85	53	52	0	0	0	0
Middle Atlantic	3,274	3,420	-4.2%	0	0	3,274	3,418	0	0	1	NM
New Jersey	NM	10	NM	0	0	NM	10	0	0	0	0
New York	1,792	1,801	-0.5%	0	0	1,791	1,799	0	0	1	NM
Pennsylvania	1,473	1,609	-8.4%	0	0	1,473	1,609	0	0	0	0
East North Central	11,166	11,379	-1.9%	1,191	1,309	9,941	10,036	NM	NM	29	29
Illinois	5,471	5,390	1.5%	6	7	5,463	5,381	NM	NM	0	0
Indiana	2,057	2,592	-20.6%	0	0	2,057	2,591	1	NM	0	0
Michigan	2,177	2,063	5.5%	732	845	1,445	1,218	0	0	0	0
Ohio	782	629	24.4%	NM	6	751	595	2	NM	25	26
Wisconsin	677	705	-3.9%	448	450	226	251	0	0	4	NM
West North Central	31,859	26,808	18.8%	10,380	9,485	21,464	17,308	15	15	0	0
Iowa	9,662	9,163	5.4%	6,374	5,794	3,285	3,368	2	NM	0	0
Kansas	8,288	6,191	33.9%	772	403	7,516	5,788	0	0	0	0
Minnesota	5,065	4,730	7.1%	1,144	1,219	3,908	3,498	13	14	0	0
Missouri	748	536	39.5%	0	0	748	536	0	0	0	0
Nebraska	2,366	1,611	46.8%	98	84	2,267	1,527	0	0	0	0
North Dakota	4,388	3,252	34.9%	1,565	1,566	2,822	1,687	0	0	0	0
South Dakota	1,342	1,323	1.4%	426	420	916	903	0	0	0	0
South Atlantic	1,179	902	30.7%	0	0	1,176	899	3	NM	0	0
Delaware	3	NM	NM	0	0	0	0	3	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	227	241	-5.5%	0	0	227	241	0	0	0	0
North Carolina	227	0	--	0	0	227	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	722	659	9.6%	0	0	722	659	0	0	0	0
East South Central	15	22	-30.6%	0	0	15	22	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	15	22	-30.6%	0	0	15	22	0	0	0	0
West South Central	42,950	33,612	27.8%	850	716	42,083	32,877	18	19	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	11,094	8,542	29.9%	712	602	10,381	7,940	0	0	0	0
Texas	31,857	25,070	27.1%	137	114	31,702	24,937	18	19	0	0
Mountain	10,704	10,770	-0.6%	1,029	1,142	9,666	9,621	NM	NM	2	NM
Arizona	306	241	26.8%	0	0	306	241	0	0	0	0
Colorado	4,410	4,327	1.9%	145	46	4,259	4,276	NM	NM	2	NM
Idaho	944	1,124	-16.0%	0	0	944	1,124	0	0	0	0
Montana	920	982	-6.3%	100	103	820	879	0	0	0	0
Nevada	178	126	41.4%	0	0	178	126	0	0	0	0
New Mexico	1,772	1,658	6.9%	0	0	1,771	1,656	NM	NM	0	0
Utah	450	269	67.1%	0	0	450	269	0	0	0	0
Wyoming	1,723	2,043	-15.7%	785	993	938	1,050	0	0	0	0
Pacific Contiguous	12,228	11,891	2.8%	2,219	2,593	10,004	9,293	3	NM	2	NM
California	6,896	5,571	23.8%	285	222	6,606	5,344	3	NM	2	NM
Oregon	2,404	2,936	-18.1%	359	513	2,045	2,423	0	0	0	0
Washington	2,928	3,384	-13.5%	1,575	1,858	1,353	1,526	0	0	0	0
Pacific Noncontiguous	385	295	30.6%	47	50	338	245	0	0	0	0
Alaska	71	75	-5.6%	47	50	24	25	0	0	0	0
Hawaii	314	220	43.0%	0	0	314	220	0	0	0	0
U.S. Total	115,370	100,254	15.1%	15,834	15,408	99,439	84,747	64	64	33	35

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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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	607	578	5.0%	38	50	455	428	14	11	100	89
Connecticut	69	76	-9.2%	0	0	69	76	0	0	0	0
Maine	253	209	20.6%	0	0	145	113	8	8	100	89
Massachusetts	103	107	-3.4%	0	0	100	106	2	NM	0	0
New Hampshire	139	132	4.9%	25	26	110	103	3	3	0	0
Rhode Island	16	19	-16.8%	0	0	16	19	0	0	0	0
Vermont	28	35	-20.1%	13	24	15	NM	0	NM	0	0
Middle Atlantic	466	483	-3.5%	0	0	349	379	51	42	67	62
New Jersey	67	78	-14.0%	0	0	52	68	15	11	0	0
New York	194	195	-0.8%	0	0	157	163	22	18	15	14
Pennsylvania	205	209	-2.0%	0	0	140	149	14	13	52	47
East North Central	452	486	-7.0%	48	62	265	274	21	19	118	131
Illinois	47	50	-5.2%	2	NM	45	48	0	0	0	0
Indiana	32	39	-17.0%	21	27	4	5	1	2	NM	6
Michigan	203	206	-1.4%	0	0	137	133	14	14	52	59
Ohio	57	61	-7.2%	NM	NM	40	44	1	NM	15	16
Wisconsin	112	130	-13.5%	24	33	39	44	NM	3	45	49
West North Central	194	194	0.2%	43	48	77	90	13	5	61	50
Iowa	12	22	-45.6%	NM	NM	5	11	NM	3	2	5
Kansas	NM	6	NM	0	0	NM	5	0	0	0	NM
Minnesota	152	149	2.4%	30	34	63	69	NM	2	57	44
Missouri	15	9	73.5%	NM	4	NM	5	7	0	0	NM
Nebraska	9	9	1.1%	7	7	0	0	2	NM	0	0
North Dakota	1	NM	NM	0	0	0	0	0	0	1	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,548	1,529	1.2%	141	110	545	514	16	31	845	874
Delaware	NM	7	NM	0	0	NM	5	0	0	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	424	385	10.1%	8	10	240	200	NM	4	172	171
Georgia	365	376	-2.9%	0	0	63	61	0	NM	302	314
Maryland	44	52	-15.2%	0	0	37	40	NM	NM	6	10
North Carolina	172	215	-19.9%	0	0	91	102	NM	6	80	108
South Carolina	229	196	16.8%	35	34	34	29	0	0	160	133
Virginia	304	298	1.9%	98	67	71	76	11	20	124	136
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	474	501	-5.4%	5	8	30	30	0	0	439	463
Alabama	254	275	-7.9%	0	0	22	22	0	0	232	253
Kentucky	31	26	19.9%	5	8	1	NM	0	0	26	18
Mississippi	117	114	2.9%	0	0	NM	NM	0	0	116	113
Tennessee	72	86	-16.0%	0	0	6	7	0	0	66	79
West South Central	463	496	-6.6%	0	2	64	85	4	3	395	407
Arkansas	114	91	24.4%	0	0	9	8	1	NM	104	83
Louisiana	227	232	-2.4%	0	0	8	8	0	0	219	224
Oklahoma	1	26	-95.6%	0	0	0	NM	0	0	1	25
Texas	122	146	-16.8%	0	2	48	67	3	3	71	75
Mountain	91	99	-8.5%	NM	NM	60	55	2	2	28	42
Arizona	20	20	0.3%	0	0	20	20	0	0	0	0
Colorado	14	7	93.3%	0	0	14	7	0	0	0	0
Idaho	45	59	-23.5%	NM	NM	17	18	1	NM	26	40
Montana	1	NM	NM	0	0	0	0	0	0	1	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	-9.4%	0	0	6	6	1	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	745	707	5.4%	60	42	431	398	68	72	186	195
California	508	490	3.6%	12	22	387	355	64	69	46	45
Oregon	76	83	-8.3%	NM	6	33	32	NM	2	35	43
Washington	161	134	20.3%	43	14	11	11	NM	NM	105	107
Pacific Noncontiguous	27	29	-8.9%	5	5	0	0	21	18	NM	7
Alaska	4	4	3.2%	0	0	0	0	4	4	NM	NM
Hawaii	22	25	-11.0%	5	5	0	0	18	14	0	6
U.S. Total	5,067	5,103	-0.7%	340	328	2,277	2,253	210	204	2,240	2,318

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

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

by State, by Sector, Year-to-Date through May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	2,895	3,022	-4.2%	214	239	2,093	2,258	64	48	525	477
Connecticut	315	362	-12.9%	0	0	315	362	0	0	0	0
Maine	1,230	1,223	0.6%	0	0	668	711	37	35	525	477
Massachusetts	472	493	-4.2%	0	0	461	492	12	NM	0	0
New Hampshire	620	658	-5.9%	109	109	496	538	14	12	0	0
Rhode Island	85	87	-2.4%	0	0	85	87	0	0	0	0
Vermont	173	199	-13.0%	105	130	67	68	1	NM	0	0
Middle Atlantic	2,336	2,330	0.2%	0	0	1,760	1,804	225	225	351	301
New Jersey	389	397	-2.0%	0	0	316	324	73	72	0	0
New York	922	918	0.5%	0	0	748	747	89	87	86	83
Pennsylvania	1,024	1,015	0.9%	0	0	696	732	64	66	265	217
East North Central	2,288	2,365	-3.2%	276	279	1,308	1,333	89	89	616	664
Illinois	234	236	-0.9%	9	8	224	228	0	0	0	0
Indiana	170	184	-8.0%	111	126	21	22	8	7	NM	29
Michigan	976	1,011	-3.4%	0	NM	675	670	54	60	247	281
Ohio	306	318	-3.6%	NM	NM	200	205	4	3	99	107
Wisconsin	603	616	-2.2%	151	143	188	208	23	18	241	248
West North Central	980	952	2.9%	210	221	433	453	52	49	285	229
Iowa	66	108	-39.0%	14	12	25	53	NM	17	17	27
Kansas	26	33	-19.8%	0	0	25	26	0	0	1	7
Minnesota	777	704	10.3%	146	158	361	352	NM	10	261	185
Missouri	67	56	19.1%	20	17	22	23	24	15	1	NM
Nebraska	40	41	-4.0%	31	34	0	0	9	7	0	0
North Dakota	3	9	-63.0%	0	0	0	0	0	0	3	9
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	7,917	7,656	3.4%	745	702	2,718	2,554	112	153	4,343	4,247
Delaware	30	30	0.2%	0	0	24	25	0	0	NM	5
District of Columbia	21	0	--	0	0	21	0	0	0	0	0
Florida	2,183	1,903	14.7%	37	40	1,231	996	NM	23	894	843
Georgia	1,886	1,871	0.8%	0	0	271	277	0	4	1,614	1,590
Maryland	212	214	-1.2%	0	0	159	160	NM	12	46	42
North Carolina	909	982	-7.5%	0	0	471	487	NM	28	418	467
South Carolina	1,100	978	12.5%	183	169	162	168	0	0	755	641
Virginia	1,576	1,675	-5.9%	524	492	377	439	65	86	609	658
West Virginia	1	NM	NM	0	0	1	NM	0	0	0	0
East South Central	2,473	2,549	-3.0%	30	36	149	147	0	0	2,295	2,366
Alabama	1,298	1,332	-2.5%	0	0	110	107	0	0	1,189	1,225
Kentucky	165	192	-14.2%	30	36	3	NM	0	0	132	154
Mississippi	611	622	-1.8%	0	0	NM	5	0	0	605	617
Tennessee	399	403	-0.9%	0	0	31	32	0	0	368	371
West South Central	2,438	2,510	-2.9%	0	4	360	393	17	19	2,062	2,095
Arkansas	596	583	2.1%	0	0	39	49	3	NM	554	533
Louisiana	1,079	1,097	-1.6%	0	0	37	39	0	0	1,042	1,058
Oklahoma	108	130	-16.8%	0	0	2	5	0	0	106	125
Texas	656	700	-6.3%	0	4	282	300	14	17	360	379
Mountain	446	452	-1.4%	NM	5	281	257	10	8	150	182
Arizona	90	86	4.5%	0	0	90	86	0	0	0	0
Colorado	70	41	72.2%	0	0	70	41	0	0	0	0
Idaho	228	264	-13.9%	NM	5	76	82	4	3	142	173
Montana	8	9	-4.7%	0	0	0	0	0	0	8	9
Nevada	NM	11	NM	0	0	NM	11	0	0	0	0
New Mexico	7	8	-3.5%	0	0	7	8	0	0	0	0
Utah	33	34	-4.8%	0	0	28	29	5	5	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,683	3,678	0.2%	289	279	2,044	2,032	343	375	1,007	991
California	2,462	2,480	-0.7%	66	87	1,833	1,819	324	360	239	215
Oregon	412	409	0.8%	25	28	163	162	NM	7	212	212
Washington	809	788	2.6%	198	165	49	51	NM	8	555	564
Pacific Noncontiguous	118	161	-26.8%	22	16	0	0	93	98	NM	46
Alaska	17	24	-29.4%	0	0	0	0	15	21	NM	3
Hawaii	100	136	-26.4%	22	16	0	0	78	77	0	43
U.S. Total	25,575	25,674	-0.4%	1,791	1,781	11,144	11,230	1,004	1,065	11,635	11,598

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 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	370	384	-3.5%	22	23	349	361	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	8	-8.3%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	320	328	-2.4%	0	0	320	328	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	42	47	-10.6%	22	23	20	24	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,031	1,075	-4.1%	67	73	964	1,002	0	0	0	0
California	1,012	1,060	-4.5%	67	71	945	989	0	0	0	0
Oregon	19	15	27.8%	0	NM	19	14	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	20	17	21.0%	0	0	20	17	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	20	17	21.0%	0	0	20	17	0	0	0	0
U.S. Total	1,422	1,476	-3.7%	89	95	1,333	1,381	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 May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	1,943	1,912	1.6%	114	107	1,829	1,805	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	39	40	-1.3%	0	0	39	40	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,675	1,645	1.8%	0	0	1,675	1,645	0	0	0	0
New Mexico	7	6	4.4%	0	0	7	6	0	0	0	0
Utah	223	221	0.9%	114	107	108	114	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,318	5,114	4.0%	325	334	4,993	4,780	0	0	0	0
California	5,213	5,025	3.7%	323	327	4,890	4,698	0	0	0	0
Oregon	105	89	17.7%	2	NM	103	82	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	106	93	13.2%	0	0	106	93	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	106	93	13.2%	0	0	106	93	0	0	0	0
U.S. Total	7,367	7,119	3.5%	439	441	6,928	6,678	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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	351	252	39.6%	126	74	225	178	8	NM	118	71	NM	NM	NM	NM	125	98	10	8	0	0	10	8	90	71
Connecticut	46	34	34.8%	5	NM	41	31	0	NM	4	NM	15	13	0	0	15	13	2	2	0	0	2	2	24	17
Maine	4	3	38.6%	0	0	4	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	258	190	35.6%	104	63	153	127	NM	NM	102	61	NM	NM	NM	NM	98	78	7	7	0	0	7	7	48	42
New Hampshire	9	5	77.3%	0	0	9	5	0	0	0	0	3	1	0	0	3	1	1	0	0	0	1	0	6	4
Rhode Island	NM	4	NM	NM	NM	5	2	0	0	NM	NM	3	1	0	0	3	1	0	0	0	0	0	0	3	1
Vermont	27	15	75.3%	15	7	12	9	6	NM	9	6	4	3	0	0	4	3	0	0	0	0	0	0	8	6
Middle Atlantic	537	410	31.0%	170	116	367	294	12	10	133	90	200	178	22	14	179	164	NM	NM	NM	NM	18	17	170	113
New Jersey	331	264	25.3%	135	94	196	170	12	10	101	70	137	129	20	13	117	115	NM	NM	NM	NM	11	9	69	46
New York	150	108	38.8%	24	15	126	93	0	0	24	15	NM	NM	NM	NM	46	35	1	2	0	0	1	2	78	56
Pennsylvania	56	37	49.4%	11	7	45	31	0	0	9	5	NM	NM	NM	NM	16	14	NM	NM	NM	NM	6	6	23	11
East North Central	108	64	70.1%	73	38	36	26	23	7	49	30	NM	NM	NM	NM	22	18	NM	NM	0	NM	NM	NM	12	7
Illinois	12	9	30.6%	6	5	6	4	0	NM	6	5	3	3	0	0	3	3	NM	0	0	0	NM	0	2	1
Indiana	44	26	72.1%	41	24	3	1	14	NM	27	20	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Michigan	NM	7	NM	8	NM	NM	5	8	NM	0	0	5	3	0	0	5	3	NM	NM	0	0	NM	NM	3	1
Ohio	29	19	54.8%	15	7	14	12	NM	NM	13	5	NM	NM	NM	NM	11	9	NM	NM	0	NM	NM	0	3	2
Wisconsin	NM	4	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	1
West North Central	125	33	278.3%	88	NM	36	28	NM	0	87	NM	20	NM	0	NM	20	16	1	0	0	0	1	0	16	12
Iowa	NM	6	NM	NM	0	8	6	NM	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	2	2
Kansas	2	1	29.2%	0	NM	1	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Minnesota	86	5	NM	80	NM	6	4	NM	0	80	NM	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Missouri	26	21	25.6%	6	NM	20	17	0	0	5	NM	11	NM	0	NM	11	9	0	0	0	0	0	0	9	8
Nebraska	NM	0	NM	NM	0	1	0	0	0	NM	0	NM	NM	0	0	NM	NM	NM	0	0	0	NM	0	0	0
North Dakota	0	0	13.2%	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	1,215	636	91.0%	1,015	493	200	143	160	42	839	437	95	99	16	14	80	86	24	5	0	0	24	5	97	52
Delaware	21	17	25.4%	7	5	14	12	NM	NM	6	4	NM	NM	NM	NM	8	8	1	0	0	0	1	0	6	4
District of Columbia	7	5	40.9%	0	0	7	5	0	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	2	2
Florida	102	42	146.0%	73	17	29	24	63	11	10	6	NM	NM	NM	NM	10	13	1	1	0	0	1	1	18	11
Georgia	NM	87	NM	236	70	NM	NM	29	7	206	62	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	115	87	32.8%	30	25	85	62	NM	NM	28	24	NM	NM	NM	NM	32	30	4	4	0	0	4	4	49	27
North Carolina	649	390	66.3%	629	374	20	16	51	22	564	340	28	24	14	12	15	12	0	0	0	0	0	0	5	4
South Carolina	19	3	610.6%	5	NM	14	2	0	0	5	NM	3	1	0	0	3	1	NM	NM	0	0	NM	NM	10	2
Virginia	42	5	748.1%	35	NM	7	4	14	NM	20	0	3	2	0	0	3	2	NM	NM	0	0	NM	NM	4	2
West Virginia	1	1	28.4%	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	58	17	246.0%	41	7	17	9	5	0	36	7	NM	NM	NM	NM	11	9	NM	0	0	0	NM	0	6	1
Alabama	NM	0	NM	21	0	NM	0	NM	0	19	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	4	2	143.1%	2	0	2	2	2	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	1	0
Mississippi	NM	1	NM	NM	0	5	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	4	0
Tennessee	25	14	77.2%	16	7	9	7	0	0	16	7	NM	NM	NM	NM	7	7	0	0	0	0	0	0	1	0
West South Central	339	112	201.7%	247	58	91	54	NM	NM	246	57	26	NM	0	NM	26	15	NM	0	0	0	NM	0	65	39
Arkansas	4	4	4.1%	3	NM	1	1	NM	NM	3	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	22	20	11.6%	0	0	22	20	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	20	18
Oklahoma	3	1	185.5%	1	1	2	1	1	1	0	0	1	0	0	0	1	0	NM	0	0	0	NM	0	NM	0
Texas	310	88	253.4%	244	55	66	33	NM	0	243	54	23	NM	0	NM	23	13	0	0	0	0	0	0	43	20
Mountain	1,646	1,006	63.7%	1,331	718	315	288	99	81	1,219	625	91	109	13	12	78	97	17	NM	0	NM	17	19	221	172
Arizona	617	487	26.7%	436	317	181	170	67	50	367	265	NM	NM	NM	NM	45	55	13	16	0	0	13	16	123	99
Colorado	155	93	67.1%	102	46	54	47	0	0	100	45	NM	NM	NM	NM	22	20	0	0	0	0	0	0	32	26
Idaho	57	1	NM	56	0	2	1	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	2	1	35.4%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	428	271	58.3%	392	232	36	39	5	NM	379	220	12	18	9	8	3	9	2	NM	0	NM	2	2	31	27
New Mexico	140	92	51.7%	127	76	13	16	27	27	100	49	1	7	0	0	1	7	0	0	0	0	0	0	12	9
Utah	247	60	307.8%	218	47	28	14	0	0	218	47	6	4	0	0	6	4	1	1	0	0	1	1	21	9
Wyoming	0	0	32.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	3,401	2,555	33.1%	2,302	1,697	1,099	857	62	52	2,224	1,632	251	207	15	13	236	194	NM	NM	NM	NM	178	131	685	532
California	3,344	2,528	32.3%	2,278	1,693	1,066	835	61	51	2,201	1,628	239	201	15	13	224	188	NM	NM	NM	NM	177	130	665	517
Oregon	45	17	160.1%	25	NM	20	13	NM	NM	24	NM	9	5	0	0	9	5	1	1	0	0	1	1	10	7
Washington	13	10	28.2%	0	0	13	10	0	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	11	8
Pacific Noncontiguous	113	76	48.5%	21	8	92	68	4	NM	16	NM	34	23	0	0	34	23	0	0	0	0	0	0	58	45
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	113	76	48.2%	21	8	92	68	4	NM	16	NM	34	23	0	0	34	23	0	0	0	0	0	0	58	45
U.S. Total	7,893	5,160	53.0%	5,414	3,215	2,479	1,945	375	200	4,968	2,958	876	773	67	54	809	719	254	NM	4	NM	250	181	1,420	1,044

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 May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	1,261	973	29.6%	386	293	875	680	27	8	356	283	500	388	2	NM	497	386	39	32	0	0	39	32	339	262
Connecticut	177	130	36.1%	17	9	161	121	1	NM	15	8	64	50	0	0	64	50	8	6	0	0	8	6	88	66
Maine	16	12	36.4%	0	0	16	12	0	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	10	7
Massachusetts	914	739	23.7%	314	252	600	487	5	5	306	244	391	312	2	NM	389	309	28	26	0	0	28	26	183	152
New Hampshire	35	20	80.3%	0	0	35	20	0	0	0	0	12	6	0	0	12	6	2	1	0	0	2	1	21	13
Rhode Island	25	15	64.1%	7	7	18	8	0	0	7	7	9	6	0	0	9	6	0	0	0	0	0	0	9	2
Vermont	94	58	62.7%	48	25	45	32	21	NM	28	23	18	11	0	0	18	11	0	0	0	0	0	0	27	21
Middle Atlantic	1,932	1,605	20.3%	537	457	1,395	1,148	39	41	426	352	782	714	65	59	716	655	81	71	7	5	74	67	604	427
New Jersey	1,212	1,049	15.6%	426	367	786	682	39	41	323	268	544	523	61	56	483	467	47	37	NM	NM	43	36	259	179
New York	534	406	31.6%	81	62	454	344	0	0	78	61	172	135	NM	NM	170	134	5	6	0	0	5	6	278	204
Pennsylvania	185	150	23.3%	30	28	155	122	0	0	24	23	65	56	NM	NM	63	54	29	28	NM	3	26	25	66	43
East North Central	350	244	43.2%	224	151	126	93	66	26	156	122	78	67	NM	NM	77	66	8	4	0	NM	7	2	42	25
Illinois	39	35	9.8%	20	21	19	14	1	NM	19	20	11	10	0	0	11	10	0	0	0	0	0	0	8	4
Indiana	145	101	43.2%	135	96	10	5	49	16	87	80	4	2	0	0	4	2	0	0	0	0	0	0	5	3
Michigan	40	23	74.5%	13	NM	26	18	13	NM	0	0	16	12	0	0	16	12	1	0	0	0	1	0	10	5
Ohio	99	72	38.6%	48	29	51	43	NM	4	43	22	40	35	NM	NM	38	34	3	4	0	NM	2	2	11	8
Wisconsin	27	14	101.4%	NM	NM	20	13	0	0	NM	NM	8	7	0	0	8	7	4	0	0	0	4	0	8	5
West North Central	383	124	208.3%	246	18	137	107	NM	0	241	17	76	62	1	NM	75	61	3	2	0	0	3	2	59	45
Iowa	32	21	51.2%	NM	0	30	21	NM	0	0	0	20	14	0	0	20	14	1	0	0	0	1	0	9	7
Kansas	6	5	26.6%	1	NM	5	4	0	0	1	NM	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Minnesota	238	18	NM	218	NM	20	14	NM	0	216	NM	9	7	0	0	9	7	1	1	0	0	1	1	10	6
Missouri	99	79	25.5%	20	12	79	66	0	0	19	11	43	38	1	NM	43	37	1	0	0	0	1	0	36	29
Nebraska	7	1	596.0%	5	0	2	1	0	0	5	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	12.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	0	271.9%	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	4,277	2,438	75.5%	3,490	1,868	788	570	601	175	2,838	1,640	388	402	51	53	337	350	86	19	0	0	86	19	365	202
Delaware	76	66	14.8%	21	20	55	46	NM	NM	18	17	32	30	NM	NM	32	30	2	2	0	0	2	2	21	14
District of Columbia	30	20	50.6%	0	0	30	20	0	0	0	0	21	14	0	0	21	14	0	0	0	0	0	0	9	6
Florida	418	166	152.4%	298	64	121	102	268	37	28	27	46	55	NM	NM	44	54	3	2	0	0	3	2	73	45
Georgia	940	324	190.0%	852	253	88	71	112	29	739	223	23	70	NM	NM	22	69	61	0	0	0	61	0	6	2
Maryland	441	334	31.8%	106	95	335	240	NM	3	100	88	139	126	NM	NM	137	123	15	13	0	0	15	13	183	104
North Carolina	2,156	1,498	43.9%	2,076	1,433	80	65	164	102	1,866	1,283	103	97	45	48	57	50	1	1	0	0	1	1	21	14
South Carolina	62	9	610.3%	15	NM	47	7	0	0	15	NM	10	2	0	0	10	2	2	0	0	0	2	0	34	5
Virginia	151	19	707.1%	122	NM	28	17	51	NM	71	0	13	7	0	0	13	7	0	0	0	0	0	0	16	10
West Virginia	3	2	28.1%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
East South Central	185	67	176.1%	133	31	52	37	12	0	120	29	40	36	NM	NM	38	35	0	0	0	0	0	0	14	2
Alabama	73	2	NM	71	0	2	2	NM	0	66	0	2	1	0	0	2	1	0	0	0	0	0	0	1	0
Kentucky	15	7	124.8%	7	0	8	7	7	0	0	0	6	5	0	0	6	5	0	0	0	0	0	0	3	2
Mississippi	17	2	731.3%	NM	0	13	2	0	0	NM	0	4	2	0	0	4	2	0	0	0	0	0	0	9	0
Tennessee	80	57	40.7%	52	31	28	26	0	0	50	29	28	27	NM	NM	27	26	0	0	0	0	0	0	1	0
West South Central	1,095	485	125.7%	752	273	342	212	NM	3	748	269	96	62	1	NM	95	61	1	0	0	0	1	0	246	151
Arkansas	15	15	4.6%	12	12	4	3	NM	NM	11	11	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Louisiana	88	78	12.7%	0	0	88	78	0	0	0	0	6	5	0	0	6	5	0	0	0	0	0	0	82	73
Oklahoma	11	4	142.4%	2	2	8	2	2	2	0	0	4	1	0	0	4	1	1	0	0	0	1	0	4	1
Texas	981	388	152.8%	738	258	242	130	NM	0	737	258	85	55	1	NM	84	54	0	0	0	0	0	0	158	76
Mountain	6,015	3,867	55.5%	4,734	2,732	1,281	1,135	350	321	4,341	2,365	404	443	43	45	361	398	74	84	0	NM	74	83	847	653
Arizona	2,337	1,937	20.7%	1,592	1,255	745	682	239	207	1,345	1,040	220	235	8	9	212	226	60	70	0	0	60	70	474	385
Colorado	562	355	58.4%	351	168	211	186	0	0	346	163	92	89	5	5	87	83	1	1	0	0	1	1	123	102
Idaho	169	3	NM	164	0	5	3	0	0	164	0	1	1	0	0	1	1	0	0	0	0	0	0	4	2
Montana	5	4	34.8%	0	0	5	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
Nevada	1,550	998	55.3%	1,409	855	141	143	17	14	1,363	809	45	69	30	31	15	38	10	10	0	NM	10	9	116	95
New Mexico	515	363	41.8%	445	295	70	68	94	100	350	194	21	33	0	0	21	33	0	0	0	0	0	0	49	36
Utah	875	205	326.1%	773	159	102	47	0	0	773	159	23	15	0	0	23	15	3	2	0	0	3	2	76	29
Wyoming	2	1	26.9%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Pacific Contiguous	12,240	9,351	30.9%	8,084	6,124	4,156	3,227	202	201	7,829	5,869	992	805	49	49	943	756	665	500	4	NM	662	496	2,551	1,976
California	12,050	9,260	30.1%	7,998	6,106	4,052	3,154	199	198	7,746	5,854	959	783	49	49	910	734	661	498	4	NM	657	494	2,485	1,927
Oregon	148	58	154.5%	85	18	63	41	NM	NM	83	15	27	17	0	0	27	17	5	2	0	0	5	2	31	22
Washington	42	33	28.1%	0	0	42	32	0	0	0	0	6	5	0	0	6	5	0	0	0	0	0	0	35	27
Pacific Noncontiguous	435	323	34.5%	54	32	381	292	18	19	36	13	138	99	0	0	138	99	1	1	0	0	1	1	242	192
Alaska	1	0	--	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	434	323	34.3%	54	32	380	292	18	19	36	13	137	99	0	0	137	99	1	1	0	0	1	1	242	192
U.S. Total	28,173	19,478	44.6%	18,639	11,978	9,533	7,500	1,324	794	17,090	10,960	3,493	3,077	214	212	3,278	2,865	957	713	11	12	946	701	5,309	3,934

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, May 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	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1	14	-96.0%	1	14	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	14	-96.0%	1	14	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	116	-11.1%	0	0	103	116	0	0	0	0
Arizona	87	88	-1.8%	0	0	87	88	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	17	28	-40.4%	0	0	17	28	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	298	258	15.6%	0	0	298	258	0	0	0	0
California	298	258	15.6%	0	0	298	258	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	402	388	3.6%	1	14	402	374	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 May 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	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	1	39	-98.2%	1	39	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	39	-98.2%	1	39	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	360	342	5.1%	0	0	360	342	0	0	0	0
Arizona	313	268	16.7%	0	0	313	268	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	47	74	-36.6%	0	0	47	74	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	874	865	1.1%	0	0	874	865	0	0	0	0
California	874	865	1.1%	0	0	874	865	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	1,235	1,246	-0.9%	1	39	1,234	1,207	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-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	678,005	498,170	176,311	148	3,376
Year 2015					
January	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
Year 2016					
January	62,048	45,567	16,149	14	319
February	50,567	37,652	12,604	15	296
March	39,857	31,044	8,495	14	304
April	38,989	28,663	10,062	11	254
May	45,036	33,834	10,933	9	260
June	63,326	46,363	16,644	10	310
July	74,241	54,196	19,706	11	328
August	73,868	53,927	19,600	12	330
Sept	62,428	44,869	17,280	12	267
October	54,634	39,517	14,858	13	246
November	48,126	35,274	12,624	13	215
December	64,883	47,265	17,356	15	249
Year 2017					
January	63,542	46,896	16,329	16	300
February	48,155	35,793	12,083	12	267
March	48,915	35,948	12,697	12	259
April	44,455	31,772	12,449	8	225
May	51,082	37,683	13,142	8	249
Year to Date					
2015	302,583	219,656	81,220	76	1,632
2016	236,497	176,759	58,243	63	1,433
2017	256,149	188,093	66,700	56	1,300
Rolling 12 Months Ending in May					
2016	673,508	496,610	172,949	150	3,799
2017	697,656	509,503	184,769	141	3,244

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-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	14,264	1,061	1,733	544	10,926
Year 2015					
January	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
Year 2016					
January	1,500	103	152	62	1,184
February	1,393	90	141	63	1,099
March	1,376	108	142	61	1,065
April	1,049	89	170	39	752
May	1,135	81	135	31	889
June	1,175	81	155	36	902
July	1,176	83	151	35	906
August	1,173	90	141	39	904
Sept	1,040	77	140	37	786
October	1,009	76	149	37	747
November	1,036	84	120	48	784
December	1,201	99	138	57	907
Year 2017					
January	1,285	111	140	46	987
February	1,075	97	122	38	818
March	1,184	102	155	43	884
April	1,048	87	132	29	799
May	1,064	82	131	28	823
Year to Date					
2015	7,279	439	850	306	5,684
2016	6,454	470	739	255	4,990
2017	5,654	480	680	184	4,311
Rolling 12 Months Ending in May					
2016	15,807	1,062	1,869	584	12,291
2017	13,465	1,071	1,674	473	10,247

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	692,269	499,231	178,044	692	14,302
Year 2015					
January	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
Year 2016					
January	63,549	45,669	16,301	76	1,503
February	51,960	37,742	12,745	78	1,395
March	41,233	31,151	8,636	75	1,370
April	40,039	28,752	10,232	49	1,006
May	46,171	33,915	11,068	40	1,149
June	64,502	46,444	16,799	46	1,212
July	75,416	54,279	19,857	46	1,234
August	75,041	54,017	19,740	50	1,234
Sept	63,469	44,946	17,420	49	1,053
October	55,643	39,594	15,007	50	993
November	49,162	35,358	12,744	61	998
December	66,084	47,364	17,494	71	1,155
Year 2017					
January	64,827	47,008	16,469	62	1,288
February	49,230	35,890	12,204	50	1,085
March	50,099	36,050	12,851	55	1,143
April	45,502	31,860	12,582	37	1,024
May	52,146	37,765	13,274	36	1,071
Year to Date					
2015	309,862	220,095	82,070	381	7,316
2016	242,951	177,230	58,981	318	6,422
2017	261,803	188,572	67,380	240	5,611
Rolling 12 Months Ending in May					
2016	689,315	497,672	174,818	734	16,091
2017	711,121	510,574	186,443	614	13,490

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-May 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	21,225	15,668	4,841	132	584
Year 2015					
January	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
Year 2016					
January	2,330	1,681	589	12	48
February	2,111	1,405	645	14	47
March	1,367	1,045	284	NM	31
April	1,319	1,016	262	10	31
May	1,565	1,173	325	11	56
June	1,577	1,242	281	9	44
July	2,205	1,677	461	11	57
August	2,195	1,630	498	15	52
Sept	1,532	1,112	370	10	41
October	1,566	1,140	352	11	64
November	1,560	1,198	305	11	46
December	1,899	1,350	470	13	67
Year 2017					
January	1,981	1,492	411	29	48
February	1,558	1,180	322	15	41
March	1,652	1,341	249	21	42
April	1,487	1,213	224	14	37
May	1,699	1,306	338	15	39
Year to Date					
2015	16,887	9,335	7,050	173	329
2016	8,691	6,320	2,104	53	213
2017	8,378	6,533	1,544	94	206
Rolling 12 Months Ending in May					
2016	20,730	15,547	4,528	NM	525
2017	20,912	15,881	4,281	173	577

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

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	126	1,374
Year 2015					
January	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
Year 2016					
January	244	4	84	16	140
February	223	7	68	16	132
March	183	0	89	NM	87
April	180	1	79	10	91
May	209	0	86	9	114
June	197	2	78	8	109
July	239	0	87	11	140
August	233	0	94	10	129
Sept	186	1	88	9	89
October	231	0	89	9	133
November	184	0	78	8	97
December	225	2	95	13	115
Year 2017					
January	251	4	100	30	117
February	175	4	70	24	77
March	162	1	47	25	89
April	198	0	82	12	104
May	215	0	83	19	113
Year to Date					
2015	1,652	56	524	219	853
2016	1,039	13	405	58	563
2017	1,001	10	382	110	499
Rolling 12 Months Ending in May					
2016	2,529	19	1,037	NM	1,353
2017	2,496	16	991	179	1,310

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

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	23,760	15,687	5,855	258	1,959
Year 2015					
January	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
Year 2016					
January	2,574	1,685	673	28	188
February	2,334	1,412	713	30	179
March	1,549	1,045	373	NM	118
April	1,499	1,017	341	20	121
May	1,773	1,173	410	20	170
June	1,774	1,245	359	17	153
July	2,444	1,677	548	22	197
August	2,428	1,630	592	25	181
Sept	1,718	1,112	458	18	130
October	1,797	1,140	441	20	196
November	1,744	1,198	384	19	143
December	2,125	1,352	565	26	182
Year 2017					
January	2,233	1,496	512	59	165
February	1,733	1,185	392	39	117
March	1,814	1,341	296	46	131
April	1,686	1,214	306	26	140
May	1,914	1,307	421	35	151
Year to Date					
2015	18,538	9,391	7,574	392	1,182
2016	9,730	6,333	2,510	111	777
2017	9,379	6,543	1,926	205	705
Rolling 12 Months Ending in May					
2016	23,259	15,567	5,565	NM	1,878
2017	23,409	15,897	5,272	352	1,887

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

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243
Year 2015					
January	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
Year 2016					
January	341	302	17	0	22
February	329	272	39	0	17
March	366	283	63	0	20
April	390	326	43	0	21
May	371	296	52	0	23
June	382	308	52	0	22
July	403	325	56	0	22
August	422	337	62	0	23
Sept	383	311	50	0	22
October	246	172	62	0	13
November	304	240	47	0	18
December	337	261	56	0	21
Year 2017					
January	362	301	44	0	16
February	266	217	36	0	13
March	276	215	43	0	19
April	154	110	32	0	12
May	321	264	41	0	15
Year to Date					
2015	1,729	1,312	291	1	125
2016	1,797	1,478	215	1	103
2017	1,380	1,108	196	1	75
Rolling 12 Months Ending in May					
2016	4,112	3,286	593	2	231
2017	3,858	3,061	581	1	215

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,016	2	105	9	900
Year 2015					
January	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
Year 2016					
January	79	0	10	2	66
February	87	0	9	2	76
March	108	0	10	2	96
April	71	0	6	0	64
May	74	0	6	0	67
June	79	0	8	0	71
July	85	0	8	1	76
August	84	0	9	0	75
Sept	65	0	9	0	56
October	112	0	10	0	102
November	77	0	9	0	68
December	95	0	10	2	84
Year 2017					
January	74	0	9	2	63
February	66	0	9	1	56
March	87	0	10	2	75
April	74	0	9	1	65
May	82	0	10	1	72
Year to Date					
2015	511	3	46	8	454
2016	419	1	42	6	370
2017	384	1	46	6	330
Rolling 12 Months Ending in May					
2016	1,052	7	105	14	926
2017	981	2	109	9	861

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144
Year 2015					
January	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
Year 2016					
January	420	302	27	3	89
February	416	272	49	2	93
March	474	283	74	2	116
April	461	326	50	0	85
May	445	296	58	0	90
June	461	308	60	0	93
July	488	325	65	1	98
August	506	337	71	0	98
Sept	448	311	59	0	78
October	359	172	72	0	115
November	381	240	56	0	85
December	433	261	65	2	104
Year 2017					
January	436	301	53	2	79
February	332	218	45	1	69
March	363	215	52	2	94
April	229	110	42	1	76
May	403	265	51	1	87
Year to Date					
2015	2,240	1,315	337	9	579
2016	2,216	1,479	257	7	473
2017	1,764	1,109	242	7	405
Rolling 12 Months Ending in May					
2016	5,164	3,293	698	16	1,157
2017	4,839	3,063	690	11	1,075

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See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2007-May 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,189	5,045,514	4,642,081	68,639	643,955
Year 2015					
January	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
Year 2016					
January	803,496	390,470	353,701	5,845	53,480
February	716,939	352,730	309,115	5,032	50,062
March	775,091	379,524	337,795	5,413	52,359
April	753,775	364,603	333,632	5,304	50,236
May	839,337	409,691	371,145	5,604	52,897
June	1,006,981	501,185	445,296	6,087	54,412
July	1,179,364	576,840	538,874	6,656	56,994
August	1,191,376	573,095	554,337	6,741	57,203
Sept	951,076	454,440	436,438	5,961	54,237
October	775,622	368,496	350,464	5,153	51,510
November	700,757	332,274	308,648	5,332	54,504
December	706,376	342,166	302,636	5,512	56,061
Year 2017					
January	677,545	327,650	287,333	6,139	56,424
February	584,745	280,771	248,451	5,433	50,090
March	700,918	345,125	297,948	6,008	51,837
April	648,063	324,099	268,328	4,883	50,753
May	732,044	371,446	305,026	5,164	50,407
Year to Date					
2015	3,615,789	1,717,914	1,629,881	25,443	242,551
2016	3,888,638	1,897,019	1,705,388	27,197	259,034
2017	3,343,316	1,649,091	1,407,087	27,628	259,510
Rolling 12 Months Ending in May					
2016	10,289,425	4,924,360	4,652,191	71,846	641,028
2017	9,854,867	4,797,586	4,343,780	69,070	644,431

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	956,923	11,227	284,704	47,946	613,046
Year 2015					
January	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
Year 2016					
January	85,090	1,163	25,628	4,555	53,744
February	78,278	1,068	23,422	4,216	49,573
March	80,136	959	24,327	4,160	50,691
April	76,781	700	22,327	4,001	49,753
May	77,892	864	24,001	3,652	49,374
June	77,871	909	23,951	3,613	49,398
July	81,911	983	25,464	4,134	51,329
August	83,318	956	26,205	4,159	51,998
Sept	77,778	867	23,163	3,748	50,000
October	76,549	702	21,699	3,603	50,546
November	77,442	860	21,756	3,798	51,027
December	83,877	1,194	22,761	4,307	55,614
Year 2017					
January	86,570	1,164	22,966	5,166	57,274
February	77,792	872	20,183	4,382	52,356
March	84,133	841	23,209	4,285	55,797
April	77,370	758	20,709	3,634	52,269
May	77,118	685	19,971	3,678	52,784
Year to Date					
2015	378,359	2,935	116,430	18,863	240,131
2016	398,177	4,754	119,704	20,584	253,134
2017	402,983	4,320	107,038	21,145	270,479
Rolling 12 Months Ending in May					
2016	954,916	9,879	286,646	48,007	610,383
2017	961,730	10,793	272,038	48,508	630,391

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-May 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,113	5,056,741	4,926,785	116,586	1,257,001
Year 2015					
January	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
Year 2016					
January	888,586	391,633	379,329	10,400	107,224
February	795,217	353,798	332,537	9,248	99,635
March	855,227	380,483	362,122	9,572	103,049
April	830,556	365,304	355,959	9,304	99,989
May	917,229	410,556	395,146	9,256	102,271
June	1,084,852	502,095	469,247	9,700	103,810
July	1,261,274	577,823	564,338	10,790	108,323
August	1,274,694	574,051	580,542	10,901	109,201
Sept	1,028,854	455,308	459,601	9,708	104,238
October	852,172	369,198	372,162	8,756	102,055
November	778,199	333,134	330,404	9,130	105,531
December	790,252	343,360	325,397	9,820	111,675
Year 2017					
January	764,115	328,814	310,298	11,305	113,697
February	662,537	281,643	268,634	9,815	102,446
March	785,050	345,965	321,158	10,293	107,634
April	725,434	324,857	289,038	8,517	103,021
May	809,162	372,131	324,997	8,843	103,191
Year to Date					
2015	3,994,148	1,720,849	1,746,311	44,307	482,681
2016	4,286,815	1,901,773	1,825,093	47,781	512,168
2017	3,746,299	1,653,411	1,514,125	48,773	529,990
Rolling 12 Months Ending in May					
2016	11,244,341	4,934,239	4,938,837	119,854	1,251,411
2017	10,816,597	4,808,379	4,615,817	117,578	1,274,822

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241
Year 2015					
January	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
Year 2016					
January	28,779	2,572	23,258	2,481	467
February	26,323	2,469	21,261	2,183	410
March	26,918	2,473	21,197	2,724	524
April	27,153	2,585	22,247	1,867	454
May	27,948	2,606	22,797	2,071	473
June	26,392	2,389	21,901	1,729	372
July	27,016	2,395	22,290	1,916	415
August	28,815	2,711	23,770	1,924	410
Sept	26,511	2,506	21,856	1,769	382
October	28,975	2,862	23,249	2,417	447
November	26,381	2,417	21,441	2,091	433
December	28,306	2,521	23,165	2,166	455
Year 2017					
January	23,956	2,224	19,472	1,824	436
February	21,544	2,079	17,540	1,515	410
March	22,843	2,079	18,648	1,671	444
April	21,217	1,968	17,415	1,431	403
May	21,884	2,113	17,923	1,489	360
Year to Date					
2015	112,107	10,470	89,465	10,353	1,819
2016	137,121	12,705	110,761	11,327	2,328
2017	111,444	10,463	90,997	7,930	2,054
Rolling 12 Months Ending in May					
2016	307,543	27,492	248,677	26,224	5,150
2017	303,840	28,263	248,669	21,942	4,967

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-May 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,232	5	2,381	968	879
Year 2015					
January	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
Year 2016					
January	400	0	221	98	81
February	406	1	231	90	85
March	597	0	335	133	129
April	471	1	268	100	103
May	289	0	155	71	63
June	161	0	108	30	22
July	242	0	150	50	42
August	207	1	121	50	36
Sept	148	0	85	40	23
October	499	2	264	124	109
November	395	0	214	90	90
December	418	0	230	93	96
Year 2017					
January	243	0	159	46	38
February	206	0	134	40	32
March	224	1	139	49	35
April	237	0	104	97	36
May	173	0	97	46	29
Year to Date					
2015	591	1	227	219	144
2016	2,163	2	1,209	491	461
2017	1,083	1	633	278	170
Rolling 12 Months Ending in May					
2016	3,093	3	1,625	787	678
2017	3,153	4	1,805	755	589

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120
Year 2015					
January	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
Year 2016					
January	29,179	2,573	23,479	2,579	548
February	26,729	2,469	21,492	2,273	494
March	27,515	2,473	21,532	2,858	652
April	27,624	2,586	22,514	1,967	557
May	28,236	2,606	22,952	2,142	536
June	26,553	2,390	22,009	1,759	395
July	27,258	2,395	22,439	1,966	457
August	29,022	2,711	23,891	1,974	446
Sept	26,660	2,506	21,941	1,808	405
October	29,474	2,864	23,513	2,541	556
November	26,776	2,417	21,655	2,182	523
December	28,724	2,521	23,395	2,259	551
Year 2017					
January	24,199	2,224	19,631	1,870	474
February	21,750	2,079	17,674	1,555	442
March	23,066	2,080	18,787	1,720	480
April	21,454	1,968	17,519	1,528	439
May	22,057	2,113	18,020	1,535	389
Year to Date					
2015	112,698	10,471	89,692	10,571	1,964
2016	139,283	12,707	111,970	11,818	2,788
2017	112,527	10,464	91,631	8,209	2,224
Rolling 12 Months Ending in May					
2016	310,637	27,495	250,302	27,012	5,828
2017	306,994	28,267	250,474	22,697	5,556

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8
Year 2015					
January	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
Year 2016					
January	1,341	34	1,123	183	1
February	1,215	27	1,030	157	1
March	1,270	41	1,018	209	1
April	1,370	40	1,133	196	1
May	1,382	44	1,157	182	1
June	1,383	40	1,157	186	0
July	1,404	37	1,163	203	1
August	1,427	42	1,190	195	0
Sept	1,311	43	1,093	175	0
October	1,260	37	1,043	179	1
November	1,294	39	1,069	184	0
December	1,409	38	1,180	190	1
Year 2017					
January	1,437	35	1,207	195	0
February	1,244	19	1,045	180	0
March	1,324	36	1,097	192	0
April	1,289	35	1,058	196	0
May	1,408	36	1,158	213	1
Year to Date					
2015	6,552	169	5,435	946	3
2016	6,579	186	5,460	927	5
2017	6,702	160	5,564	976	1
Rolling 12 Months Ending in May					
2016	16,657	469	13,822	2,356	10
2017	16,190	438	13,459	2,288	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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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167
Year 2015					
January	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
Year 2016					
January	164	0	62	89	13
February	169	0	72	84	13
March	198	0	80	103	15
April	165	0	51	100	14
May	157	0	48	95	14
June	160	0	51	94	16
July	175	0	53	106	16
August	162	0	49	100	14
Sept	151	0	45	94	13
October	142	0	46	86	10
November	161	0	51	96	14
December	170	0	52	103	15
Year 2017					
January	197	0	55	122	20
February	167	0	49	105	12
March	188	0	63	105	19
April	168	0	55	96	18
May	172	0	51	103	18
Year to Date					
2015	825	0	276	465	85
2016	853	0	313	471	68
2017	892	0	272	532	87
Rolling 12 Months Ending in May					
2016	2,013	0	693	1,133	187
2017	2,013	0	617	1,210	186

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-May 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174
Year 2015					
January	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
Year 2016					
January	1,505	34	1,185	272	14
February	1,383	27	1,102	241	14
March	1,468	41	1,098	312	16
April	1,536	40	1,184	297	15
May	1,539	44	1,205	277	14
June	1,544	40	1,207	280	16
July	1,579	37	1,216	309	17
August	1,590	42	1,239	294	15
Sept	1,462	43	1,138	269	13
October	1,402	37	1,089	265	11
November	1,455	39	1,120	281	15
December	1,578	38	1,231	293	16
Year 2017					
January	1,634	35	1,262	317	20
February	1,410	19	1,094	286	12
March	1,512	36	1,160	297	19
April	1,457	35	1,112	292	18
May	1,580	36	1,209	317	19
Year to Date					
2015	7,378	169	5,710	1,411	87
2016	7,431	186	5,773	1,399	73
2017	7,594	160	5,837	1,508	89
Rolling 12 Months Ending in May					
2016	18,670	469	14,515	3,489	197
2017	18,203	438	14,077	3,498	190

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569
Year 2015					
January	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
Year 2016					
January	34,287	4,250	13,946	62	16,028
February	32,746	3,992	13,892	58	14,803
March	32,635	3,528	13,931	26	15,150
April	27,119	2,672	10,235	42	14,171
May	29,056	2,739	10,908	19	15,391
June	32,206	3,928	12,661	80	15,537
July	34,444	4,286	14,099	70	15,990
August	34,893	4,290	14,544	120	15,939
Sept	31,815	3,558	13,060	67	15,131
October	28,597	2,676	10,881	37	15,003
November	29,901	2,839	11,531	30	15,500
December	33,919	4,349	13,583	61	15,926
Year 2017					
January	32,399	3,603	12,806	78	15,912
February	30,715	3,162	12,417	66	15,069
March	32,946	4,066	13,687	31	15,161
April	30,033	2,964	12,319	42	14,708
May	31,074	3,236	13,092	58	14,687
Year to Date					
2015	166,582	16,990	71,133	247	78,212
2016	155,843	17,181	62,912	208	75,543
2017	157,166	17,033	64,321	276	75,536
Rolling 12 Months Ending in May					
2016	395,911	44,109	163,166	465	188,172
2017	382,941	42,959	154,680	740	184,562

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-May 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	924,785	8,469	17,016	4,321	894,978
Year 2015					
January	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
Year 2016					
January	82,391	864	1,751	471	79,306
February	75,353	893	1,750	412	72,298
March	75,758	871	1,365	274	73,249
April	73,341	710	1,395	344	70,893
May	76,050	659	1,339	271	73,780
June	77,024	563	1,356	375	74,730
July	78,025	689	1,273	363	75,700
August	77,846	709	1,280	423	75,434
Sept	73,401	411	1,426	363	71,201
October	73,927	349	1,084	328	72,167
November	78,622	789	1,415	321	76,098
December	83,046	962	1,583	377	80,124
Year 2017					
January	81,090	807	1,750	503	78,031
February	73,357	846	2,030	413	70,067
March	79,865	742	1,565	293	77,265
April	73,919	667	1,734	286	71,232
May	74,799	772	1,810	286	71,932
Year to Date					
2015	393,892	3,912	7,878	1,526	380,576
2016	382,893	3,998	7,600	1,771	369,525
2017	383,031	3,834	8,888	1,782	368,527
Rolling 12 Months Ending in May					
2016	932,963	9,436	18,922	3,960	900,645
2017	924,922	8,305	18,304	4,332	893,981

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, May 2017 and May 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	36	14	149.0%	2	0	32	14	0	0	NM	NM
Connecticut	3	0	--	0	0	3	0	0	0	0	0
Maine	NM	1	NM	0	0	1	1	0	0	NM	0
Massachusetts	29	13	120.0%	0	0	29	13	0	0	0	NM
New Hampshire	2	0	--	2	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,861	1,931	-3.7%	0	0	1,848	1,913	0	0	13	19
New Jersey	34	43	-20.0%	0	0	34	43	0	0	0	0
New York	31	46	-32.0%	0	0	26	39	0	0	5	7
Pennsylvania	1,795	1,843	-2.6%	0	0	1,787	1,831	0	0	8	11
East North Central	10,485	9,568	9.6%	6,574	6,112	3,847	3,391	2	2	61	64
Illinois	2,404	2,215	8.6%	168	171	2,186	1,996	2	NM	49	46
Indiana	2,402	2,544	-5.6%	2,348	2,423	53	120	0	1	0	NM
Michigan	2,207	1,640	35.0%	2,183	1,613	21	22	0	0	NM	5
Ohio	2,184	1,876	16.0%	597	619	1,586	1,252	0	0	NM	5
Wisconsin	1,287	1,294	-0.5%	1,278	1,285	0	0	0	0	9	9
West North Central	9,020	7,562	19.0%	8,903	7,457	0	NM	2	4	115	101
Iowa	1,356	704	93.0%	1,288	647	0	0	2	3	67	54
Kansas	829	966	-14.0%	829	966	0	0	0	0	0	0
Minnesota	1,008	965	4.4%	993	945	0	0	0	NM	15	19
Missouri	3,377	2,563	32.0%	3,377	2,561	0	NM	0	0	0	NM
Nebraska	808	870	-7.1%	779	849	0	0	0	0	29	22
North Dakota	1,520	1,386	9.7%	1,516	1,382	0	0	0	0	NM	NM
South Dakota	122	108	13.0%	122	108	0	0	0	0	0	0
South Atlantic	7,754	7,101	9.2%	7,030	6,393	711	684	1	NM	12	23
Delaware	7	3	130.0%	0	0	7	3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,455	1,359	7.0%	1,452	1,325	0	31	0	0	3	NM
Georgia	1,601	1,583	1.1%	1,598	1,579	0	0	0	0	3	4
Maryland	320	242	32.0%	0	0	318	240	0	0	1	2
North Carolina	1,000	751	33.0%	994	742	3	NM	1	0	3	3
South Carolina	702	595	18.0%	702	591	0	0	0	0	0	4
Virginia	461	547	-16.0%	441	536	18	6	1	NM	2	4
West Virginia	2,209	2,021	9.3%	1,844	1,620	365	397	0	0	0	4
East South Central	5,392	4,934	9.3%	5,098	4,702	282	214	0	0	12	18
Alabama	1,311	1,216	7.8%	1,311	1,215	0	0	0	0	1	2
Kentucky	2,514	2,196	14.0%	2,514	2,196	0	0	0	0	0	0
Mississippi	367	261	41.0%	85	47	282	214	0	0	0	0
Tennessee	1,200	1,261	-4.8%	1,188	1,245	0	0	0	0	12	16
West South Central	10,205	8,109	26.0%	4,444	3,854	5,749	4,242	0	0	13	13
Arkansas	946	561	68.0%	894	451	51	109	0	0	1	1
Louisiana	865	588	47.0%	571	414	294	174	0	0	0	0
Oklahoma	630	524	20.0%	538	463	79	50	0	0	12	NM
Texas	7,765	6,435	21.0%	2,441	2,526	5,325	3,909	0	0	0	0
Mountain	6,232	5,718	9.0%	5,614	5,299	601	405	0	0	17	14
Arizona	1,196	1,222	-2.1%	1,196	1,222	0	0	0	0	0	0
Colorado	1,260	1,201	4.9%	1,259	1,200	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	510	329	55.0%	20	NM	491	316	0	0	0	NM
Nevada	41	42	-3.1%	1	0	40	42	0	0	0	0
New Mexico	622	728	-14.0%	622	728	0	0	0	0	0	0
Utah	928	693	34.0%	885	671	37	NM	0	0	6	2
Wyoming	1,673	1,503	11.0%	1,629	1,467	34	NM	0	0	10	10
Pacific Contiguous	4	7	-35.0%	0	0	0	0	0	0	4	7
California	4	6	-43.0%	0	0	0	0	0	0	4	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	0	86.0%	0	0	0	0	0	0	1	0
Pacific Noncontiguous	93	91	3.2%	NM	17	72	70	NM	3	0	NM
Alaska	29	31	-7.0%	NM	17	NM	NM	NM	3	0	0
Hawaii	64	59	8.6%	0	0	64	58	0	0	0	NM
U.S. Total	51,082	45,036	13.0%	37,683	33,834	13,142	10,933	8	9	249	260

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	674	560	20.0%	49	72	621	486	0	0	NM	3
Connecticut	57	38	48.0%	0	0	57	38	0	0	0	0
Maine	9	7	34.0%	0	0	6	5	0	0	NM	1
Massachusetts	559	443	26.0%	0	0	559	442	0	0	0	NM
New Hampshire	49	72	-31.0%	49	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	9,438	10,347	-8.8%	0	0	9,366	10,252	0	0	72	95
New Jersey	203	222	-8.4%	0	0	203	222	0	0	0	0
New York	189	276	-32.0%	0	0	161	247	0	0	28	30
Pennsylvania	9,046	9,849	-8.1%	0	0	9,002	9,784	0	0	44	65
East North Central	57,071	52,686	8.3%	34,573	32,367	22,155	19,962	10	14	333	343
Illinois	13,508	12,711	6.3%	913	736	12,327	11,739	8	6	260	230
Indiana	13,600	13,831	-1.7%	13,141	12,917	457	910	2	4	0	0
Michigan	10,224	9,013	13.0%	10,099	8,877	108	101	0	4	NM	31
Ohio	12,156	10,540	15.0%	2,887	3,302	9,263	7,212	0	0	5	26
Wisconsin	7,584	6,591	15.0%	7,533	6,534	0	0	0	0	51	56
West North Central	45,538	42,310	7.6%	44,941	41,727	0	5	19	22	578	556
Iowa	5,678	4,626	23.0%	5,396	4,322	0	0	11	14	271	290
Kansas	4,480	4,879	-8.2%	4,480	4,879	0	0	0	0	0	0
Minnesota	5,337	5,171	3.2%	5,204	5,061	0	0	4	3	129	108
Missouri	15,962	14,026	14.0%	15,957	14,010	0	5	5	6	0	5
Nebraska	4,820	4,824	-0.1%	4,667	4,698	0	0	0	0	153	126
North Dakota	8,724	8,203	6.3%	8,698	8,175	0	0	0	0	NM	28
South Dakota	537	581	-7.5%	537	581	0	0	0	0	0	0
South Atlantic	35,551	36,446	-2.5%	32,095	32,075	3,372	4,241	10	9	75	122
Delaware	40	102	-61.0%	0	0	40	102	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,908	5,572	24.0%	6,894	5,485	0	73	0	0	14	15
Georgia	6,319	6,510	-2.9%	6,302	6,490	0	0	0	0	17	19
Maryland	1,094	1,972	-45.0%	0	0	1,085	1,963	0	0	9	9
North Carolina	4,896	4,375	12.0%	4,853	4,331	23	24	5	6	15	14
South Carolina	3,109	3,358	-7.4%	3,106	3,335	0	0	0	0	3	23
Virginia	2,209	3,014	-27.0%	2,103	2,913	85	74	5	3	16	24
West Virginia	10,976	11,544	-4.9%	8,838	9,521	2,138	2,005	0	0	0	18
East South Central	24,928	24,849	0.3%	23,686	23,671	1,176	1,086	0	0	67	92
Alabama	6,351	5,863	8.3%	6,344	5,853	0	0	0	0	7	10
Kentucky	11,828	12,456	-5.0%	11,828	12,456	0	0	0	0	0	0
Mississippi	1,645	1,461	13.0%	469	375	1,176	1,086	0	0	0	0
Tennessee	5,104	5,069	0.7%	5,045	4,987	0	0	0	0	60	82
West South Central	46,847	36,175	30.0%	21,569	18,213	25,209	17,893	0	0	69	69
Arkansas	5,536	4,087	35.0%	5,141	3,191	390	889	0	0	5	6
Louisiana	3,312	2,898	14.0%	1,908	2,176	1,404	723	0	0	0	0
Oklahoma	3,726	3,539	5.3%	3,323	3,115	338	361	0	0	64	63
Texas	34,274	25,652	34.0%	11,197	9,731	23,077	15,921	0	0	0	0
Mountain	34,761	32,142	8.1%	30,753	28,333	3,935	3,695	0	0	73	114
Arizona	6,177	5,641	9.5%	6,177	5,641	0	0	0	0	0	0
Colorado	6,609	6,154	7.4%	6,606	6,147	0	6	0	0	3	1
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	3,447	3,306	4.3%	112	NM	3,334	3,231	0	0	2	NM
Nevada	377	317	19.0%	153	144	224	174	0	0	0	0
New Mexico	4,417	3,438	28.0%	4,417	3,438	0	0	0	0	0	0
Utah	4,429	4,238	4.5%	4,261	4,082	162	118	0	0	6	38
Wyoming	9,299	9,042	2.8%	9,027	8,810	216	166	0	0	57	66
Pacific Contiguous	909	474	92.0%	334	185	546	255	0	0	30	35
California	26	31	-15.0%	0	0	0	0	0	0	26	31
Oregon	334	185	81.0%	334	185	0	0	0	0	0	0
Washington	549	258	113.0%	0	0	546	255	0	0	3	3
Pacific Noncontiguous	430	507	-15.0%	93	116	320	369	17	18	0	4
Alaska	162	209	-23.0%	93	116	NM	74	17	18	0	0
Hawaii	269	299	-10.0%	0	0	269	295	0	0	0	4
U.S. Total	256,149	236,497	8.3%	188,093	176,759	66,700	58,243	56	63	1,300	1,433

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	85	40	114.0%	16	6	63	27	3	NM	2	NM
Connecticut	14	21	-36.0%	1	1	13	19	NM	NM	0	NM
Maine	6	5	23.0%	0	NM	5	4	0	NM	NM	1
Massachusetts	52	NM	NM	4	3	45	NM	NM	NM	1	NM
New Hampshire	10	NM	NM	9	1	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	0	2	NM	NM	0	NM	0	0
Vermont	2	NM	NM	2	NM	0	0	0	NM	0	0
Middle Atlantic	86	73	17.0%	19	14	58	52	NM	NM	4	4
New Jersey	NM	NM	NM	NM	NM	NM	NM	0	NM	0	NM
New York	39	26	51.0%	19	14	14	NM	NM	NM	2	2
Pennsylvania	39	45	-13.0%	0	NM	37	42	1	NM	2	NM
East North Central	91	117	-22.0%	56	70	33	44	1	NM	2	2
Illinois	10	16	-41.0%	NM	NM	9	16	0	NM	0	0
Indiana	23	20	14.0%	22	19	0	NM	0	NM	1	1
Michigan	19	36	-48.0%	18	36	0	0	0	0	0	NM
Ohio	32	40	-20.0%	7	11	24	29	0	NM	0	1
Wisconsin	7	4	80.0%	7	4	0	0	0	NM	NM	NM
West North Central	63	55	15.0%	61	54	1	NM	0	NM	0	NM
Iowa	18	17	1.5%	17	17	0	NM	0	NM	0	NM
Kansas	19	10	93.0%	19	10	0	0	0	0	0	0
Minnesota	5	4	39.0%	NM	3	1	NM	0	NM	0	NM
Missouri	9	18	-49.0%	9	18	0	NM	0	NM	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	7	5	48.0%	7	5	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	332	205	62.0%	279	138	41	62	6	NM	6	5
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	81	35	129.0%	79	33	NM	NM	0	0	NM	1
Georgia	24	14	76.0%	19	11	NM	NM	0	0	NM	2
Maryland	24	22	8.6%	0	2	23	20	0	NM	0	0
North Carolina	49	37	32.0%	46	35	NM	NM	0	NM	NM	NM
South Carolina	NM	18	NM	NM	17	0	NM	NM	NM	1	1
Virginia	113	48	132.0%	98	12	9	36	6	NM	NM	NM
West Virginia	20	28	-30.0%	20	28	0	0	0	0	0	0
East South Central	47	60	-21.0%	44	58	0	0	0	NM	NM	2
Alabama	NM	6	NM	4	4	0	0	0	0	NM	NM
Kentucky	18	28	-34.0%	18	28	0	0	0	0	0	0
Mississippi	3	1	117.0%	2	1	0	0	0	0	1	0
Tennessee	19	25	-22.0%	19	25	0	NM	0	NM	0	NM
West South Central	36	40	-9.1%	17	16	18	22	0	NM	1	1
Arkansas	15	10	40.0%	6	5	8	4	0	0	NM	1
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	NM	2	NM	NM	2	0	0	0	NM	0	NM
Texas	18	25	-29.0%	8	7	10	18	0	NM	0	NM
Mountain	45	46	-2.6%	41	39	4	7	0	NM	0	NM
Arizona	7	8	-6.2%	7	8	0	0	0	NM	0	0
Colorado	2	NM	NM	2	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	3	7	-61.0%	NM	NM	3	7	0	0	0	0
Nevada	2	0	906.0%	1	0	1	0	0	0	0	0
New Mexico	6	10	-39.0%	6	10	0	0	0	0	0	NM
Utah	9	6	57.0%	9	5	0	NM	0	0	0	NM
Wyoming	15	14	14.0%	15	14	0	0	0	0	0	NM
Pacific Contiguous	9	30	-70.0%	5	5	2	3	0	NM	2	22
California	7	28	-76.0%	5	5	1	3	0	NM	0	20
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	2	2	17.0%	NM	NM	NM	NM	0	NM	2	2
Pacific Noncontiguous	905	901	0.5%	768	773	117	107	1	NM	20	19
Alaska	102	100	2.4%	98	93	0	0	1	NM	4	6
Hawaii	803	801	0.3%	670	681	117	107	1	1	16	NM
U.S. Total	1,699	1,565	8.6%	1,306	1,173	338	325	15	11	39	56

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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 May 2017 and May 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	354	386	-8.2%	44	45	265	309	38	22	8	10
Connecticut	69	64	7.8%	4	4	62	52	NM	NM	1	NM
Maine	56	154	-64.0%	0	NM	48	145	3	NM	5	7
Massachusetts	181	129	41.0%	8	19	149	101	22	9	2	NM
New Hampshire	27	17	54.0%	22	13	NM	NM	5	3	0	NM
Rhode Island	NM	20	NM	5	8	NM	10	6	NM	0	0
Vermont	5	NM	NM	5	NM	0	0	0	NM	0	0
Middle Atlantic	536	912	-41.0%	133	282	351	583	24	15	28	31
New Jersey	60	93	-36.0%	NM	NM	59	89	0	NM	0	NM
New York	279	585	-52.0%	133	280	107	273	19	12	19	19
Pennsylvania	198	234	-15.0%	0	NM	185	221	5	NM	9	10
East North Central	355	467	-24.0%	222	292	122	162	2	3	9	10
Illinois	44	69	-37.0%	4	5	40	63	0	1	0	0
Indiana	86	99	-14.0%	80	92	0	NM	0	NM	5	7
Michigan	66	109	-39.0%	62	107	0	0	2	1	2	1
Ohio	132	160	-18.0%	49	61	82	97	0	NM	1	2
Wisconsin	27	28	-4.7%	26	25	0	2	0	NM	NM	NM
West North Central	261	200	31.0%	256	194	4	4	1	NM	1	1
Iowa	58	49	17.0%	57	48	1	1	0	NM	0	NM
Kansas	68	40	70.0%	68	40	0	0	0	0	0	0
Minnesota	22	17	28.0%	18	13	3	3	1	NM	1	1
Missouri	47	63	-26.0%	47	63	0	NM	0	NM	0	0
Nebraska	NM	5	NM	NM	5	0	0	0	0	0	0
North Dakota	41	22	81.0%	41	22	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,529	1,644	-7.0%	1,259	1,110	225	489	19	NM	27	40
Delaware	NM	71	NM	0	NM	NM	69	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	440	227	93.0%	433	214	NM	NM	0	0	NM	6
Georgia	97	127	-24.0%	68	78	NM	34	1	1	10	14
Maryland	83	199	-58.0%	2	8	80	188	0	NM	1	1
North Carolina	296	274	7.8%	270	215	NM	55	0	NM	4	4
South Carolina	122	121	0.7%	113	106	2	NM	NM	NM	7	14
Virginia	377	536	-30.0%	279	400	80	133	17	NM	NM	2
West Virginia	94	88	6.7%	94	87	0	0	0	0	0	0
East South Central	210	245	-14.0%	196	224	5	11	0	NM	9	10
Alabama	35	48	-27.0%	23	28	5	11	0	0	NM	9
Kentucky	88	93	-5.1%	88	93	0	0	0	0	0	0
Mississippi	12	15	-24.0%	11	15	0	0	0	0	1	0
Tennessee	75	89	-16.0%	75	89	0	NM	0	NM	1	1
West South Central	127	134	-4.8%	62	86	63	44	1	NM	2	4
Arkansas	40	31	29.0%	13	23	27	6	0	0	1	2
Louisiana	NM	16	NM	NM	13	0	3	0	0	0	0
Oklahoma	NM	12	NM	NM	11	0	0	0	NM	1	1
Texas	64	75	-15.0%	26	39	36	34	1	NM	1	NM
Mountain	193	196	-1.8%	172	178	21	18	0	NM	0	NM
Arizona	44	52	-15.0%	44	52	0	0	0	NM	0	0
Colorado	10	9	15.0%	10	9	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	16	16	3.0%	NM	NM	16	16	0	0	0	0
Nevada	4	6	-33.0%	1	5	3	2	0	0	0	0
New Mexico	39	52	-26.0%	39	52	0	0	0	0	0	NM
Utah	36	22	65.0%	34	21	1	NM	0	0	0	NM
Wyoming	43	39	11.0%	43	39	0	0	0	0	0	NM
Pacific Contiguous	63	62	1.4%	35	26	11	9	1	NM	16	26
California	40	53	-25.0%	26	24	5	8	1	NM	9	21
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	18	9	102.0%	NM	NM	7	1	0	NM	7	5
Pacific Noncontiguous	4,749	4,446	6.8%	4,154	3,883	478	475	9	7	107	81
Alaska	693	545	27.0%	659	511	0	0	5	3	30	30
Hawaii	4,055	3,901	4.0%	3,496	3,371	478	475	4	4	78	51
U.S. Total	8,378	8,691	-3.6%	6,533	6,320	1,544	2,104	94	53	206	213

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 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	0	NM	NM	0	0	0	0	0	0	0	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	77	75	2.3%	46	27	28	44	0	0	2	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	45	28	61.0%	43	24	0	0	0	0	2	4
Ohio	28	44	-36.0%	0	0	28	44	0	0	0	0
Wisconsin	3	3	18.0%	3	2	0	0	0	0	0	1
West North Central	1	NM	NM	0	0	0	0	0	0	1	NM
Iowa	1	NM	NM	0	0	0	0	0	0	1	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	17	78	-78.0%	15	75	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	15	75	-80.0%	15	75	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	25	40	-38.0%	25	40	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	25	40	-38.0%	25	40	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	184	162	14.0%	178	154	0	0	0	0	6	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	181	157	15.0%	178	154	0	0	0	0	3	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	5	-37.0%	0	0	0	0	0	0	3	5
Mountain	13	8	58.0%	0	0	13	8	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	8	58.0%	0	0	13	8	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	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	321	371	-14.0%	264	296	41	52	0	0	15	23

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	24	NM	0	0	0	0	0	0	NM	24
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	18	NM	0	0	0	0	0	0	NM	18
East North Central	325	442	-27.0%	187	268	129	152	0	0	9	23
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	187	117	60.0%	178	101	0	1	0	0	9	15
Ohio	129	151	-15.0%	0	0	129	150	0	0	0	1
Wisconsin	9	15	-39.0%	9	9	0	0	0	0	0	6
West North Central	7	12	-38.0%	0	0	0	0	1	1	7	11
Iowa	7	12	-38.0%	0	0	0	0	1	1	7	11
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	103	351	-71.0%	93	340	0	0	0	0	NM	11
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	93	340	-73.0%	93	340	0	0	0	0	0	0
Georgia	NM	11	NM	0	0	0	0	0	0	NM	11
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	123	174	-30.0%	123	174	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	123	174	-30.0%	123	174	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	735	730	0.8%	705	695	0	0	0	0	31	34
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	719	709	1.4%	705	695	0	0	0	0	14	14
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	16	21	-21.0%	0	0	0	0	0	0	16	21
Mountain	67	63	6.3%	0	0	67	63	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	67	63	6.3%	0	0	67	63	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	1,380	1,797	-23.0%	1,108	1,478	196	215	1	1	75	103

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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, May 2017 and May 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	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	28,463	36,932	-23.0%	NM	172	26,854	35,432	NM	704	712	624
Connecticut	7,159	10,853	-34.0%	30	8	6,590	10,236	NM	273	NM	336
Maine	1,323	2,122	-38.0%	0	0	NM	1,919	28	NM	NM	182
Massachusetts	14,524	15,872	-8.5%	NM	136	13,885	15,289	NM	349	150	97
New Hampshire	1,795	3,034	-41.0%	183	26	1,593	2,984	6	NM	13	NM
Rhode Island	3,660	5,050	-28.0%	0	0	3,614	5,004	47	NM	0	0
Vermont	2	NM	NM	2	2	0	0	0	NM	0	0
Middle Atlantic	75,271	98,422	-24.0%	6,704	9,143	67,085	87,719	NM	760	855	799
New Jersey	18,200	23,249	-22.0%	120	NM	17,783	22,851	NM	NM	NM	211
New York	29,267	39,468	-26.0%	6,582	9,072	22,044	29,701	NM	557	NM	138
Pennsylvania	27,803	35,705	-22.0%	2	NM	27,258	35,168	97	NM	NM	449
East North Central	52,111	66,611	-22.0%	20,019	32,061	29,313	32,238	808	806	1,971	1,505
Illinois	8,475	9,836	-14.0%	807	1,214	7,157	8,140	NM	253	NM	230
Indiana	7,692	13,848	-44.0%	6,294	11,718	NM	1,716	108	95	892	318
Michigan	15,156	21,976	-31.0%	3,998	7,791	10,284	13,108	255	297	619	780
Ohio	14,962	11,337	32.0%	3,892	2,673	10,844	8,540	166	NM	61	NM
Wisconsin	5,827	9,614	-39.0%	5,029	8,665	630	734	28	NM	NM	158
West North Central	11,690	16,357	-29.0%	9,801	12,991	1,249	2,636	220	NM	420	385
Iowa	1,946	2,680	-27.0%	1,595	2,455	NM	NM	53	NM	298	NM
Kansas	1,583	1,746	-9.3%	1,566	1,685	0	0	0	0	17	NM
Minnesota	3,634	6,374	-43.0%	2,986	4,920	NM	1,206	69	NM	60	NM
Missouri	3,063	3,968	-23.0%	2,192	2,361	NM	1,430	98	152	43	NM
Nebraska	NM	330	NM	NM	318	0	0	0	NM	0	11
North Dakota	248	654	-62.0%	NM	646	0	0	0	0	2	NM
South Dakota	NM	605	NM	NM	605	0	0	0	0	0	0
South Atlantic	206,424	205,865	0.3%	166,993	163,803	36,137	38,973	590	507	2,704	2,583
Delaware	5,003	5,094	-1.8%	13	NM	4,196	3,912	0	0	NM	1,141
District of Columbia	42	NM	NM	0	0	0	0	42	NM	0	0
Florida	108,593	107,509	1.0%	101,531	93,564	6,347	13,149	19	NM	696	775
Georgia	30,337	33,528	-9.5%	22,160	24,796	7,722	8,439	0	0	456	294
Maryland	3,832	4,187	-8.5%	0	0	3,273	3,711	518	434	40	42
North Carolina	21,552	22,020	-2.1%	17,912	19,350	3,593	2,586	6	0	41	84
South Carolina	12,456	10,021	24.0%	10,436	8,612	1,908	1,372	0	NM	112	35
Virginia	23,860	21,798	9.5%	14,728	17,351	8,779	4,234	5	NM	348	207
West Virginia	749	1,665	-55.0%	213	89	NM	1,570	0	0	217	6
East South Central	68,689	77,270	-11.0%	46,349	49,851	21,103	26,268	NM	NM	1,145	1,059
Alabama	31,115	33,724	-7.7%	12,218	10,066	18,340	23,036	0	0	557	623
Kentucky	4,479	5,102	-12.0%	4,062	4,171	261	821	0	0	NM	110
Mississippi	29,477	32,010	-7.9%	26,809	29,398	2,485	2,411	0	NM	183	197
Tennessee	3,617	6,433	-44.0%	3,261	6,216	17	0	NM	NM	249	129
West South Central	191,707	224,496	-15.0%	62,865	77,136	91,836	107,579	637	668	36,370	39,114
Arkansas	11,322	11,715	-3.4%	3,019	4,158	8,176	7,417	0	NM	128	137
Louisiana	39,214	47,308	-17.0%	21,210	26,111	2,464	4,187	NM	NM	15,457	16,871
Oklahoma	17,928	22,935	-22.0%	11,569	14,044	6,277	8,799	0	NM	82	84
Texas	123,243	142,538	-14.0%	27,067	32,823	74,919	87,175	554	519	20,703	22,021
Mountain	51,684	59,282	-13.0%	38,770	44,969	11,561	12,958	360	367	992	988
Arizona	19,080	20,368	-6.3%	12,903	13,242	6,050	7,017	127	NM	0	0
Colorado	6,869	7,522	-8.7%	5,614	6,052	1,231	1,447	0	0	24	NM
Idaho	1,397	1,415	-1.3%	825	785	NM	576	35	0	NM	NM
Montana	352	NM	NM	312	NM	NM	NM	0	0	0	0
Nevada	14,517	17,112	-15.0%	12,851	15,382	1,432	1,442	41	NM	193	223
New Mexico	6,138	6,307	-2.7%	3,897	3,925	2,140	2,268	NM	114	0	0
Utah	2,899	5,509	-47.0%	2,278	4,920	177	NM	56	NM	389	360
Wyoming	433	483	-10.0%	NM	NM	6	NM	0	0	335	329
Pacific Contiguous	45,103	52,271	-14.0%	18,631	17,810	19,887	27,343	1,390	1,351	5,194	5,766
California	38,705	44,032	-12.0%	14,539	13,353	17,702	23,701	1,326	1,305	5,138	5,674
Oregon	2,375	3,439	-31.0%	1,903	2,049	386	1,294	NM	NM	NM	56
Washington	4,022	4,800	-16.0%	2,189	2,408	1,799	2,349	8	NM	NM	36
Pacific Noncontiguous	903	1,831	-51.0%	859	1,755	0	0	1	1	43	NM
Alaska	903	1,831	-51.0%	859	1,755	0	0	1	1	43	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	732,044	839,337	-13.0%	371,446	409,691	305,026	371,145	5,164	5,604	50,407	52,897

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
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 May 2017 and May 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	147,760	150,856	-2.1%	1,088	718	139,743	143,093	NM	3,592	3,756	3,452
Connecticut	43,774	54,075	-19.0%	157	8	40,155	50,586	NM	1,552	2,095	1,929
Maine	6,525	9,320	-30.0%	0	0	5,604	8,243	127	NM	NM	959
Massachusetts	71,802	58,957	22.0%	NM	627	68,820	56,227	NM	1,591	808	512
New Hampshire	8,933	10,853	-18.0%	188	81	8,620	10,628	66	NM	59	NM
Rhode Island	16,715	17,648	-5.3%	0	0	16,545	17,408	170	240	0	0
Vermont	10	NM	NM	5	3	0	0	5	NM	0	0
Middle Atlantic	381,548	454,867	-16.0%	36,033	40,845	336,928	404,917	3,850	4,354	4,737	4,751
New Jersey	85,791	113,355	-24.0%	374	NM	83,391	111,184	NM	689	1,381	1,210
New York	147,071	166,999	-12.0%	35,647	40,557	107,916	122,320	NM	3,196	908	925
Pennsylvania	148,686	174,512	-15.0%	12	NM	145,621	171,412	605	469	2,449	2,616
East North Central	261,906	344,486	-24.0%	109,723	152,466	135,764	179,758	4,402	4,159	12,016	8,103
Illinois	35,191	49,420	-29.0%	1,966	4,110	29,893	42,719	NM	1,262	NM	1,327
Indiana	51,737	61,564	-16.0%	38,491	47,163	7,936	12,364	443	441	4,867	1,597
Michigan	73,045	96,413	-24.0%	20,873	31,441	46,859	59,154	1,387	1,615	3,926	4,202
Ohio	70,573	84,749	-17.0%	20,778	21,593	48,322	62,501	1,048	544	425	111
Wisconsin	31,359	52,340	-40.0%	27,615	48,159	2,754	3,019	158	297	832	865
West North Central	53,834	66,139	-19.0%	44,606	53,581	5,742	9,100	1,309	1,530	2,177	1,927
Iowa	8,584	9,115	-5.8%	7,114	7,832	NM	NM	228	282	1,241	1,001
Kansas	6,199	5,159	20.0%	6,046	4,913	0	0	0	0	153	246
Minnesota	19,761	28,516	-31.0%	16,303	22,871	NM	4,382	740	805	530	459
Missouri	12,288	16,143	-24.0%	8,153	10,868	3,553	4,718	338	440	245	117
Nebraska	2,327	1,175	98.0%	2,324	1,119	0	0	3	NM	0	NM
North Dakota	2,275	3,185	-29.0%	2,267	3,132	0	0	0	0	8	53
South Dakota	2,400	2,846	-16.0%	2,400	2,846	0	0	0	0	0	0
South Atlantic	890,807	927,019	-3.9%	731,968	753,272	142,248	159,430	3,065	2,890	13,526	11,427
Delaware	18,447	21,683	-15.0%	22	NM	13,902	16,856	0	0	NM	4,687
District of Columbia	289	NM	NM	0	0	0	0	289	NM	0	0
Florida	437,583	466,352	-6.2%	411,107	423,614	22,923	39,052	71	NM	3,482	3,585
Georgia	138,015	148,526	-7.1%	102,312	112,218	33,812	34,960	0	0	1,890	1,349
Maryland	18,911	17,028	11.0%	0	0	16,065	14,355	2,637	2,482	208	191
North Carolina	107,881	122,619	-12.0%	92,754	109,376	14,898	12,832	26	23	202	388
South Carolina	49,730	44,123	13.0%	42,634	34,326	6,489	9,578	1	NM	606	208
Virginia	117,452	102,150	15.0%	82,511	73,184	33,301	27,961	40	NM	1,600	977
West Virginia	2,499	4,294	-42.0%	627	415	858	3,836	0	0	1,014	44
East South Central	314,598	355,604	-12.0%	211,688	233,695	96,695	115,880	NM	520	5,696	5,509
Alabama	141,042	156,067	-9.6%	53,866	49,885	84,228	102,859	0	0	2,948	3,323
Kentucky	18,514	25,410	-27.0%	16,595	23,178	1,140	1,559	0	0	NM	673
Mississippi	126,074	142,166	-11.0%	113,881	129,713	11,275	11,463	15	NM	903	974
Tennessee	28,968	31,961	-9.4%	27,346	30,919	52	0	NM	503	1,066	539
West South Central	814,894	1,013,197	-20.0%	235,361	331,459	390,688	485,843	2,867	3,029	185,978	192,866
Arkansas	40,010	48,234	-17.0%	10,206	19,283	29,084	28,145	0	NM	720	796
Louisiana	175,903	219,149	-20.0%	84,208	111,120	12,832	22,822	NM	690	78,315	84,517
Oklahoma	70,970	98,754	-28.0%	46,408	68,965	24,011	29,343	0	NM	552	422
Texas	528,010	647,059	-18.0%	94,539	132,091	324,761	405,532	2,319	2,305	106,391	107,131
Mountain	214,894	268,617	-20.0%	167,700	209,952	40,183	52,383	1,869	1,526	5,143	4,756
Arizona	56,027	81,278	-31.0%	41,612	56,520	13,838	24,294	578	464	0	0
Colorado	33,048	36,790	-10.0%	26,996	30,624	5,940	6,066	0	0	112	NM
Idaho	9,041	9,251	-2.3%	5,166	4,741	3,266	4,125	188	0	421	386
Montana	1,821	2,790	-35.0%	1,552	2,529	249	NM	0	0	20	0
Nevada	68,589	79,463	-14.0%	61,475	72,295	6,074	5,939	250	251	790	978
New Mexico	27,488	31,189	-12.0%	16,943	19,477	10,055	11,229	NM	476	9	NM
Utah	16,791	25,558	-34.0%	13,575	23,145	754	NM	370	335	2,092	1,613
Wyoming	2,088	2,297	-9.1%	NM	622	8	NM	0	0	1,700	1,672
Pacific Contiguous	256,559	298,383	-14.0%	104,792	111,995	119,097	154,984	6,547	5,591	26,124	25,813
California	201,639	236,630	-15.0%	75,781	82,509	93,980	123,464	6,277	5,291	25,601	25,366
Oregon	26,190	33,376	-22.0%	12,785	13,380	12,967	19,560	NM	NM	NM	177
Washington	28,730	28,377	1.2%	16,226	16,107	12,149	11,961	40	39	NM	270
Pacific Noncontiguous	6,515	9,469	-31.0%	6,132	9,036	0	0	25	NM	357	429
Alaska	6,515	9,469	-31.0%	6,132	9,036	0	0	25	NM	357	429
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,343,316	3,888,638	-14.0%	1,649,091	1,897,019	1,407,087	1,705,388	27,628	27,197	259,510	259,034

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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, May 2017 and May 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	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	866	1,111	-22.0%	0	0	815	1,037	51	75	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	313	382	-18.0%	0	0	313	382	0	0	0	0
New Hampshire	104	186	-44.0%	0	0	NM	NM	51	75	0	0
Rhode Island	308	373	-17.0%	0	0	308	373	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,099	5,354	-23.0%	0	0	3,905	5,074	NM	105	130	174
New Jersey	589	889	-34.0%	0	0	566	853	NM	NM	0	0
New York	1,303	1,596	-18.0%	0	0	1,303	1,596	0	0	0	0
Pennsylvania	2,206	2,869	-23.0%	0	0	2,036	2,625	NM	69	130	174
East North Central	5,396	6,771	-20.0%	605	800	4,674	5,882	37	21	81	68
Illinois	1,052	1,435	-27.0%	36	NM	1,015	1,393	0	0	0	0
Indiana	685	876	-22.0%	553	738	103	NM	0	0	NM	NM
Michigan	1,777	2,051	-13.0%	0	0	1,777	2,051	0	0	0	0
Ohio	931	1,167	-20.0%	0	0	931	1,167	0	0	0	0
Wisconsin	951	1,242	-23.0%	NM	NM	848	1,160	37	21	52	NM
West North Central	864	1,185	-27.0%	297	335	567	849	0	0	0	0
Iowa	NM	290	NM	0	0	NM	290	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	307	375	-18.0%	NM	NM	240	292	0	0	0	0
Missouri	NM	208	NM	NM	NM	NM	NM	0	0	0	0
Nebraska	156	160	-2.7%	156	160	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	3,627	4,768	-24.0%	426	518	2,955	3,780	NM	241	149	230
Delaware	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	608	647	-6.1%	152	182	456	462	0	1	0	NM
Georgia	341	455	-25.0%	0	0	322	406	0	0	19	NM
Maryland	188	236	-20.0%	0	0	NM	NM	NM	71	0	0
North Carolina	772	1,166	-34.0%	0	0	748	1,026	NM	141	0	0
South Carolina	416	526	-21.0%	268	328	NM	NM	0	0	117	160
Virginia	1,174	1,565	-25.0%	6	NM	1,148	1,529	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	383	533	-28.0%	NM	210	263	323	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	NM	226	NM	NM	210	11	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	1,340	1,838	-27.0%	0	0	1,293	1,766	47	72	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	1,196	1,632	-27.0%	0	0	1,150	1,560	47	72	0	0
Mountain	449	544	-17.0%	NM	NM	387	460	40	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	NM	176	NM	0	0	NM	NM	26	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,792	5,718	-16.0%	644	715	3,063	3,626	1,084	1,377	0	0
California	3,974	4,656	-15.0%	253	223	2,668	3,103	1,053	1,331	0	0
Oregon	447	582	-23.0%	NM	NM	311	397	NM	NM	0	0
Washington	371	479	-23.0%	286	353	NM	NM	0	0	0	0
Pacific Noncontiguous	70	125	-44.0%	0	0	0	0	70	125	0	0
Alaska	70	125	-44.0%	0	0	0	0	70	125	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,884	27,948	-22.0%	2,113	2,606	17,923	22,797	1,489	2,071	360	473

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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 May 2017 and May 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	4,399	5,231	-16.0%	0	0	4,185	4,911	214	320	0	0
Connecticut	NM	217	NM	0	0	NM	217	0	0	0	0
Maine	NM	385	NM	0	0	NM	385	0	0	0	0
Massachusetts	1,556	1,842	-16.0%	0	0	1,556	1,842	0	0	0	0
New Hampshire	473	828	-43.0%	0	0	NM	508	214	320	0	0
Rhode Island	1,674	1,740	-3.8%	0	0	1,674	1,740	0	0	0	0
Vermont	NM	218	NM	0	0	NM	218	0	0	0	0
Middle Atlantic	21,860	25,887	-16.0%	0	0	20,764	24,621	310	577	786	690
New Jersey	3,511	4,311	-19.0%	0	0	3,381	4,106	NM	205	0	0
New York	6,393	7,693	-17.0%	0	0	6,393	7,693	0	0	0	0
Pennsylvania	11,956	13,883	-14.0%	0	0	10,991	12,821	180	372	786	690
East North Central	26,957	32,774	-18.0%	3,078	3,856	23,303	28,407	192	145	383	366
Illinois	5,522	6,918	-20.0%	191	203	5,331	6,715	0	0	0	0
Indiana	3,405	4,275	-20.0%	2,811	3,563	468	543	0	0	NM	170
Michigan	8,620	9,896	-13.0%	0	0	8,620	9,896	0	0	0	0
Ohio	4,572	5,642	-19.0%	0	0	4,572	5,642	0	0	0	0
Wisconsin	4,836	6,043	-20.0%	NM	NM	4,312	5,611	192	145	256	196
West North Central	4,250	5,702	-25.0%	1,463	1,595	2,787	4,108	0	0	0	0
Iowa	508	1,404	-64.0%	0	0	508	1,404	0	0	0	0
Kansas	618	734	-16.0%	0	0	618	734	0	0	0	0
Minnesota	1,527	1,800	-15.0%	NM	389	1,188	1,411	0	0	0	0
Missouri	849	983	-14.0%	NM	424	473	558	0	0	0	0
Nebraska	749	782	-4.2%	749	782	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,913	23,304	-19.0%	2,095	2,390	15,139	18,292	794	1,350	885	1,272
Delaware	636	790	-19.0%	0	0	573	678	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,969	3,115	-4.7%	721	783	2,248	2,313	0	NM	0	NM
Georgia	1,849	2,235	-17.0%	0	0	1,702	1,965	0	0	148	270
Maryland	986	1,167	-16.0%	0	0	670	785	316	382	0	0
North Carolina	4,258	5,753	-26.0%	0	0	3,892	4,947	NM	806	0	0
South Carolina	2,165	2,627	-18.0%	1,338	1,570	NM	181	0	0	673	876
Virginia	6,026	7,552	-20.0%	37	NM	5,878	7,358	NM	156	0	0
West Virginia	23	NM	NM	0	0	23	NM	0	0	0	0
East South Central	2,010	2,574	-22.0%	685	1,014	1,325	1,560	0	0	0	0
Alabama	NM	512	NM	0	0	NM	512	0	0	0	0
Kentucky	760	1,091	-30.0%	685	1,014	75	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	715	846	-16.0%	0	0	715	846	0	0	0	0
West South Central	6,684	8,944	-25.0%	0	0	6,454	8,535	231	408	0	0
Arkansas	710	846	-16.0%	0	0	710	846	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	5,922	7,945	-25.0%	0	0	5,692	7,536	231	408	0	0
Mountain	2,274	2,666	-15.0%	NM	NM	1,969	2,228	202	300	0	0
Arizona	NM	488	NM	0	0	NM	488	0	0	0	0
Colorado	460	547	-16.0%	0	0	460	547	0	0	0	0
Idaho	339	473	-28.0%	NM	NM	NM	224	71	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	281	NM	0	0	NM	281	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	828	876	-5.5%	0	0	698	687	130	189	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	23,821	29,326	-19.0%	3,038	3,712	15,071	18,099	5,713	7,515	0	0
California	19,811	24,161	-18.0%	1,094	1,332	13,181	15,569	5,536	7,260	0	0
Oregon	2,159	2,846	-24.0%	510	670	1,472	1,922	NM	254	0	0
Washington	1,851	2,319	-20.0%	1,433	1,711	417	608	0	0	0	0
Pacific Noncontiguous	275	712	-61.0%	0	0	0	0	275	712	0	0
Alaska	275	712	-61.0%	0	0	0	0	275	712	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	111,444	137,121	-19.0%	10,463	12,705	90,997	110,761	7,930	11,327	2,054	2,328

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	326	308	5.7%	0	0	308	293	18	15	0	0
Connecticut	118	105	13.0%	0	0	118	105	0	0	0	0
Maine	28	23	22.0%	0	0	10	NM	18	15	0	0
Massachusetts	169	172	-1.7%	0	0	169	172	0	0	0	0
New Hampshire	11	9	25.0%	0	0	11	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	474	434	9.3%	0	0	370	351	104	83	0	0
New Jersey	118	107	11.0%	0	0	87	81	32	26	0	0
New York	181	164	10.0%	0	0	132	130	49	34	0	0
Pennsylvania	174	162	7.3%	0	0	151	140	23	22	0	0
East North Central	23	21	9.4%	3	3	0	0	20	18	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	74.0%	0	0	0	0	1	1	0	0
Michigan	19	17	8.0%	0	0	0	0	19	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	2.2%	3	3	0	0	0	0	0	0
West North Central	55	57	-3.6%	32	40	21	15	2	2	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	57	-3.6%	32	40	21	15	2	2	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	426	466	-8.7%	0	0	391	433	35	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	316	310	1.8%	0	0	316	310	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	75	78	-3.8%	0	0	75	78	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	35	78	-55.0%	0	0	0	45	35	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	1	1	129.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	129.0%	0	0	0	0	0	0	1	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	67	64	5.2%	0	0	67	64	0	0	0	0
California	43	45	-5.9%	0	0	43	45	0	0	0	0
Oregon	10	NM	NM	0	0	10	NM	0	0	0	0
Washington	15	11	35.0%	0	0	15	11	0	0	0	0
Pacific Noncontiguous	35	31	13.0%	0	0	0	0	35	31	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	35	31	13.0%	0	0	0	0	35	31	0	0
U.S. Total	1,408	1,382	1.8%	36	44	1,158	1,157	213	182	1	1

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	1,513	1,487	1.7%	0	0	1,428	1,406	84	81	0	0
Connecticut	522	527	-0.8%	0	0	522	527	0	0	0	0
Maine	131	118	12.0%	0	0	47	37	84	81	0	0
Massachusetts	807	798	1.2%	0	0	807	798	0	0	0	0
New Hampshire	51	45	16.0%	0	0	51	45	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,188	2,066	5.9%	0	0	1,729	1,635	458	431	0	0
New Jersey	577	539	7.2%	0	0	431	398	146	140	0	0
New York	809	758	6.7%	0	0	602	575	207	183	0	0
Pennsylvania	801	769	4.1%	0	0	695	662	106	108	0	0
East North Central	101	103	-2.1%	15	15	0	0	86	87	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	5	3	37.0%	0	0	0	0	5	3	0	0
Michigan	81	84	-3.7%	0	0	0	0	81	84	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	15	15	-2.1%	15	15	0	0	0	0	0	0
West North Central	251	256	-2.0%	145	171	98	76	9	10	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	251	256	-2.0%	145	171	98	76	9	10	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,152	2,261	-4.8%	0	0	1,991	2,105	161	156	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	1,608	1,554	3.5%	0	0	1,608	1,554	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	317	326	-2.9%	0	0	317	326	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	227	381	-40.0%	0	0	66	225	161	155	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	5	-70.0%	0	0	0	0	0	0	1	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	5	-70.0%	0	0	0	0	0	0	1	5
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	1	-47.0%	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	-47.0%	0	0	0	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	318	238	34.0%	0	0	318	238	0	0	0	0
California	202	145	39.0%	0	0	202	145	0	0	0	0
Oregon	48	37	30.0%	0	0	48	37	0	0	0	0
Washington	68	55	23.0%	0	0	68	55	0	0	0	0
Pacific Noncontiguous	178	163	9.3%	0	0	0	0	178	163	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	178	163	9.3%	0	0	0	0	178	163	0	0
U.S. Total	6,702	6,579	1.9%	160	186	5,564	5,460	976	927	1	5

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	4,594	4,493	2.3%	607	759	3,450	3,253	2	NM	535	479
Connecticut	207	437	-53.0%	0	0	207	437	0	0	0	0
Maine	2,034	1,688	20.0%	0	0	1,498	1,209	1	0	535	479
Massachusetts	170	NM	NM	0	0	170	NM	0	0	0	0
New Hampshire	1,830	1,769	3.4%	423	415	1,407	1,354	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	353	472	-25.0%	184	344	168	NM	2	NM	0	0
Middle Atlantic	1,084	1,050	3.2%	0	0	638	572	0	0	446	478
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	721	650	11.0%	0	0	638	572	0	0	83	78
Pennsylvania	362	400	-9.3%	0	0	0	0	0	0	362	400
East North Central	2,114	2,400	-12.0%	366	543	887	885	0	0	861	972
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	1,454	-4.9%	0	0	830	829	0	0	553	625
Ohio	148	156	-4.8%	0	0	58	NM	0	0	91	100
Wisconsin	583	791	-26.0%	366	543	0	0	0	0	218	247
West North Central	895	851	5.1%	163	156	374	460	56	0	302	235
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	844	851	-0.8%	163	156	374	460	5	0	302	235
Missouri	50	0	--	0	0	0	0	50	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	10,075	8,710	16.0%	1,734	1,177	3,268	2,128	0	NM	5,073	5,388
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,805	1,085	66.0%	0	0	1,057	344	0	0	748	741
Georgia	2,439	2,460	-0.9%	0	0	649	623	0	0	1,789	1,837
Maryland	40	78	-49.0%	0	0	0	0	0	NM	40	60
North Carolina	1,224	1,361	-10.0%	0	0	793	752	0	0	430	610
South Carolina	2,286	2,201	3.8%	313	305	513	409	0	0	1,459	1,487
Virginia	2,283	1,525	50.0%	1,421	872	255	0	0	0	607	654
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,828	3,024	-6.5%	0	0	185	187	0	0	2,643	2,837
Alabama	1,724	1,919	-10.0%	0	0	185	187	0	0	1,539	1,732
Kentucky	127	86	48.0%	0	0	0	0	0	0	127	86
Mississippi	639	608	5.2%	0	0	0	0	0	0	639	608
Tennessee	337	411	-18.0%	0	0	0	0	0	0	337	411
West South Central	2,904	3,157	-8.0%	0	32	0	153	0	0	2,904	2,972
Arkansas	597	469	27.0%	0	0	0	0	0	0	597	469
Louisiana	1,724	1,810	-4.8%	0	0	0	0	0	0	1,724	1,810
Oklahoma	0	101	-100.0%	0	0	0	0	0	0	0	101
Texas	584	777	-25.0%	0	32	0	153	0	0	584	592
Mountain	791	884	-11.0%	0	0	444	365	0	0	347	519
Arizona	265	293	-9.8%	0	0	265	293	0	0	0	0
Colorado	109	NM	NM	0	0	109	NM	0	0	0	0
Idaho	381	541	-30.0%	0	0	71	67	0	0	309	473
Montana	37	NM	NM	0	0	0	0	0	0	37	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	5,788	4,487	29.0%	367	71	3,845	2,904	0	0	1,576	1,512
California	3,982	3,006	32.0%	0	0	3,631	2,731	0	0	351	276
Oregon	509	494	2.9%	0	0	215	NM	0	0	294	320
Washington	1,298	987	32.0%	367	71	0	0	0	0	931	916
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	31,074	29,056	6.9%	3,236	2,739	13,092	10,908	58	19	14,687	15,391

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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 May 2017 and May 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	23,058	25,891	-11.0%	3,329	3,717	16,868	19,562	46	NM	2,815	2,599
Connecticut	1,077	1,870	-42.0%	0	0	1,077	1,870	0	0	0	0
Maine	10,332	11,176	-7.6%	0	0	7,483	8,572	34	NM	2,815	2,599
Massachusetts	NM	799	NM	0	0	NM	799	0	0	0	0
New Hampshire	8,611	9,343	-7.8%	1,873	1,839	6,737	7,505	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,261	2,703	-16.0%	1,455	1,879	NM	817	12	NM	0	0
Middle Atlantic	5,504	5,074	8.5%	0	0	3,190	2,869	0	0	2,314	2,205
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	3,667	3,329	10.0%	0	0	3,190	2,865	0	0	478	464
Pennsylvania	1,836	1,744	5.3%	0	0	0	NM	0	0	1,836	1,741
East North Central	11,148	11,893	-6.3%	2,179	2,359	4,654	4,758	0	0	4,314	4,776
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	6,904	7,410	-6.8%	0	NM	4,373	4,487	0	0	2,531	2,922
Ohio	881	921	-4.3%	0	0	282	270	0	0	600	651
Wisconsin	3,362	3,562	-5.6%	2,179	2,359	0	0	0	0	1,183	1,203
West North Central	4,958	4,528	9.5%	833	833	2,568	2,611	186	110	1,371	975
Iowa	2	NM	NM	0	0	0	0	2	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,782	4,418	8.2%	833	833	2,568	2,611	10	0	1,371	975
Missouri	174	108	62.0%	0	0	0	0	174	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	50,027	46,865	6.7%	8,934	8,433	15,288	12,630	44	84	25,761	25,718
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	8,579	6,057	42.0%	0	0	4,810	2,402	0	0	3,770	3,655
Georgia	12,286	12,230	0.5%	0	0	2,740	2,997	0	0	9,546	9,233
Maryland	322	341	-5.5%	0	0	0	0	44	84	279	257
North Carolina	6,217	6,211	0.1%	0	0	3,938	3,584	0	0	2,280	2,627
South Carolina	11,098	10,902	1.8%	1,692	1,534	2,489	2,550	0	0	6,917	6,818
Virginia	11,524	11,124	3.6%	7,242	6,898	1,311	1,097	0	0	2,970	3,129
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	14,880	15,370	-3.2%	0	0	931	914	0	0	13,950	14,456
Alabama	8,977	9,306	-3.5%	0	0	931	914	0	0	8,046	8,392
Kentucky	659	736	-10.0%	0	0	0	0	0	0	659	736
Mississippi	3,347	3,394	-1.4%	0	0	0	0	0	0	3,347	3,394
Tennessee	1,898	1,935	-1.9%	0	0	0	0	0	0	1,898	1,935
West South Central	15,329	15,327	0.0%	0	81	615	465	0	0	14,714	14,781
Arkansas	3,190	3,075	3.7%	0	0	0	0	0	0	3,190	3,075
Louisiana	8,132	8,315	-2.2%	0	0	0	0	0	0	8,132	8,315
Oklahoma	438	488	-10.0%	0	0	0	0	0	0	438	488
Texas	3,569	3,450	3.5%	0	81	615	465	0	0	2,954	2,903
Mountain	3,909	3,920	-0.3%	0	0	2,000	1,643	0	0	1,909	2,277
Arizona	1,211	1,327	-8.8%	0	0	1,211	1,327	0	0	0	0
Colorado	549	NM	NM	0	0	549	NM	0	0	0	0
Idaho	1,919	2,354	-18.0%	0	0	240	301	0	0	1,679	2,053
Montana	230	224	2.8%	0	0	0	0	0	0	230	224
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	28,355	26,975	5.1%	1,758	1,758	18,208	17,460	0	0	8,389	7,757
California	18,997	17,730	7.1%	0	0	17,117	16,398	0	0	1,880	1,332
Oregon	2,727	2,659	2.6%	0	0	1,092	1,062	0	0	1,635	1,597
Washington	6,632	6,586	0.7%	1,758	1,758	0	0	0	0	4,873	4,828
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	157,166	155,843	0.8%	17,033	17,181	64,321	62,912	276	208	75,536	75,543

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 - May 2017

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2015, End of Month Stocks									
January	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
Year 2016, End of Month Stocks									
January	187,486	32,397	1,320	146,459	20,980	1,089	41,026	11,416	231
February	187,575	31,637	1,323	146,224	20,670	1,064	41,351	10,967	259
March	192,269	31,579	1,240	149,113	20,697	974	43,156	10,883	266
April	193,991	31,695	1,181	151,329	20,909	901	42,662	10,786	280
May	193,432	31,925	1,071	151,237	21,114	826	42,195	10,810	246
June	183,248	31,687	905	144,987	20,967	689	38,261	10,720	216
July	169,465	31,190	858	135,110	20,652	678	34,354	10,537	180
August	160,452	34,823	780	129,111	20,402	589	31,341	14,421	190
Sept	158,238	34,768	768	128,419	20,378	566	29,820	14,389	201
October	162,739	34,723	812	132,438	20,268	606	30,301	14,455	207
November	172,208	30,982	833	139,080	20,501	606	33,128	10,480	227
December	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2017, End of Month Stocks									
January	157,359	31,030	827	125,648	20,373	584	31,711	10,657	243
February	161,985	30,549	859	128,557	20,096	606	33,428	10,453	253
March	163,900	29,449	882	129,324	20,105	621	34,577	9,344	261
April	166,236	29,170	952	131,184	19,969	685	35,053	9,201	268
May	164,924	28,780	892	130,139	19,556	625	34,785	9,224	267

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, May 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	May 2017	May 2016	Percentage Change	May 2017	May 2016	Percentage Change	May 2017	May 2016	Percentage Change
New England	W	1,795	W	3,803	4,718	-19.4%	0	0	--
Connecticut	W	W	W	1,237	1,654	-25.2%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,536	1,929	-20.4%	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	--	33	52	-36.4%	0	0	--
Middle Atlantic	5,030	6,576	-23.5%	4,866	5,635	-13.6%	0	0	--
New Jersey	595	783	-24.1%	533	709	-24.9%	0	0	--
New York	W	W	W	3,301	3,562	-7.3%	0	0	--
Pennsylvania	W	W	W	1,033	1,365	-24.3%	0	0	--
East North Central	34,216	42,294	-19.1%	907	1,104	-17.9%	361	255	41.4%
Illinois	8,141	10,442	-22.0%	52	76	-31.0%	0	0	--
Indiana	9,660	11,752	-17.8%	166	107	55.5%	W	0	W
Michigan	4,277	5,525	-22.6%	307	324	-5.2%	W	W	W
Ohio	7,367	9,977	-26.2%	247	367	-32.8%	W	W	W
Wisconsin	4,772	4,599	3.8%	135	230	-41.5%	W	W	W
West North Central	30,372	32,593	-6.8%	658	1,022	-35.6%	0	0	--
Iowa	7,525	8,413	-10.6%	79	131	-40.2%	0	0	--
Kansas	4,790	4,964	-3.5%	109	132	-16.9%	0	0	--
Minnesota	3,956	4,337	-8.8%	83	140	-41.1%	0	0	--
Missouri	8,660	9,419	-8.1%	268	403	-33.7%	0	0	--
Nebraska	3,514	3,362	4.5%	57	114	-49.7%	0	0	--
North Dakota	W	W	W	27	44	-37.7%	0	0	--
South Dakota	W	W	W	35	57	-38.7%	0	0	--
South Atlantic	29,172	36,031	-19.0%	12,053	12,292	-1.9%	W	W	W
Delaware	W	W	W	270	456	-40.7%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,792	6,330	-24.3%	5,644	5,334	5.8%	63	111	-43.3%
Georgia	5,544	6,535	-15.2%	785	833	-5.8%	0	0	--
Maryland	2,125	1,853	14.7%	836	884	-5.5%	0	0	--
North Carolina	5,712	7,550	-24.3%	1,212	1,232	-1.6%	0	0	--
South Carolina	4,726	6,273	-24.7%	648	707	-8.3%	0	0	--
Virginia	1,361	1,432	-5.0%	2,529	2,730	-7.4%	0	0	--
West Virginia	W	W	W	129	116	10.9%	W	W	W
East South Central	16,424	18,219	-9.9%	1,920	1,917	0.2%	W	W	W
Alabama	3,231	4,620	-30.1%	329	340	-3.2%	0	0	--
Kentucky	8,837	8,855	-0.2%	238	239	-0.4%	W	W	W
Mississippi	1,169	1,387	-15.8%	563	577	-2.5%	0	0	--
Tennessee	3,187	3,357	-5.0%	790	760	3.9%	0	0	--
West South Central	25,541	32,198	-20.7%	1,730	1,882	-8.1%	W	W	W
Arkansas	2,804	5,613	-50.0%	W	W	W	0	0	--
Louisiana	2,962	3,601	-17.8%	380	438	-13.3%	W	W	W
Oklahoma	4,076	6,097	-33.2%	W	W	W	0	0	--
Texas	15,699	16,887	-7.0%	1,061	1,163	-8.8%	0	0	--
Mountain	21,523	21,746	-1.0%	376	396	-5.1%	W	W	W
Arizona	3,808	4,673	-18.5%	131	134	-2.3%	0	0	--
Colorado	4,317	5,463	-21.0%	119	120	-1.0%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	17	W	W	W	W
Nevada	W	W	W	W	W	W	0	0	--
New Mexico	W	W	W	34	43	-20.8%	0	0	--
Utah	5,696	4,742	20.1%	37	42	-12.9%	0	0	--
Wyoming	5,016	3,715	35.0%	32	25	28.7%	0	0	--
Pacific Contiguous	W	W	W	348	509	-31.7%	0	0	--
California	0	0	--	156	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	W	264	W	0	0	--
Pacific Noncontiguous	W	W	W	2,119	2,448	-13.5%	0	0	--
Alaska	W	W	W	38	239	-84.2%	0	0	--
Hawaii	W	W	W	2,081	2,209	-5.8%	0	0	--
U.S. Total	164,924	193,432	-14.7%	28,780	31,925	-9.9%	892	1,071	-16.7%

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, May 2017 and 2016

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**May 2017**	**May 2016**	**Percentage Change**	**May 2017**	**May 2016**	**May 2017**	**May 2016**
Coal (Thousand Tons)							
New England	W	1,795	W	W	W	W	W
Middle Atlantic	5,030	6,576	-23.5%	0	0	5,030	6,576
East North Central	34,216	42,294	-19.1%	W	25,277	W	17,018
West North Central	30,372	32,593	-6.8%	30,372	32,593	0	0
South Atlantic	29,172	36,031	-19.0%	W	32,904	W	3,127
East South Central	16,424	18,219	-9.9%	16,424	18,219	0	0
West South Central	25,541	32,198	-20.7%	15,085	19,979	10,456	12,219
Mountain	21,523	21,746	-1.0%	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	**164,924**	**193,432**	**-14.7%**	**130,139**	**151,237**	**34,785**	**42,195**
Petroleum Liquids (Thousand Barrels)							
New England	3,803	4,718	-19.4%	609	722	3,194	3,996
Middle Atlantic	4,866	5,635	-13.6%	1,992	2,200	2,874	3,435
East North Central	907	1,104	-17.9%	595	792	313	312
West North Central	658	1,022	-35.6%	636	998	22	24
South Atlantic	12,053	12,292	-1.9%	9,875	9,973	2,178	2,319
East South Central	1,920	1,917	0.2%	W	W	W	W
West South Central	1,730	1,882	-8.1%	1,330	1,406	400	476
Mountain	376	396	-5.1%	342	366	34	30
Pacific Contiguous	348	509	-31.7%	W	W	W	W
Pacific Noncontiguous	2,119	2,448	-13.5%	W	W	W	W
U.S. Total	**28,780**	**31,925**	**-9.9%**	**19,556**	**21,114**	**9,224**	**10,810**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	361	255	41.4%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	63	111	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	**892**	**1,071**	**-16.7%**	**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 - May 2017

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	68,537	91,037	4,371	163,946
Year 2015, End of Month Stocks				
January	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
Year 2016, End of Month Stocks				
January	77,097	105,748	4,640	187,486
February	76,703	106,336	4,536	187,575
March	80,108	107,364	4,797	192,269
April	81,927	106,996	5,068	193,991
May	82,822	105,444	5,166	193,432
June	78,959	99,244	5,046	183,248
July	72,162	92,580	4,723	169,465
August	68,469	87,596	4,386	160,452
Sept	67,066	87,009	4,163	158,238
October	68,439	90,327	3,974	162,739
November	71,824	96,101	4,283	172,208
December	68,537	91,037	4,371	163,946
Year 2017, End of Month Stocks				
January	66,155	86,869	4,335	157,359
February	68,479	89,083	4,424	161,985
March	68,990	90,259	4,651	163,900
April	69,608	91,622	5,005	166,236
May	69,755	89,965	5,204	164,924

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 - May 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,332,849	638,564	2.12	40.87	1.35	92.2	100,602	16,610	9.36	56.72	0.48	69.9
Year 2015												
January	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
Year 2016												
January	1,019,963	53,356	2.12	40.60	1.33	84.0	8,974	1,499	7.92	47.44	0.46	58.3
February	965,792	49,873	2.11	40.90	1.40	96.0	7,927	1,307	6.98	42.32	0.46	56.0
March	884,181	44,893	2.18	42.88	1.46	108.9	6,862	1,132	6.90	41.82	0.44	73.1
April	793,417	40,144	2.16	42.69	1.46	100.3	8,529	1,404	8.35	50.75	0.41	93.7
May	859,334	43,883	2.16	42.39	1.45	95.0	9,129	1,520	9.79	58.87	0.44	85.7
June	1,008,277	52,327	2.10	40.47	1.35	81.1	7,517	1,247	10.38	62.59	0.49	70.3
July	1,138,678	59,400	2.11	40.53	1.28	78.8	8,993	1,460	11.82	72.81	0.51	59.8
August	1,235,488	63,867	2.11	40.85	1.32	85.1	9,033	1,479	9.44	57.64	0.51	60.9
Sept	1,140,035	59,344	2.12	40.79	1.30	93.5	8,092	1,332	9.40	57.12	0.50	77.5
October	1,125,959	58,765	2.08	39.77	1.28	105.6	8,262	1,370	9.98	60.24	0.53	76.2
November	1,082,191	56,397	2.09	40.03	1.29	114.7	9,437	1,552	10.07	61.25	0.49	89.0
December	1,079,534	56,315	2.08	39.85	1.32	85.2	7,849	1,308	W	W	0.46	61.6
Year 2017												
January	1,081,835	56,573	2.09	40.05	1.26	87.3	9,304	1,546	11.91	71.72	0.46	69.3
February	997,021	52,062	2.07	39.58	1.30	105.8	6,122	1,015	11.61	70.06	0.49	58.6
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.3
April	893,611	46,168	2.11	40.85	1.34	101.5	6,223	1,033	11.59	69.85	0.48	61.3
May	948,234	49,206	2.13	41.01	1.33	94.4	6,481	1,081	W	W	0.48	56.5
Year to Date												
2015	6,243,899	322,671	2.26	43.78	1.30	104.1	68,533	11,314	12.72	77.13	0.51	61.0
2016	4,522,687	232,150	2.15	41.80	1.42	95.6	41,420	6,863	8.07	48.73	0.44	70.5
2017	4,887,699	254,183	2.10	40.31	1.31	97.1	40,120	6,693	11.65	69.83	0.50	71.4
Rolling 12 Months Ending in May												
2016	13,364,996	692,408	2.18	42.07	1.33	100.4	120,534	19,869	9.62	58.37	0.46	85.4
2017	12,697,861	660,597	2.10	40.33	1.31	92.9	99,301	16,441	W	W	0.50	70.2

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

- Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2007 - May 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,935	4,166	1.65	46.23	5.40	78.7	10,605,977	10,258,688	2.88	2.97	90.3	2.47
Year 2015												
January	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	81.2	821,744	793,971	3.01	3.12	89.4	2.52
February	11,272	408	1.30	35.80	5.53	98.1	734,227	709,538	2.70	2.79	89.2	2.37
March	10,312	363	1.41	40.14	5.33	76.5	796,031	770,399	2.23	2.31	90.1	2.22
April	10,307	369	1.35	37.75	5.56	80.0	773,827	749,028	2.42	2.50	90.2	2.31
May	8,554	307	1.32	36.76	5.35	69.0	856,800	830,090	2.40	2.47	90.5	2.31
June	6,894	240	1.41	40.48	4.67	52.1	1,019,040	987,371	2.67	2.76	91.0	2.40
July	10,031	355	1.47	41.45	5.14	72.8	1,186,484	1,148,584	2.97	3.07	91.1	2.56
August	11,032	398	1.75	48.48	5.42	78.7	1,204,258	1,162,373	2.96	3.06	91.2	2.53
Sept	10,740	381	2.04	57.51	5.17	85.0	967,740	934,760	3.08	3.19	90.9	2.56
October	8,843	317	1.98	55.43	5.69	88.3	793,786	768,090	3.13	3.24	90.1	2.51
November	9,364	333	2.26	63.60	5.69	87.4	721,768	698,431	3.02	3.12	89.8	2.47
December	9,944	355	2.07	57.94	5.43	82.0	730,273	706,054	3.96	4.10	89.4	W
Year 2017												
January	7,058	251	2.14	60.16	5.67	57.6	607,841	587,377	4.12	4.27	76.9	2.83
February	7,593	271	2.00	56.03	5.85	81.5	534,117	516,936	3.58	3.69	78.0	2.60
March	8,628	309	2.06	57.51	5.29	85.2	616,865	597,210	3.36	3.47	76.1	2.62
April	5,835	208	2.00	55.96	5.34	90.9	576,207	557,625	3.37	3.49	76.9	2.61
May	6,776	242	2.05	57.46	5.57	60.0	645,937	625,781	3.49	3.60	77.3	W
Year to Date												
2015	56,960	2,015	1.96	55.29	5.18	89.9	3,698,904	3,581,163	3.70	3.82	89.7	2.82
2016	50,085	1,787	1.35	37.85	5.49	80.7	3,982,628	3,853,025	2.55	2.64	89.9	2.35
2017	35,891	1,281	2.05	57.45	5.55	72.7	2,980,967	2,884,928	3.59	3.70	77.0	2.67
Rolling 12 Months Ending in May												
2016	131,792	4,669	1.60	45.27	5.37	90.4	10,457,226	10,114,443	2.80	2.90	90.0	2.47
2017	102,741	3,660	1.93	54.25	5.41	75.6	9,604,315	9,290,591	3.23	3.34	85.9	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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - May 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,200,962	472,909	2.16	42.09	1.22	94.7	73,050	11,943	9.16	56.02	0.45	76.1
Year 2015												
January	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
Year 2016												
January	746,616	38,805	2.17	41.79	1.18	85.0	6,186	1,021	7.88	47.73	0.44	60.6
February	717,946	36,885	2.16	42.04	1.23	97.7	5,810	954	6.92	42.15	0.41	67.6
March	681,849	34,396	2.20	43.57	1.34	110.4	5,220	851	6.69	41.06	0.40	81.4
April	606,778	30,610	2.19	43.51	1.31	106.5	6,895	1,125	8.35	51.19	0.37	110.7
May	651,230	33,180	2.17	42.66	1.26	97.8	6,738	1,114	9.12	55.15	0.40	94.9
June	771,022	39,635	2.15	41.85	1.24	85.3	5,508	908	10.51	63.79	0.44	72.9
July	843,774	43,673	2.18	42.06	1.15	80.5	7,114	1,142	11.54	71.92	0.52	68.1
August	919,918	47,289	2.17	42.27	1.19	87.5	6,733	1,089	9.15	56.56	0.51	66.8
Sept	846,033	43,523	2.18	42.41	1.18	96.8	5,507	895	9.03	55.59	0.49	80.4
October	837,987	43,418	2.13	41.05	1.17	109.7	5,174	845	9.75	59.67	0.52	74.1
November	801,020	41,349	2.13	41.33	1.21	116.9	6,602	1,075	9.79	60.10	0.48	89.7
December	776,790	40,148	2.13	41.24	1.21	84.8	5,562	924	10.73	64.58	0.44	68.4
Year 2017												
January	783,283	40,654	2.14	41.32	1.15	86.5	6,498	1,069	11.09	67.38	0.44	71.5
February	732,713	38,088	2.11	40.63	1.20	106.1	4,563	754	11.53	69.80	0.46	63.7
March	702,185	36,293	2.13	41.15	1.21	100.7	10,468	1,759	11.58	68.94	0.53	131.1
April	646,292	33,094	2.15	41.91	1.22	103.9	4,679	774	11.38	68.84	0.46	63.8
May	698,108	35,802	2.16	42.16	1.22	94.8	4,608	763	11.38	68.72	0.45	58.4
Year to Date												
2015	4,582,035	235,699	2.28	44.31	1.19	107.1	41,722	6,842	12.22	74.53	0.49	72.9
2016	3,404,419	173,876	2.18	42.67	1.26	98.1	30,850	5,065	7.87	47.96	0.40	80.0
2017	3,562,581	183,930	2.14	41.41	1.20	97.5	30,816	5,119	11.41	68.69	0.49	78.2
Rolling 12 Months Ending in May												
2016	9,911,015	509,884	2.22	43.08	1.19	102.5	79,169	12,970	9.50	58.01	0.43	83.3
2017	9,359,124	482,963	2.15	41.63	1.19	94.6	73,016	11,996	10.65	64.83	0.48	75.5

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

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - May 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.77	5.38	103.1	5,059,987	4,892,902	3.15	3.26	96.8	2.54
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,006	381,192	3.27	3.38	97.3	2.57
February	9,837	356	1.13	31.18	5.53	131.0	355,300	343,232	2.96	3.07	97.0	2.44
March	8,402	294	1.21	34.47	5.28	103.8	382,382	370,058	2.53	2.61	97.3	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,760	356,152	2.72	2.80	97.5	2.42
May	7,842	281	1.22	34.16	5.35	94.9	411,449	398,370	2.68	2.77	97.0	2.40
June	6,325	220	1.33	38.34	4.59	71.4	500,006	484,203	2.88	2.97	96.4	2.47
July	9,587	340	1.43	40.50	5.10	104.6	569,055	550,931	3.20	3.31	95.4	2.63
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	95.7	2.60
Sept	9,059	320	1.96	55.58	5.12	102.8	456,568	440,900	3.43	3.55	96.8	2.64
October	7,088	253	1.87	52.47	5.71	146.9	368,564	356,539	3.54	3.65	96.6	2.58
November	7,871	279	2.22	62.85	5.74	116.3	338,187	326,505	3.37	3.49	98.0	2.54
December	8,017	284	1.99	56.17	5.39	108.8	347,451	335,619	4.15	4.30	97.8	2.79
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,225	278,482	4.34	4.49	84.7	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	86.2	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,742	288,239	3.56	3.67	83.3	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,428	272,355	3.52	3.63	83.8	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,832	313,928	3.71	3.82	84.4	2.68
Year to Date												
2015	47,045	1,657	1.91	54.27	5.17	126.0	1,711,343	1,658,412	3.90	4.03	96.4	2.77
2016	42,453	1,509	1.17	32.86	5.48	102.0	1,910,896	1,849,004	2.83	2.92	97.2	2.43
2017	35,891	1,281	2.05	57.45	5.55	115.5	1,441,864	1,395,639	3.79	3.91	84.4	2.66
Rolling 12 Months Ending in May												
2016	111,336	3,921	1.48	42.05	5.35	119.1	4,917,301	4,755,633	3.12	3.22	96.4	2.54
2017	93,143	3,311	1.88	52.97	5.40	108.1	4,590,955	4,439,537	3.49	3.60	92.3	2.62

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6
Year 2015												
January	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
Year 2016												
January	258,912	13,908	1.95	36.22	1.73	85.3	2,646	456	7.85	45.72	0.42	67.7
February	235,185	12,416	1.93	36.54	1.93	97.4	1,842	308	6.92	41.44	0.47	43.3
March	187,520	9,832	2.05	39.03	1.91	113.8	1,471	254	7.48	43.40	0.47	68.0
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.1
May	195,458	10,130	2.10	40.44	2.08	91.5	2,306	392	11.84	69.78	0.48	95.5
June	223,442	12,073	1.88	34.83	1.74	71.9	1,819	308	10.07	59.42	0.47	85.8
July	281,765	15,130	1.90	35.31	1.68	76.2	1,819	309	12.97	76.45	0.45	56.4
August	301,966	15,952	1.90	35.92	1.73	80.8	2,242	380	10.26	60.55	0.48	64.2
Sept	283,296	15,336	1.92	35.53	1.66	88.0	2,465	418	10.16	59.95	0.49	91.2
October	275,084	14,756	1.89	35.17	1.63	98.3	2,860	487	10.39	61.10	0.49	110.6
November	270,983	14,587	1.92	35.71	1.54	114.5	2,625	441	10.76	64.02	0.47	115.1
December	291,318	15,642	1.92	35.67	1.61	89.4	2,183	367	W	W	0.50	64.9
Year 2017												
January	283,569	15,216	1.93	36.03	1.54	92.4	2,679	456	13.98	82.08	0.47	89.2
February	249,202	13,269	1.90	35.70	1.59	108.7	1,438	241	W	W	0.50	61.6
March	247,658	13,058	1.93	36.69	1.75	101.6	1,344	231	12.02	69.90	0.44	78.0
April	231,929	12,350	1.97	37.09	1.66	98.2	1,383	233	W	W	0.44	76.3
May	234,471	12,642	1.99	36.90	1.67	95.2	1,718	293	W	W	0.45	69.6
Year to Date												
2015	1,550,482	81,857	2.17	41.22	1.65	99.7	25,762	4,301	13.52	81.18	0.49	56.8
2016	1,051,239	55,265	2.00	37.97	1.91	93.7	9,722	1,659	8.61	50.51	0.47	66.1
2017	1,246,829	66,534	1.94	36.45	1.64	98.7	8,562	1,455	12.54	73.78	0.46	75.5
Rolling 12 Months Ending in May												
2016	3,232,265	172,390	2.03	38.07	1.74	98.6	39,208	6,547	W	W	0.46	117.6
2017	3,174,682	170,010	1.92	35.86	1.65	91.2	24,575	4,165	W	W	0.47	79.0

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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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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - May 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	W
Year 2015												
January	1,427	52	W	W	5.10	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	362,702	349,843	2.78	2.88	92.2	W
February	1,313	47	W	W	5.44	97.1	321,535	310,739	2.43	2.51	93.4	W
March	1,337	48	W	W	5.37	65.2	352,243	340,715	1.90	1.96	94.1	W
April	1,203	44	W	W	5.30	88.4	344,777	333,405	2.07	2.14	93.7	W
May	505	18	W	W	5.28	30.6	384,336	372,428	2.04	2.11	94.3	W
June	348	12	W	W	5.32	20.5	456,773	442,681	2.42	2.50	94.3	W
July	223	8	W	W	5.67	12.1	551,548	533,794	2.67	2.76	94.6	W
August	1,509	55	W	W	5.24	77.2	568,632	549,115	2.63	2.72	94.6	W
Sept	1,482	53	W	W	5.43	90.6	448,557	433,304	2.63	2.72	94.3	W
October	1,548	56	W	W	5.59	78.5	361,739	349,983	2.62	2.71	94.0	W
November	1,294	46	W	W	5.43	83.4	317,947	308,170	2.60	2.68	93.3	W
December	1,500	55	W	W	5.50	84.2	314,419	304,102	3.83	3.96	93.5	W
Year 2017												
January	0	0	--	--	--	0.0	260,846	252,069	3.96	4.09	81.2	2.85
February	0	0	--	--	--	0.0	228,800	221,341	3.33	3.44	82.4	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	79.5	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.18	3.29	80.8	W
May	0	0	--	--	--	0.0	269,235	260,637	3.20	3.30	80.2	W
Year to Date												
2015	5,794	207	2.39	66.79	4.97	61.4	1,674,817	1,620,176	3.59	3.71	92.8	W
2016	5,661	206	2.50	68.69	5.44	80.2	1,765,593	1,707,130	2.24	2.32	93.5	W
2017	0	0	--	--	--	0.0	1,264,001	1,222,876	3.38	3.49	80.8	2.62
Rolling 12 Months Ending in May												
2016	14,418	523	W	W	5.44	74.8	4,774,066	4,617,148	2.45	2.54	93.5	W
2017	7,904	286	W	W	5.44	41.5	4,283,616	4,144,025	2.92	3.02	89.8	W

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

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - May 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.2	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.0	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.6	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.0	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.7	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.1	0	0	--	--	--	0.0
December	214	9	W	W	3.05	13.2	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.9	0	0	--	--	--	0.0
March	104	5	W	W	3.02	8.3	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.3	0	0	--	--	--	0.0
Year to Date												
2015	1,366	62	2.70	59.16	2.39	16.3	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	6.0	0	0	--	--	--	0.0
2017	319	14	W	W	3.00	5.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in May												
2016	1,508	66	W	W	2.80	8.9	0	0	--	--	--	0.0
2017	1,173	52	W	W	3.06	8.4	0	0	--	--	--	0.0

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

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - May 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.6	W
February	0	0	--	--	--	0.0	488	477	W	W	5.2	W
March	0	0	--	--	--	0.0	620	610	W	W	6.4	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.4	W
June	0	0	--	--	--	0.0	599	585	W	W	6.0	W
July	0	0	--	--	--	0.0	691	667	W	W	6.2	W
August	0	0	--	--	--	0.0	802	765	W	W	7.0	W
Sept	0	0	--	--	--	0.0	610	591	W	W	6.1	W
October	0	0	--	--	--	0.0	598	575	W	W	6.6	W
November	0	0	--	--	--	0.0	613	589	W	W	6.5	W
December	0	0	--	--	--	0.0	568	549	W	W	5.6	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.7	W
February	0	0	--	--	--	0.0	646	624	W	W	6.4	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.8	W
May	0	0	--	--	--	0.0	497	483	W	W	5.5	W
Year to Date												
2015	0	0	--	--	--	0.0	2,283	2,251	W	W	5.1	W
2016	0	0	--	--	--	0.0	3,526	3,445	W	W	7.2	W
2017	0	0	--	--	--	0.0	2,986	2,897	W	W	5.9	W
Rolling 12 Months Ending in May												
2016	0	0	--	--	--	0.0	7,742	7,564	W	W	6.3	W
2017	0	0	--	--	--	0.0	7,465	7,218	W	W	6.1	W

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - May 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3
Year 2015												
January	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
Year 2016												
January	14,296	638	W	W	1.51	42.4	142	23	10.87	67.07	1.55	12.2
February	12,538	566	W	W	1.62	40.6	274	45	8.45	51.85	1.10	25.0
March	14,648	658	W	W	1.42	48.0	170	28	8.30	51.02	1.13	23.4
April	12,466	554	W	W	1.59	55.1	177	29	W	W	1.35	24.2
May	12,645	573	2.76	60.98	1.52	49.9	84	14	11.02	66.30	1.65	8.3
June	13,814	619	2.78	62.01	1.38	51.1	190	31	9.59	58.65	1.48	20.3
July	13,139	597	2.77	61.02	1.36	48.4	60	10	10.18	62.12	1.02	5.0
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.4
Sept	10,554	477	W	W	1.37	45.3	120	20	11.04	66.33	1.01	15.4
October	12,729	585	W	W	1.43	58.9	228	37	10.22	62.63	1.14	19.0
November	9,951	451	W	W	1.46	45.2	210	35	10.40	61.84	1.26	24.6
December	11,213	516	W	W	1.49	44.6	103	17	10.53	63.57	0.88	9.4
Year 2017												
January	14,872	698	W	W	1.31	54.2	128	21	11.64	72.27	1.06	12.4
February	15,014	702	W	W	1.10	64.7	121	19	W	W	1.36	16.5
March	17,051	819	W	W	1.28	71.6	178	29	10.66	66.36	1.22	21.8
April	15,389	724	W	W	1.17	70.8	160	26	W	W	1.27	18.2
May	15,645	762	W	W	1.10	71.1	155	25	W	W	1.21	16.6
Year to Date												
2015	110,016	5,052	2.76	60.15	1.35	69.1	1,049	171	14.41	88.30	1.43	14.5
2016	66,594	2,989	W	W	1.53	46.5	848	139	9.20	56.21	1.27	17.9
2017	77,970	3,704	W	W	1.19	66.0	741	119	11.35	70.69	1.23	16.9
Rolling 12 Months Ending in May												
2016	220,209	10,068	W	W	1.40	62.6	2,157	352	W	W	1.36	18.8
2017	162,882	7,571	W	W	1.30	56.1	1,711	279	W	W	1.18	14.8

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

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

- 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - May 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.8	752,775	729,741	W	W	58.1	W
Year 2015												
January	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	W
Year 2016												
January	400	15	W	W	5.94	16.5	63,795	61,733	W	W	57.6	W
February	122	4	W	W	6.10	4.7	56,903	55,089	W	W	55.3	W
March	574	21	W	W	5.88	18.2	60,786	59,017	W	W	57.3	W
April	669	25	W	W	5.81	29.0	60,713	58,903	W	W	58.9	W
May	206	8	W	W	5.64	8.6	60,417	58,704	W	W	57.4	W
June	222	8	W	W	5.94	8.4	61,662	59,902	W	W	57.7	W
July	222	8	W	W	5.94	8.0	65,190	63,191	W	W	58.3	W
August	217	8	W	W	5.81	8.2	65,565	63,294	W	W	58.0	W
Sept	200	8	W	W	5.64	9.9	62,004	59,964	W	W	57.5	W
October	207	8	W	W	5.66	6.8	62,885	60,993	W	W	59.8	W
November	200	8	W	W	5.47	9.0	65,021	63,167	W	W	59.9	W
December	427	16	W	W	5.99	15.1	67,835	65,784	W	W	58.9	W
Year 2017												
January	0	0	--	--	--	0.0	58,108	56,186	W	W	49.4	W
February	0	0	--	--	--	0.0	54,035	52,337	W	W	51.1	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	49.3	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	49.7	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	49.2	W
Year to Date												
2015	4,121	151	W	W	5.64	26.0	310,462	300,324	W	W	62.2	W
2016	1,970	73	W	W	5.86	15.4	302,614	293,446	W	W	57.3	W
2017	0	0	--	--	--	0.0	272,117	263,517	W	W	49.7	W
Rolling 12 Months Ending in May												
2016	6,038	226	W	W	5.52	19.5	758,116	734,098	W	W	58.7	W
2017	1,693	63	W	W	5.81	5.8	722,278	699,811	W	W	54.9	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.

- 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, May 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	3	28	-89.0%	0	22	3	5	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	6	-50.0%	0	0	3	5	0	0	0	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	22	-100.0%	0	22	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	1,539	1,486	3.5%	0	0	1,515	1,446	0	0	24	41
New Jersey	50	50	-1.8%	0	0	50	50	0	0	0	0
New York	38	33	17.0%	0	0	14	0	0	0	24	33
Pennsylvania	1,451	1,404	3.4%	0	0	1,451	1,395	0	0	0	8
East North Central	10,890	10,334	5.4%	6,973	6,234	3,740	3,884	0	0	176	216
Illinois	2,808	2,693	4.3%	513	504	2,133	2,029	0	0	162	160
Indiana	2,430	2,099	16.0%	2,311	1,979	119	120	0	0	0	0
Michigan	2,244	1,990	13.0%	2,209	1,956	35	34	0	0	0	0
Ohio	1,948	2,280	-15.0%	495	561	1,453	1,701	0	0	0	18
Wisconsin	1,459	1,272	15.0%	1,445	1,234	0	0	0	0	14	38
West North Central	8,309	7,746	7.3%	7,980	7,647	0	0	0	0	328	98
Iowa	1,009	1,019	-0.9%	805	921	0	0	0	0	205	98
Kansas	586	1,081	-46.0%	586	1,081	0	0	0	0	0	0
Minnesota	752	699	7.6%	692	699	0	0	0	0	60	0
Missouri	2,984	2,465	21.0%	2,984	2,465	0	0	0	0	0	0
Nebraska	875	892	-1.9%	811	892	0	0	0	0	64	0
North Dakota	1,932	1,504	28.0%	1,932	1,504	0	0	0	0	0	0
South Dakota	170	85	100.0%	170	85	0	0	0	0	0	0
South Atlantic	7,687	7,763	-1.0%	6,845	6,592	767	1,106	0	0	75	65
Delaware	47	24	96.0%	0	0	47	24	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,489	1,204	24.0%	1,479	1,168	0	37	0	0	11	0
Georgia	1,407	1,518	-7.3%	1,401	1,500	0	0	0	0	7	18
Maryland	190	524	-64.0%	0	0	176	506	0	0	14	18
North Carolina	1,066	692	54.0%	1,026	692	12	0	0	0	29	0
South Carolina	532	666	-20.0%	532	666	0	0	0	0	0	0
Virginia	569	565	0.7%	509	547	45	0	0	0	15	18
West Virginia	2,386	2,569	-7.1%	1,899	2,019	487	540	0	0	0	10
East South Central	5,104	4,679	9.1%	4,752	4,362	282	214	0	0	70	104
Alabama	1,133	1,207	-6.1%	1,133	1,207	0	0	0	0	0	0
Kentucky	2,622	2,789	-6.0%	2,622	2,789	0	0	0	0	0	0
Mississippi	373	249	50.0%	91	36	282	214	0	0	0	0
Tennessee	976	434	125.0%	906	330	0	0	0	0	70	104
West South Central	9,265	6,012	54.0%	3,745	2,930	5,485	3,079	0	0	36	2
Arkansas	672	657	2.4%	634	539	33	115	0	0	5	2
Louisiana	816	594	37.0%	536	430	280	164	0	0	0	0
Oklahoma	414	487	-15.0%	290	412	93	75	0	0	31	0
Texas	7,363	4,274	72.0%	2,285	1,550	5,078	2,725	0	0	0	0
Mountain	6,079	5,717	6.3%	5,492	5,379	579	335	0	0	9	2
Arizona	1,084	1,128	-3.9%	1,084	1,128	0	0	0	0	0	0
Colorado	1,032	1,065	-3.1%	1,032	1,065	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	481	291	65.0%	20	0	461	291	0	0	0	0
Nevada	46	44	3.6%	0	0	46	44	0	0	0	0
New Mexico	716	724	-1.1%	716	724	0	0	0	0	0	0
Utah	1,052	949	11.0%	1,006	946	37	0	0	0	9	2
Wyoming	1,668	1,517	10.0%	1,634	1,517	34	0	0	0	0	0
Pacific Contiguous	255	45	465.0%	0	0	211	1	0	0	44	44
California	44	44	0.8%	0	0	0	0	0	0	44	44
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	211	1	NM	0	0	211	1	0	0	0	0
Pacific Noncontiguous	75	73	3.5%	15	13	60	59	0	0	0	0
Alaska	15	13	11.0%	15	13	0	0	0	0	0	0
Hawaii	60	59	1.6%	0	0	60	59	0	0	0	0
U.S. Total	49,206	43,883	12.0%	35,802	33,180	12,642	10,130	0	0	762	573

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) May 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	164	621	-74.0%	45	32	119	582	0	0	0	6
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	33	37	-12.0%	0	0	33	31	0	0	0	6
Massachusetts	87	466	-81.0%	0	0	87	466	0	0	0	0
New Hampshire	45	32	38.0%	45	32	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	8,354	7,368	13.0%	0	0	8,193	7,196	0	0	161	172
New Jersey	253	231	9.7%	0	0	253	231	0	0	0	0
New York	177	121	46.0%	0	0	70	0	0	0	106	121
Pennsylvania	7,925	7,016	13.0%	0	0	7,870	6,965	0	0	55	51
East North Central	54,607	51,597	5.8%	32,440	29,845	21,341	20,711	0	0	826	1,041
Illinois	16,744	14,784	13.0%	3,376	2,934	12,573	11,119	0	0	795	731
Indiana	11,453	11,818	-3.1%	10,830	10,991	623	827	0	0	0	0
Michigan	8,135	7,033	16.0%	8,058	6,953	72	70	0	0	5	10
Ohio	10,773	11,799	-8.7%	2,699	2,992	8,074	8,694	0	0	0	112
Wisconsin	7,503	6,163	22.0%	7,476	5,974	0	0	0	0	27	188
West North Central	44,966	43,252	4.0%	43,584	42,740	0	0	14	19	1,369	493
Iowa	5,378	6,482	-17.0%	4,501	5,989	0	0	0	0	877	493
Kansas	4,410	4,868	-9.4%	4,410	4,868	0	0	0	0	0	0
Minnesota	4,951	4,356	14.0%	4,759	4,356	0	0	0	0	192	0
Missouri	15,120	13,538	12.0%	15,106	13,519	0	0	14	19	0	0
Nebraska	5,237	4,874	7.4%	4,937	4,874	0	0	0	0	300	0
North Dakota	9,336	8,632	8.2%	9,336	8,632	0	0	0	0	0	0
South Dakota	535	501	6.7%	535	501	0	0	0	0	0	0
South Atlantic	37,085	37,238	-0.4%	32,313	32,530	4,311	4,293	0	0	461	415
Delaware	188	130	45.0%	0	0	188	130	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,321	5,396	17.0%	6,245	5,310	13	86	0	0	63	0
Georgia	7,054	6,371	11.0%	7,014	6,315	0	0	0	0	40	56
Maryland	1,733	1,854	-6.5%	0	0	1,646	1,751	0	0	87	103
North Carolina	5,603	3,905	43.0%	5,423	3,905	28	0	0	0	152	0
South Carolina	2,831	3,767	-25.0%	2,812	3,708	0	0	0	0	19	58
Virginia	2,595	3,291	-21.0%	2,338	2,998	158	159	0	0	100	134
West Virginia	10,760	12,524	-14.0%	8,482	10,294	2,278	2,168	0	0	0	63
East South Central	25,420	24,530	3.6%	23,827	22,884	1,176	1,086	0	0	417	560
Alabama	6,064	5,832	4.0%	6,064	5,832	0	0	0	0	0	0
Kentucky	14,565	14,658	-0.6%	14,565	14,658	0	0	0	0	0	0
Mississippi	1,516	1,311	16.0%	339	225	1,176	1,086	0	0	0	0
Tennessee	3,276	2,729	20.0%	2,859	2,169	0	0	0	0	417	560
West South Central	46,860	33,620	39.0%	20,019	16,515	26,642	17,080	0	0	198	25
Arkansas	4,444	4,660	-4.6%	4,215	3,861	197	773	0	0	32	25
Louisiana	3,647	2,525	44.0%	2,203	1,872	1,444	653	0	0	0	0
Oklahoma	3,094	3,645	-15.0%	2,525	3,250	402	395	0	0	167	0
Texas	35,675	22,790	57.0%	11,076	7,531	24,600	15,259	0	0	0	0
Mountain	35,166	32,153	9.4%	31,462	29,000	3,695	3,117	0	0	9	36
Arizona	6,396	5,367	19.0%	6,396	5,367	0	0	0	0	0	0
Colorado	6,429	6,044	6.4%	6,429	6,044	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,202	2,957	8.3%	112	0	3,090	2,957	0	0	0	0
Nevada	227	365	-38.0%	0	204	227	161	0	0	0	0
New Mexico	4,527	3,704	22.0%	4,527	3,704	0	0	0	0	0	0
Utah	4,953	4,918	0.7%	4,783	4,882	162	0	0	0	9	36
Wyoming	9,430	8,798	7.2%	9,215	8,798	216	0	0	0	0	0
Pacific Contiguous	1,245	1,314	-5.2%	165	235	817	839	0	0	263	241
California	263	241	9.4%	0	0	0	0	0	0	263	241
Oregon	165	235	-30.0%	165	235	0	0	0	0	0	0
Washington	817	839	-2.5%	0	0	817	839	0	0	0	0
Pacific Noncontiguous	315	457	-31.0%	75	95	240	361	0	0	0	0
Alaska	75	95	-21.0%	75	95	0	0	0	0	0	0
Hawaii	240	361	-34.0%	0	0	240	361	0	0	0	0
U.S. Total	254,183	232,150	9.5%	183,930	173,876	66,534	55,265	14	19	3,704	2,989

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.
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, May 2017 and 2016
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	3	126	-97.0%	1	66	2	60	0	0	0	0
Connecticut	1	20	-95.0%	0	0	1	20	0	0	0	0
Maine	1	2	-71.0%	0	0	1	2	0	0	0	0
Massachusetts	0	103	-100.0%	0	65	0	38	0	0	0	0
New Hampshire	1	1	85.0%	1	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	58	47	24.0%	10	0	37	47	0	0	11	1
New Jersey	1	1	75.0%	0	0	1	1	0	0	0	0
New York	18	1	NM	10	0	3	1	0	0	5	0
Pennsylvania	40	46	-13.0%	0	0	33	45	0	0	6	0
East North Central	80	90	-12.0%	33	45	44	42	0	0	3	4
Illinois	9	12	-27.0%	1	0	8	12	0	0	0	0
Indiana	18	14	30.0%	18	14	0	0	0	0	0	0
Michigan	10	22	-57.0%	9	22	0	0	0	0	1	0
Ohio	42	40	5.4%	4	7	36	30	0	0	2	3
Wisconsin	2	2	-28.0%	2	2	0	0	0	0	0	0
West North Central	37	41	-10.0%	37	41	0	0	0	0	0	0
Iowa	13	11	23.0%	13	11	0	0	0	0	0	0
Kansas	9	6	42.0%	9	6	0	0	0	0	0	0
Minnesota	3	1	188.0%	3	1	0	0	0	0	0	0
Missouri	7	14	-48.0%	7	14	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	9	-53.0%	4	9	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	144	388	-63.0%	120	327	13	51	0	0	11	9
Delaware	0	0	-100.0%	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	75	136	-44.0%	72	136	0	0	0	0	3	0
Georgia	16	9	76.0%	13	6	0	1	0	0	3	2
Maryland	11	33	-65.0%	0	0	11	33	0	0	0	0
North Carolina	21	26	-18.0%	18	26	0	0	0	0	3	0
South Carolina	7	17	-60.0%	7	10	0	0	0	0	0	7
Virginia	8	164	-95.0%	5	146	1	17	0	0	2	0
West Virginia	6	2	128.0%	6	2	0	0	0	0	0	0
East South Central	37	42	-13.0%	37	42	0	0	0	0	0	0
Alabama	4	4	0.4%	4	4	0	0	0	0	0	0
Kentucky	16	20	-22.0%	16	20	0	0	0	0	0	0
Mississippi	1	2	-37.0%	1	2	0	0	0	0	0	0
Tennessee	16	16	-2.9%	16	16	0	0	0	0	0	0
West South Central	33	23	43.0%	18	12	15	11	0	0	0	0
Arkansas	17	10	81.0%	8	5	9	5	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	0	--	1	0	0	0	0	0	0	0
Texas	15	14	10.0%	9	7	6	6	0	0	0	0
Mountain	38	37	1.5%	35	36	3	2	0	0	0	0
Arizona	10	19	-46.0%	10	19	0	0	0	0	0	0
Colorado	1	0	--	1	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	1	40.0%	0	0	2	1	0	0	0	0
Nevada	2	0	457.0%	1	0	1	0	0	0	0	0
New Mexico	6	8	-27.0%	6	8	0	0	0	0	0	0
Utah	5	3	56.0%	5	3	0	0	0	0	0	0
Wyoming	13	6	130.0%	13	6	0	0	0	0	0	0
Pacific Contiguous	1	0	--	0	0	1	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	1	0	--	0	0	1	0	0	0	0	0
Pacific Noncontiguous	650	725	-10.0%	472	545	178	179	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	650	725	-10.0%	472	545	178	179	0	0	0	0
U.S. Total	1,081	1,520	-29.0%	763	1,114	293	392	0	0	25	14

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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) May 2017 and 2016
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	191	158	21.0%	9	70	182	86	0	0	0	2
Connecticut	20	25	-22.0%	0	0	20	25	0	0	0	0
Maine	85	14	494.0%	0	0	85	12	0	0	0	2
Massachusetts	78	106	-26.0%	0	65	78	41	0	0	0	0
New Hampshire	9	5	86.0%	9	5	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	432	303	42.0%	171	15	220	280	0	0	41	8
New Jersey	2	4	-58.0%	0	0	2	4	0	0	0	0
New York	265	146	82.0%	171	15	79	125	0	0	15	6
Pennsylvania	165	153	7.7%	0	0	139	151	0	0	26	2
East North Central	305	415	-26.0%	170	222	123	180	0	0	12	12
Illinois	41	59	-30.0%	1	1	40	58	0	0	0	0
Indiana	74	85	-13.0%	74	85	0	0	0	0	0	0
Michigan	51	80	-36.0%	46	77	0	0	0	0	5	2
Ohio	127	175	-27.0%	37	42	83	122	0	0	7	10
Wisconsin	12	16	-26.0%	12	16	0	0	0	0	0	0
West North Central	179	143	25.0%	179	143	0	0	0	0	0	0
Iowa	45	33	34.0%	45	33	0	0	0	0	0	0
Kansas	42	16	156.0%	42	16	0	0	0	0	0	0
Minnesota	9	8	14.0%	9	8	0	0	0	0	0	0
Missouri	38	51	-25.0%	38	51	0	0	0	0	0	0
Nebraska	0	2	-100.0%	0	2	0	0	0	0	0	0
North Dakota	40	31	30.0%	40	31	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	1,599	1,742	-8.2%	1,423	1,310	115	320	0	0	61	113
Delaware	6	44	-86.0%	0	0	6	44	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,131	207	445.0%	1,117	207	0	0	0	0	14	0
Georgia	77	145	-47.0%	59	91	3	31	0	0	16	24
Maryland	51	104	-51.0%	0	0	51	104	0	0	0	0
North Carolina	143	165	-14.0%	128	104	1	61	0	0	14	0
South Carolina	50	152	-67.0%	40	74	0	0	0	0	10	78
Virginia	76	856	-91.0%	15	765	54	80	0	0	7	11
West Virginia	65	68	-4.3%	65	68	0	0	0	0	0	0
East South Central	168	206	-19.0%	160	192	4	10	0	0	4	4
Alabama	23	43	-48.0%	18	33	4	10	0	0	0	0
Kentucky	78	84	-6.9%	78	84	0	0	0	0	0	0
Mississippi	8	14	-45.0%	8	14	0	0	0	0	0	0
Tennessee	59	65	-8.8%	55	61	0	0	0	0	4	4
West South Central	106	130	-18.0%	42	105	64	25	0	0	0	0
Arkansas	44	35	27.0%	14	28	30	7	0	0	0	0
Louisiana	0	45	-100.0%	0	43	0	2	0	0	0	0
Oklahoma	3	1	258.0%	3	1	0	0	0	0	0	0
Texas	59	49	19.0%	25	33	34	16	0	0	0	0
Mountain	160	154	4.0%	147	146	13	8	0	0	0	0
Arizona	31	49	-37.0%	31	49	0	0	0	0	0	0
Colorado	1	8	-87.0%	1	8	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	7	20.0%	0	0	8	7	0	0	0	0
Nevada	4	7	-45.0%	1	5	3	2	0	0	0	0
New Mexico	33	45	-26.0%	33	45	0	0	0	0	0	0
Utah	41	13	221.0%	39	13	2	0	0	0	0	0
Wyoming	43	25	68.0%	43	25	0	0	0	0	0	0
Pacific Contiguous	14	2	651.0%	7	0	7	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	7	2	276.0%	0	0	7	2	0	0	0	0
Pacific Noncontiguous	3,538	3,609	-2.0%	2,812	2,862	726	747	0	0	0	0
Alaska	1	3	-79.0%	1	3	0	0	0	0	0	0
Hawaii	3,537	3,606	-1.9%	2,811	2,859	726	747	0	0	0	0
U.S. Total	6,693	6,863	-2.5%	5,119	5,065	1,455	1,659	0	0	119	139

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 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	49	61	-19.0%	49	43	0	18	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	47	40	19.0%	47	40	0	0	0	0	0	0
Ohio	0	18	-100.0%	0	0	0	18	0	0	0	0
Wisconsin	2	3	-45.0%	2	3	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	28	131	-79.0%	28	123	0	0	0	0	0	8
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	28	123	-77.0%	28	123	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	8	0	--	8	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	8	0	--	8	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	158	115	37.0%	158	115	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	158	115	37.0%	158	115	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	242	307	-21.0%	242	281	0	18	0	0	0	8

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 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	196	522	-62.0%	196	298	0	206	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	186	127	47.0%	186	127	0	0	0	0	0	0
Ohio	0	206	-100.0%	0	0	0	206	0	0	0	0
Wisconsin	10	28	-65.0%	10	10	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	200	622	-68.0%	200	568	0	0	0	0	0	54
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	200	568	-65.0%	200	568	0	0	0	0	0	0
Georgia	0	54	-100.0%	0	0	0	0	0	0	0	54
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	114	47	142.0%	114	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	114	47	142.0%	114	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	771	595	30.0%	771	595	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	771	595	30.0%	771	595	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	1,281	1,787	-28.0%	1,281	1,509	0	206	0	0	0	73

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	19,994	34,684	-42.0%	248	106	19,746	34,578	0	0	0	0
Connecticut	6,035	9,990	-40.0%	0	0	6,035	9,990	0	0	0	0
Maine	0	1,931	-100.0%	0	0	0	1,931	0	0	0	0
Massachusetts	10,814	14,766	-27.0%	65	81	10,749	14,685	0	0	0	0
New Hampshire	1,777	3,011	-41.0%	183	26	1,594	2,985	0	0	0	0
Rhode Island	1,368	4,986	-73.0%	0	0	1,368	4,986	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	61,011	92,723	-34.0%	5,211	7,822	55,461	84,692	0	0	339	210
New Jersey	12,450	22,664	-45.0%	0	0	12,450	22,664	0	0	0	0
New York	23,403	36,068	-35.0%	5,211	7,822	18,057	28,185	0	0	135	61
Pennsylvania	25,158	33,991	-26.0%	0	0	24,954	33,842	0	0	204	149
East North Central	41,800	64,270	-35.0%	13,799	30,971	26,573	32,027	369	422	1,059	849
Illinois	4,819	8,637	-44.0%	15	1,083	4,802	7,551	0	0	2	3
Indiana	5,395	12,850	-58.0%	5,219	11,404	176	1,445	0	0	0	0
Michigan	14,104	22,650	-38.0%	2,450	7,998	10,808	13,748	369	422	476	482
Ohio	13,622	11,053	23.0%	3,220	2,555	10,052	8,486	0	0	350	12
Wisconsin	3,859	9,080	-57.0%	2,894	7,931	734	797	0	0	230	352
West North Central	3,274	15,434	-79.0%	2,819	12,390	16	2,878	113	165	325	1
Iowa	1,484	3,373	-56.0%	1,172	3,372	0	0	0	0	312	1
Kansas	923	1,509	-39.0%	923	1,509	0	0	0	0	0	0
Minnesota	75	6,141	-99.0%	45	4,692	16	1,448	1	0	13	0
Missouri	452	3,698	-88.0%	339	2,103	0	1,430	113	165	0	0
Nebraska	159	159	0.1%	159	159	0	0	0	0	0	0
North Dakota	181	113	61.0%	181	113	0	0	0	0	0	0
South Dakota	0	441	-100.0%	0	441	0	0	0	0	0	0
South Atlantic	182,425	203,386	-10.0%	153,391	163,179	26,174	37,087	0	0	2,860	3,120
Delaware	3,708	4,874	-24.0%	0	0	3,708	3,615	0	0	0	1,259
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	99,123	104,783	-5.4%	97,100	92,946	1,904	11,836	0	0	120	0
Georgia	24,658	34,226	-28.0%	19,253	25,044	4,545	8,375	0	0	860	807
Maryland	2,712	3,812	-29.0%	0	0	2,529	3,612	0	0	183	201
North Carolina	19,418	21,848	-11.0%	16,615	19,262	2,770	2,586	0	0	33	0
South Carolina	10,754	9,788	9.9%	8,907	8,476	1,815	1,183	0	0	32	129
Virginia	20,992	22,394	-6.3%	11,317	17,360	8,726	4,337	0	0	949	697
West Virginia	1,060	1,662	-36.0%	198	91	177	1,543	0	0	684	28
East South Central	63,719	75,773	-16.0%	43,105	48,718	18,993	26,198	0	0	1,621	857
Alabama	26,353	30,687	-14.0%	10,117	7,729	16,237	22,958	0	0	0	0
Kentucky	4,044	5,089	-21.0%	3,783	4,268	261	821	0	0	0	0
Mississippi	28,766	32,702	-12.0%	26,271	30,283	2,495	2,418	0	0	0	0
Tennessee	4,556	7,295	-38.0%	2,934	6,438	0	0	0	0	1,621	857
West South Central	170,898	246,768	-31.0%	41,234	76,137	88,039	120,134	0	0	41,625	50,497
Arkansas	7,834	12,256	-36.0%	17	4,034	7,676	8,026	0	0	141	196
Louisiana	36,488	48,233	-24.0%	17,585	26,046	2,949	4,683	0	0	15,954	17,504
Oklahoma	15,726	23,200	-32.0%	9,275	14,248	6,271	8,952	0	0	180	0
Texas	110,850	163,079	-32.0%	14,357	31,809	71,143	98,473	0	0	25,350	32,797
Mountain	46,493	54,696	-15.0%	37,240	43,481	9,206	11,151	0	0	47	65
Arizona	18,899	20,117	-6.1%	12,866	13,118	6,033	6,998	0	0	0	0
Colorado	6,562	7,348	-11.0%	5,594	6,014	967	1,334	0	0	0	0
Idaho	0	1,081	-100.0%	0	537	0	544	0	0	0	0
Montana	227	0	--	227	0	0	0	0	0	0	0
Nevada	12,926	15,509	-17.0%	12,926	15,509	0	0	0	0	0	0
New Mexico	5,611	5,862	-4.3%	3,541	3,709	2,069	2,153	0	0	0	0
Utah	2,226	4,777	-53.0%	2,049	4,592	130	120	0	0	47	65
Wyoming	43	2	NM	36	2	6	0	0	0	0	0
Pacific Contiguous	36,044	41,206	-13.0%	16,758	14,417	16,428	23,684	0	0	2,858	3,106
California	34,362	34,169	0.6%	15,422	10,592	16,082	20,471	0	0	2,858	3,106
Oregon	743	3,346	-78.0%	397	2,083	345	1,263	0	0	0	0
Washington	939	3,691	-75.0%	939	1,741	0	1,950	0	0	0	0
Pacific Noncontiguous	124	1,149	-89.0%	124	1,149	0	0	0	0	0	0
Alaska	124	1,149	-89.0%	124	1,149	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	625,781	830,090	-25.0%	313,928	398,370	260,637	372,428	483	587	50,733	58,704

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

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

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	103,616	139,882	-26.0%	260	389	103,356	139,493	0	0	0	0
Connecticut	37,967	49,453	-23.0%	0	0	37,967	49,453	0	0	0	0
Maine	15	8,391	-100.0%	0	0	15	8,391	0	0	0	0
Massachusetts	51,855	53,910	-3.8%	72	308	51,784	53,602	0	0	0	0
New Hampshire	8,830	10,730	-18.0%	188	81	8,642	10,650	0	0	0	0
Rhode Island	4,949	17,398	-72.0%	0	0	4,949	17,398	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	311,556	421,754	-26.0%	29,599	35,023	280,524	385,762	0	0	1,432	970
New Jersey	57,331	110,635	-48.0%	0	0	57,331	110,635	0	0	0	0
New York	117,385	147,220	-20.0%	29,599	35,023	87,327	111,808	0	0	458	389
Pennsylvania	136,840	163,899	-17.0%	0	0	135,866	163,319	0	0	974	581
East North Central	223,192	333,058	-33.0%	83,640	147,381	130,804	178,543	2,416	2,843	6,331	4,291
Illinois	24,315	43,892	-45.0%	85	3,828	24,207	40,051	0	0	23	14
Indiana	42,246	58,458	-28.0%	34,474	46,428	7,772	12,029	0	0	0	0
Michigan	67,617	96,108	-30.0%	12,887	29,898	49,581	60,947	2,416	2,843	2,732	2,419
Ohio	67,445	83,533	-19.0%	19,182	21,519	45,980	61,904	0	0	2,283	110
Wisconsin	21,569	51,067	-58.0%	17,011	45,707	3,265	3,612	0	0	1,294	1,747
West North Central	12,179	59,769	-80.0%	10,445	50,105	29	9,055	481	601	1,225	8
Iowa	4,277	10,815	-60.0%	3,108	10,807	0	0	0	0	1,169	8
Kansas	4,624	4,295	7.7%	4,624	4,295	0	0	0	0	0	0
Minnesota	269	26,591	-99.0%	181	21,839	29	4,751	4	1	56	0
Missouri	1,796	14,483	-88.0%	1,319	9,578	0	4,304	477	600	0	0
Nebraska	578	735	-21.0%	578	735	0	0	0	0	0	0
North Dakota	635	472	35.0%	635	472	0	0	0	0	0	0
South Dakota	0	2,378	-100.0%	0	2,378	0	0	0	0	0	0
South Atlantic	797,415	917,087	-13.0%	680,418	751,262	102,913	150,475	0	0	14,084	15,350
Delaware	11,575	21,186	-45.0%	0	0	11,575	15,417	0	0	0	5,769
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	398,243	453,656	-12.0%	392,206	420,860	5,069	32,796	0	0	969	0
Georgia	119,761	152,408	-21.0%	92,602	113,183	23,110	34,820	0	0	4,049	4,406
Maryland	12,865	14,964	-14.0%	0	0	11,852	14,072	0	0	1,013	892
North Carolina	101,368	121,870	-17.0%	89,197	109,038	11,873	12,832	0	0	297	0
South Carolina	43,075	43,499	-1.0%	36,958	34,218	5,667	8,378	0	0	450	903
Virginia	106,201	105,083	1.1%	68,848	73,554	33,338	28,351	0	0	4,015	3,178
West Virginia	4,326	4,420	-2.1%	607	408	429	3,809	0	0	3,290	202
East South Central	289,598	349,159	-17.0%	194,296	231,215	88,007	114,667	0	0	7,295	3,278
Alabama	120,902	144,867	-17.0%	45,354	43,250	75,549	101,618	0	0	0	0
Kentucky	17,347	24,926	-30.0%	16,207	23,368	1,140	1,558	0	0	0	0
Mississippi	117,536	144,908	-19.0%	106,218	133,417	11,319	11,492	0	0	0	0
Tennessee	33,812	34,458	-1.9%	26,518	31,180	0	0	0	0	7,295	3,278
West South Central	758,911	1,123,541	-32.0%	155,124	325,604	385,543	545,475	0	0	218,245	252,462
Arkansas	27,519	50,613	-46.0%	30	18,763	26,610	30,733	0	0	879	1,116
Louisiana	166,055	223,348	-26.0%	70,040	109,630	15,231	25,252	0	0	80,784	88,465
Oklahoma	64,001	98,945	-35.0%	39,306	69,282	24,089	29,663	0	0	607	0
Texas	501,335	750,636	-33.0%	45,748	127,929	319,613	459,826	0	0	135,975	162,881
Mountain	188,142	247,512	-24.0%	159,000	202,664	28,801	44,495	0	0	342	353
Arizona	55,276	79,981	-31.0%	41,472	55,762	13,805	24,219	0	0	0	0
Colorado	31,570	36,335	-13.0%	26,756	30,556	4,813	5,778	0	0	0	0
Idaho	0	8,113	-100.0%	0	4,204	0	3,909	0	0	0	0
Montana	1,165	0	--	1,165	0	0	0	0	0	0	0
Nevada	61,615	72,637	-15.0%	61,615	72,637	0	0	0	0	0	0
New Mexico	24,884	28,136	-12.0%	15,229	17,775	9,655	10,361	0	0	0	0
Utah	13,410	22,284	-40.0%	12,549	21,703	519	228	0	0	342	353
Wyoming	222	28	701.0%	214	28	8	0	0	0	0	0
Pacific Contiguous	199,669	255,313	-22.0%	82,208	99,414	102,898	139,163	0	0	14,563	16,735
California	175,586	199,821	-12.0%	71,297	72,848	89,726	110,238	0	0	14,563	16,735
Oregon	16,027	33,337	-52.0%	2,856	13,515	13,171	19,822	0	0	0	0
Washington	8,056	22,155	-64.0%	8,056	13,051	0	9,104	0	0	0	0
Pacific Noncontiguous	650	5,947	-89.0%	650	5,947	0	0	0	0	0	0
Alaska	650	5,947	-89.0%	650	5,947	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,884,928	3,853,025	-25.0%	1,395,639	1,849,004	1,222,876	1,707,130	2,897	3,445	263,517	293,446

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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, May 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016
New England	W	W	W	--	3.92	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	3.92	--	--	3.92	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.92	1.91	0.5%	--	--	1.92	1.91
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	1.85	W	W	--	--	1.85	W
East North Central	2.06	2.14	-3.7%	2.15	2.14	1.89	2.15
Illinois	W	W	W	1.81	2.00	W	W
Indiana	W	W	W	2.27	2.24	W	W
Michigan	W	W	W	2.14	2.18	W	W
Ohio	1.89	2.09	-9.6%	1.70	1.83	1.96	2.18
Wisconsin	2.29	2.12	8.0%	2.29	2.12	--	--
West North Central	1.79	1.73	3.5%	1.79	1.73	--	--
Iowa	1.72	1.64	4.9%	1.72	1.64	--	--
Kansas	1.79	1.68	6.5%	1.79	1.68	--	--
Minnesota	2.08	2.07	0.5%	2.08	2.07	--	--
Missouri	1.87	1.85	1.1%	1.87	1.85	--	--
Nebraska	1.39	1.32	5.3%	1.39	1.32	--	--
North Dakota	1.69	1.62	4.3%	1.69	1.62	--	--
South Dakota	2.32	2.27	2.2%	2.32	2.27	--	--
South Atlantic	2.71	2.76	-1.8%	2.74	2.78	2.47	2.61
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	3.03	W	W	3.03	2.94	--	W
Georgia	2.78	2.84	-2.1%	2.78	2.84	--	--
Maryland	2.56	2.79	-8.2%	--	--	2.56	2.79
North Carolina	W	2.96	W	2.97	2.96	W	--
South Carolina	3.23	3.34	-3.3%	3.23	3.34	--	--
Virginia	W	2.87	W	2.95	2.87	W	--
West Virginia	W	W	W	2.20	2.39	W	W
East South Central	W	W	W	2.05	2.19	W	W
Alabama	2.11	2.48	-15.0%	2.11	2.48	--	--
Kentucky	1.98	2.09	-5.3%	1.98	2.09	--	--
Mississippi	W	W	W	2.16	2.65	W	W
Tennessee	2.19	2.09	4.8%	2.19	2.09	--	--
West South Central	2.02	1.94	4.1%	2.11	2.15	1.96	1.71
Arkansas	W	W	W	2.17	2.05	W	W
Louisiana	W	W	W	2.40	2.94	W	W
Oklahoma	W	W	W	1.85	1.87	W	W
Texas	1.99	1.81	9.9%	2.06	2.06	1.95	1.65
Mountain	W	W	W	1.89	1.83	W	W
Arizona	2.31	2.13	8.5%	2.31	2.13	--	--
Colorado	1.83	1.85	-1.1%	1.83	1.85	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.60	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	1.91	1.68	14.0%	1.91	1.68	--	--
Utah	1.94	1.99	-2.5%	1.94	1.99	--	--
Wyoming	W	1.53	W	1.57	1.53	W	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.22	2.94	W	W
Alaska	3.22	2.94	9.5%	3.22	2.94	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.12	2.16	-1.9%	2.16	2.17	1.99	2.10

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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) May 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	W	3.05	W	4.34	3.93	W	2.99
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	3.93	10.0%	4.34	3.93	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.02	2.10	-3.8%	--	--	2.02	2.10
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	1.97	W	W	--	--	1.97	W
East North Central	2.03	2.10	-3.3%	2.13	2.18	1.89	1.99
Illinois	W	W	W	1.85	2.01	W	W
Indiana	W	W	W	2.18	2.25	W	W
Michigan	W	W	W	2.19	2.26	W	W
Ohio	1.92	2.08	-7.7%	1.74	1.93	1.98	2.13
Wisconsin	2.26	2.17	4.1%	2.26	2.17	--	--
West North Central	1.77	1.72	2.9%	1.77	1.72	--	--
Iowa	1.70	1.61	5.6%	1.70	1.61	--	--
Kansas	1.73	1.70	1.8%	1.73	1.70	--	--
Minnesota	2.10	2.09	0.5%	2.10	2.09	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.38	1.34	3.0%	1.38	1.34	--	--
North Dakota	1.64	1.56	5.1%	1.64	1.56	--	--
South Dakota	2.29	2.26	1.3%	2.29	2.26	--	--
South Atlantic	2.71	2.76	-1.8%	2.73	2.79	2.50	2.48
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.99	3.02	W	W
Georgia	2.75	2.86	-3.8%	2.75	2.86	--	--
Maryland	2.85	2.75	3.6%	--	--	2.85	2.75
North Carolina	W	3.08	W	2.97	3.08	W	--
South Carolina	3.29	3.27	0.6%	3.29	3.27	--	--
Virginia	W	W	W	2.75	2.92	W	W
West Virginia	W	W	W	2.21	2.33	W	W
East South Central	W	W	W	2.05	2.22	W	W
Alabama	2.15	2.46	-13.0%	2.15	2.46	--	--
Kentucky	1.96	2.12	-7.5%	1.96	2.12	--	--
Mississippi	W	W	W	2.73	2.69	W	W
Tennessee	2.24	2.25	-0.4%	2.24	2.25	--	--
West South Central	1.95	1.93	1.0%	2.12	2.17	1.82	1.67
Arkansas	W	W	W	2.13	2.24	W	W
Louisiana	W	W	W	2.41	2.72	W	W
Oklahoma	W	W	W	1.90	1.92	W	W
Texas	1.90	1.78	6.7%	2.12	2.11	1.80	1.61
Mountain	W	W	W	1.92	1.87	W	W
Arizona	2.25	2.18	3.2%	2.25	2.18	--	--
Colorado	1.84	1.88	-2.1%	1.84	1.88	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.69	--	W	W
Nevada	W	W	W	--	1.95	W	W
New Mexico	1.94	1.84	5.4%	1.94	1.84	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	W	1.59	W	1.67	1.59	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	3.06	3.09	W	W
Alaska	3.06	3.09	-1.0%	3.06	3.09	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.09	2.14	-2.3%	2.14	2.18	1.94	2.00

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016
New England	12.29	W	W	12.92	9.59	11.85	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.56	W	W
New Hampshire	12.92	11.82	9.3%	12.92	11.82	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.22	11.44	6.8%	11.48	--	12.43	11.44
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	11.48	--	W	W
Pennsylvania	12.42	11.41	8.9%	--	--	12.42	11.41
East North Central	11.97	12.54	-4.5%	11.91	11.30	12.02	13.85
Illinois	12.18	12.55	-2.9%	11.99	--	12.20	12.55
Indiana	12.11	10.94	11.0%	12.11	10.94	--	--
Michigan	11.26	11.53	-2.3%	11.26	11.53	--	--
Ohio	12.02	13.82	-13.0%	12.39	11.44	11.98	14.36
Wisconsin	12.02	10.82	11.0%	12.02	10.82	--	--
West North Central	12.08	10.95	10.0%	12.08	10.95	--	--
Iowa	12.14	11.05	9.9%	12.14	11.05	--	--
Kansas	11.57	10.96	5.6%	11.57	10.96	--	--
Minnesota	12.48	11.29	11.0%	12.48	11.29	--	--
Missouri	11.75	11.15	5.4%	11.75	11.15	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	13.18	10.49	26.0%	13.18	10.49	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	11.85	W	W	11.88	8.92	11.53	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	11.90	9.45	26.0%	11.90	9.45	--	--
Georgia	11.29	W	W	11.29	10.48	--	W
Maryland	W	9.78	W	--	--	W	9.78
North Carolina	11.53	10.71	7.7%	11.53	10.71	--	--
South Carolina	12.33	11.66	5.7%	12.33	11.66	--	--
Virginia	W	W	W	12.76	7.89	W	W
West Virginia	12.80	12.28	4.2%	12.80	12.28	--	--
East South Central	W	11.10	W	11.51	11.10	W	--
Alabama	W	11.75	W	12.01	11.75	W	--
Kentucky	11.77	11.22	4.9%	11.77	11.22	--	--
Mississippi	11.15	--	--	11.15	--	--	--
Tennessee	11.16	10.80	3.3%	11.16	10.80	--	--
West South Central	12.01	10.88	10.0%	11.83	9.95	12.23	11.94
Arkansas	W	W	W	11.81	10.69	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	12.78	--	--	12.78	--	--	--
Texas	W	W	W	11.76	9.46	W	W
Mountain	W	W	W	12.82	11.69	W	W
Arizona	12.24	11.72	4.4%	12.24	11.72	--	--
Colorado	12.58	--	--	12.58	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.66	--	W	W
New Mexico	12.71	12.14	4.7%	12.71	12.14	--	--
Utah	13.82	12.81	7.9%	13.82	12.81	--	--
Wyoming	13.02	10.34	26.0%	13.02	10.34	--	--
Pacific Contiguous	W	--	W	--	--	W	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	--	W	--	--	W	--
Pacific Noncontiguous	W	W	W	11.04	8.57	W	W
Alaska	--	--	--	--	--	--	--
Hawaii	W	W	W	11.04	8.57	W	W
U.S. Total	W	9.78	W	11.38	9.12	W	11.84

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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) May 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	W	8.74	W	13.98	9.60	W	7.88
Connecticut	W	8.59	W	--	--	W	8.59
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	13.98	9.69	44.0%	13.98	9.69	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.80	7.94	61.0%	9.21	8.28	15.76	7.92
New Jersey	W	W	W	--	--	W	W
New York	13.04	W	W	9.21	8.28	21.60	W
Pennsylvania	W	9.46	W	--	--	W	9.46
East North Central	12.34	9.76	26.0%	12.34	9.56	12.34	10.00
Illinois	12.61	W	W	12.02	9.26	12.63	W
Indiana	12.28	9.43	30.0%	12.28	9.43	--	--
Michigan	11.74	9.40	25.0%	11.74	9.40	--	--
Ohio	12.54	W	W	13.29	9.44	12.20	W
Wisconsin	12.10	11.49	5.3%	12.10	11.49	--	--
West North Central	12.31	9.03	36.0%	12.31	9.03	--	--
Iowa	12.69	9.30	36.0%	12.69	9.30	--	--
Kansas	12.11	8.92	36.0%	12.11	8.92	--	--
Minnesota	12.49	9.78	28.0%	12.49	9.78	--	--
Missouri	12.30	9.37	31.0%	12.30	9.37	--	--
Nebraska	--	9.96	--	--	9.96	--	--
North Dakota	12.10	8.13	49.0%	12.10	8.13	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.39	W	W	12.35	8.56	12.82	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.36	9.52	30.0%	12.36	9.52	--	--
Georgia	W	8.39	W	11.68	8.63	W	7.68
Maryland	11.26	7.99	41.0%	--	--	11.26	7.99
North Carolina	W	W	W	12.17	9.05	W	W
South Carolina	12.83	10.03	28.0%	12.83	10.03	--	--
Virginia	W	W	W	12.64	8.01	W	W
West Virginia	12.82	9.87	30.0%	12.82	9.87	--	--
East South Central	W	W	W	12.04	9.10	W	W
Alabama	W	W	W	12.71	8.67	W	W
Kentucky	12.01	9.49	27.0%	12.01	9.49	--	--
Mississippi	11.87	7.97	49.0%	11.87	7.97	--	--
Tennessee	11.88	9.02	32.0%	11.88	9.02	--	--
West South Central	12.43	9.57	30.0%	12.09	9.45	12.66	10.09
Arkansas	W	W	W	11.92	9.16	W	W
Louisiana	--	W	W	--	9.39	--	W
Oklahoma	12.91	10.77	20.0%	12.91	10.77	--	--
Texas	W	W	W	12.08	9.72	W	W
Mountain	13.40	W	W	13.41	10.24	13.38	W
Arizona	13.23	10.57	25.0%	13.23	10.57	--	--
Colorado	12.52	8.99	39.0%	12.52	8.99	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.66	10.46	W	W
New Mexico	12.65	10.05	26.0%	12.65	10.05	--	--
Utah	W	10.51	W	13.87	10.51	W	--
Wyoming	13.72	10.15	35.0%	13.72	10.15	--	--
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	10.84	7.11	W	W
Alaska	16.28	11.55	41.0%	16.28	11.55	--	--
Hawaii	W	W	W	10.84	7.10	W	W
U.S. Total	11.65	8.04	45.0%	11.41	7.87	12.54	8.61

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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 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, May 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 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	1.33	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.47	1.30	13.0%	1.47	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.81	1.70	6.5%	1.81	1.70	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.27	1.20	89.0%	2.27	1.20	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.27	1.20	89.0%	2.27	1.20	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.50	--	--	1.50	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.50	--	--	1.50	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.21	1.21	83.0%	2.21	1.21	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.21	1.21	83.0%	2.21	1.21	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.05	W	W	2.05	1.22	--	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.49	W	W	1.49	1.12	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.48	1.30	14.0%	1.48	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.71	4.7%	1.79	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.61	1.21	116.0%	2.61	1.21	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.61	1.21	116.0%	2.61	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	2.12	1.12	89.0%	2.12	1.12	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.12	1.12	89.0%	2.12	1.12	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.05	1.32	55.0%	2.05	1.17	--	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, May 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017	May 2016	Percentage Change	May 2017	May 2016	May 2017	May 2016
New England	3.28	W	W	3.68	2.55	3.27	W
Connecticut	W	2.33	W	--	--	W	2.33
Maine	--	W	W	--	--	--	W
Massachusetts	3.26	2.05	59.0%	3.71	2.53	3.26	2.05
New Hampshire	W	W	W	3.66	2.62	W	W
Rhode Island	W	2.17	W	--	--	W	2.17
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.06	1.85	65.0%	3.23	1.94	3.04	1.84
New Jersey	3.14	1.89	66.0%	--	--	3.14	1.89
New York	3.19	2.06	55.0%	3.23	1.94	3.18	2.10
Pennsylvania	2.91	1.59	83.0%	--	--	2.91	1.59
East North Central	3.20	2.18	47.0%	3.23	2.29	3.18	2.07
Illinois	W	2.19	W	3.89	2.49	W	2.15
Indiana	W	W	W	3.06	2.22	W	W
Michigan	3.33	2.21	51.0%	3.56	2.36	3.28	2.12
Ohio	3.04	1.92	58.0%	3.05	2.07	3.04	1.88
Wisconsin	W	W	W	3.49	2.36	W	W
West North Central	3.35	W	W	3.35	2.34	--	W
Iowa	2.67	1.98	35.0%	2.67	1.98	--	--
Kansas	3.97	3.04	31.0%	3.97	3.04	--	--
Minnesota	3.52	W	W	3.52	2.35	--	W
Missouri	3.34	W	W	3.34	2.49	--	W
Nebraska	3.79	2.57	47.0%	3.79	2.57	--	--
North Dakota	4.37	2.04	114.0%	4.37	2.04	--	--
South Dakota	--	1.97	--	--	1.97	--	--
South Atlantic	3.95	3.09	28.0%	4.02	3.21	3.34	2.18
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.15	3.57	W	W
Georgia	W	2.37	W	3.89	2.42	W	2.18
Maryland	3.20	2.37	35.0%	--	--	3.20	2.37
North Carolina	W	W	W	4.00	3.59	W	W
South Carolina	W	W	W	3.54	2.74	W	W
Virginia	3.43	W	W	3.55	2.29	3.12	W
West Virginia	W	1.87	W	3.17	2.18	W	1.85
East South Central	3.31	2.15	54.0%	3.27	2.15	3.42	2.16
Alabama	W	W	W	3.43	2.42	W	W
Kentucky	W	W	W	3.70	2.62	W	W
Mississippi	W	W	W	3.18	2.05	W	W
Tennessee	2.93	1.95	50.0%	2.93	1.95	--	--
West South Central	3.25	2.12	53.0%	3.37	2.19	3.18	2.07
Arkansas	W	W	W	3.26	2.46	W	W
Louisiana	W	W	W	3.40	2.16	W	W
Oklahoma	W	W	W	3.38	2.26	W	W
Texas	3.19	2.11	51.0%	3.34	2.15	3.16	2.10
Mountain	3.50	2.52	39.0%	3.50	2.52	3.58	2.46
Arizona	W	W	W	3.69	2.72	W	W
Colorado	W	W	W	3.41	2.68	W	W
Idaho	--	2.41	--	--	2.41	--	--
Montana	2.40	--	--	2.40	--	--	--
Nevada	3.37	2.45	38.0%	3.37	2.45	--	--
New Mexico	3.52	2.34	50.0%	3.52	2.34	--	--
Utah	W	W	W	3.51	2.16	W	W
Wyoming	W	11.66	W	4.60	11.66	W	--
Pacific Contiguous	3.60	2.40	50.0%	3.86	2.77	3.28	2.11
California	W	W	W	3.93	3.07	W	W
Oregon	W	W	W	2.57	1.74	W	W
Washington	3.54	W	W	3.54	2.24	--	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	3.51	2.41	46.0%	3.71	2.68	3.20	2.04

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2017 YTD	May 2016 YTD	Percentage Change	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	4.40	3.33	32.0%	3.81	3.13	4.41	3.33
Connecticut	W	4.11	W	--	--	W	4.11
Maine	W	W	W	--	--	W	W
Massachusetts	3.77	2.81	34.0%	3.79	3.15	3.77	2.80
New Hampshire	W	W	W	3.81	3.03	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.56	2.21	61.0%	4.29	2.77	3.46	2.15
New Jersey	3.39	2.14	58.0%	--	--	3.39	2.14
New York	4.08	2.63	55.0%	4.29	2.77	4.00	2.58
Pennsylvania	3.17	1.86	70.0%	--	--	3.17	1.86
East North Central	3.20	2.21	45.0%	3.22	2.36	3.18	2.09
Illinois	3.11	2.31	35.0%	4.35	2.56	3.11	2.29
Indiana	W	W	W	3.08	2.38	W	W
Michigan	3.26	2.26	44.0%	3.41	2.40	3.22	2.20
Ohio	3.12	1.86	68.0%	3.05	1.97	3.15	1.82
Wisconsin	W	W	W	3.56	2.47	W	W
West North Central	3.61	W	W	3.61	2.54	--	W
Iowa	2.85	2.32	23.0%	2.85	2.32	--	--
Kansas	3.99	3.28	22.0%	3.99	3.28	--	--
Minnesota	3.47	W	W	3.47	2.67	--	W
Missouri	3.07	W	W	3.07	2.32	--	W
Nebraska	4.65	2.48	88.0%	4.65	2.48	--	--
North Dakota	4.88	2.15	127.0%	4.88	2.15	--	--
South Dakota	--	1.99	--	--	1.99	--	--
South Atlantic	3.98	3.23	23.0%	4.03	3.35	3.42	2.26
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.11	3.65	W	W
Georgia	W	2.46	W	3.77	2.52	W	2.28
Maryland	W	2.93	W	--	--	W	2.93
North Carolina	W	W	W	4.15	3.52	W	W
South Carolina	W	W	W	3.55	3.02	W	W
Virginia	3.84	W	W	4.04	2.83	2.98	W
West Virginia	3.26	W	W	3.12	1.90	3.47	W
East South Central	3.37	2.41	40.0%	3.37	2.44	3.36	2.32
Alabama	W	W	W	3.52	2.47	W	W
Kentucky	W	W	W	3.94	2.75	W	W
Mississippi	W	W	W	3.28	2.45	W	W
Tennessee	3.15	2.17	45.0%	3.15	2.17	--	--
West South Central	3.19	2.14	49.0%	3.35	2.23	3.11	2.07
Arkansas	W	W	W	3.30	2.34	W	W
Louisiana	W	W	W	3.36	2.21	W	W
Oklahoma	W	W	W	3.38	2.27	W	W
Texas	3.14	2.12	48.0%	3.31	2.22	3.11	2.09
Mountain	3.74	W	W	3.74	2.57	3.82	W
Arizona	W	W	W	4.02	2.66	W	W
Colorado	W	W	W	3.64	2.83	W	W
Idaho	--	2.51	--	--	2.51	--	--
Montana	2.21	--	--	2.21	--	--	--
Nevada	3.68	2.51	47.0%	3.68	2.51	--	--
New Mexico	3.53	2.50	41.0%	3.53	2.50	--	--
Utah	W	W	W	3.70	2.23	W	W
Wyoming	W	6.59	W	4.53	6.59	W	--
Pacific Contiguous	3.78	2.62	44.0%	4.09	3.00	3.52	2.31
California	W	2.67	W	4.12	3.09	W	2.35
Oregon	W	W	W	3.28	2.07	W	W
Washington	4.13	W	W	4.13	3.50	--	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	3.62	2.58	40.0%	3.79	2.83	3.38	2.24

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, May 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	3	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	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	1,392	3.03	8.8	0	--	--	0	--	--
New Jersey	50	1.81	7.1	0	--	--	0	--	--
New York	38	2.32	8.2	0	--	--	0	--	--
Pennsylvania	1,304	3.10	8.8	0	--	--	0	--	--
East North Central	5,373	2.96	10.4	5,517	0.25	4.7	0	--	--
Illinois	836	3.61	19.9	1,972	0.23	4.6	0	--	--
Indiana	2,340	2.54	9.3	91	0.22	4.5	0	--	--
Michigan	189	2.26	7.7	2,055	0.26	4.7	0	--	--
Ohio	1,948	3.29	8.9	0	--	--	0	--	--
Wisconsin	60	2.63	8.6	1,399	0.26	5.1	0	--	--
West North Central	92	3.21	9.5	6,349	0.26	4.8	1,868	0.83	9.7
Iowa	23	3.60	8.1	986	0.24	4.6	0	--	--
Kansas	15	3.42	13.9	571	0.29	4.9	0	--	--
Minnesota	0	--	--	752	0.31	5.5	0	--	--
Missouri	53	2.99	8.9	2,931	0.23	4.6	0	--	--
Nebraska	0	--	--	875	0.27	5.0	0	--	--
North Dakota	0	--	--	64	0.36	5.4	1,868	0.83	9.7
South Dakota	0	--	--	170	0.34	5.2	0	--	--
South Atlantic	6,916	2.21	10.7	747	0.34	4.9	0	--	--
Delaware	47	2.59	7.7	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,489	1.98	8.4	0	--	--	0	--	--
Georgia	661	2.46	8.1	747	0.34	4.9	0	--	--
Maryland	190	2.16	12.7	0	--	--	0	--	--
North Carolina	1,066	1.63	9.7	0	--	--	0	--	--
South Carolina	532	1.48	9.2	0	--	--	0	--	--
Virginia	569	1.26	21.4	0	--	--	0	--	--
West Virginia	2,362	2.91	11.2	0	--	--	0	--	--
East South Central	2,890	2.70	9.1	1,932	0.25	4.9	282	0.44	13.5
Alabama	415	1.95	10.0	718	0.28	5.1	0	--	--
Kentucky	1,871	3.02	9.3	751	0.24	4.9	0	--	--
Mississippi	49	2.97	8.6	42	0.30	5.1	282	0.44	13.5
Tennessee	554	2.18	8.1	421	0.23	4.6	0	--	--
West South Central	56	1.41	22.3	6,440	0.29	5.1	2,769	1.01	17.0
Arkansas	5	0.63	8.3	667	0.24	4.8	0	--	--
Louisiana	0	--	--	551	0.25	4.8	265	0.51	15.1
Oklahoma	51	1.49	23.8	362	0.24	4.7	0	--	--
Texas	0	--	--	4,859	0.31	5.3	2,504	1.06	17.2
Mountain	2,207	0.64	13.7	3,815	0.48	8.3	20	0.49	9.1
Arizona	564	0.66	10.2	520	0.54	10.5	0	--	--
Colorado	197	0.47	11.4	835	0.32	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	461	0.65	9.8	20	0.49	9.1
Nevada	0	--	--	46	0.32	5.0	0	--	--
New Mexico	491	0.85	23.2	225	0.75	20.7	0	--	--
Utah	955	0.58	11.8	59	1.01	8.8	0	--	--
Wyoming	0	--	--	1,668	0.43	6.8	0	--	--
Pacific Contiguous	44	0.51	10.8	206	0.47	7.8	0	--	--
California	44	0.51	10.8	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	206	0.47	7.8	0	--	--
Pacific Noncontiguous	0	--	--	60	0.14	4.1	10	0.12	6.6
Alaska	0	--	--	0	--	--	10	0.12	6.6
Hawaii	0	--	--	60	0.14	4.1	0	--	--
U.S. Total	18,973	2.39	10.6	25,065	0.30	5.4	4,949	0.91	14.0

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 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, May 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	3,147	2.63	9.2	3,826	0.26	4.8	0	--	--
Illinois	231	3.10	11.7	282	0.21	4.5	0	--	--
Indiana	2,221	2.49	9.2	91	0.22	4.5	0	--	--
Michigan	153	2.40	7.9	2,055	0.26	4.7	0	--	--
Ohio	495	3.06	8.6	0	--	--	0	--	--
Wisconsin	46	3.19	8.0	1,399	0.26	5.1	0	--	--
West North Central	68	3.08	10.0	6,044	0.26	4.8	1,868	0.83	9.7
Iowa	0	--	--	805	0.25	4.6	0	--	--
Kansas	15	3.42	13.9	571	0.29	4.9	0	--	--
Minnesota	0	--	--	692	0.31	5.4	0	--	--
Missouri	53	2.99	8.9	2,931	0.23	4.6	0	--	--
Nebraska	0	--	--	811	0.28	5.1	0	--	--
North Dakota	0	--	--	64	0.36	5.4	1,868	0.83	9.7
South Dakota	0	--	--	170	0.34	5.2	0	--	--
South Atlantic	6,099	2.15	10.5	747	0.34	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,479	1.99	8.4	0	--	--	0	--	--
Georgia	654	2.47	8.1	747	0.34	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,026	1.66	9.8	0	--	--	0	--	--
South Carolina	532	1.48	9.2	0	--	--	0	--	--
Virginia	509	1.32	23.3	0	--	--	0	--	--
West Virginia	1,899	2.78	10.8	0	--	--	0	--	--
East South Central	2,820	2.76	9.2	1,932	0.25	4.9	0	--	--
Alabama	415	1.95	10.0	718	0.28	5.1	0	--	--
Kentucky	1,871	3.02	9.3	751	0.24	4.9	0	--	--
Mississippi	49	2.97	8.6	42	0.30	5.1	0	--	--
Tennessee	484	2.40	8.3	421	0.23	4.6	0	--	--
West South Central	0	--	--	3,083	0.26	5.0	661	1.18	18.2
Arkansas	0	--	--	634	0.24	4.8	0	--	--
Louisiana	0	--	--	271	0.22	4.7	265	0.51	15.1
Oklahoma	0	--	--	290	0.23	4.7	0	--	--
Texas	0	--	--	1,888	0.28	5.1	396	1.69	20.5
Mountain	2,199	0.64	13.7	3,274	0.46	8.1	20	0.49	9.1
Arizona	564	0.66	10.2	520	0.54	10.5	0	--	--
Colorado	197	0.47	11.4	835	0.32	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	20	0.49	9.1
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	491	0.85	23.2	225	0.75	20.7	0	--	--
Utah	946	0.58	11.8	59	1.01	8.8	0	--	--
Wyoming	0	--	--	1,634	0.43	6.8	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	10	0.12	6.6
Alaska	0	--	--	0	--	--	10	0.12	6.6
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	14,332	2.17	10.4	18,906	0.29	5.4	2,559	0.91	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, May 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	3	1.45	6.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	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	1,367	3.05	8.8	0	--	--	0	--	--
New Jersey	50	1.81	7.1	0	--	--	0	--	--
New York	14	3.00	9.5	0	--	--	0	--	--
Pennsylvania	1,304	3.10	8.8	0	--	--	0	--	--
East North Central	2,115	3.43	12.2	1,625	0.21	4.5	0	--	--
Illinois	508	3.88	27.2	1,625	0.21	4.5	0	--	--
Indiana	119	3.44	9.8	0	--	--	0	--	--
Michigan	35	1.62	6.7	0	--	--	0	--	--
Ohio	1,453	3.37	9.0	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	743	2.88	11.9	0	--	--	0	--	--
Delaware	47	2.59	7.7	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	176	2.19	12.0	0	--	--	0	--	--
North Carolina	12	0.75	6.1	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	45	0.91	8.6	0	--	--	0	--	--
West Virginia	463	3.44	12.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	282	0.44	13.5
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	282	0.44	13.5
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	51	1.49	23.8	3,326	0.32	5.3	2,108	0.96	16.7
Arkansas	0	--	--	33	0.22	4.5	0	--	--
Louisiana	0	--	--	280	0.28	4.9	0	--	--
Oklahoma	51	1.49	23.8	42	0.35	4.8	0	--	--
Texas	0	--	--	2,971	0.33	5.4	2,108	0.96	16.7
Mountain	0	--	--	542	0.61	9.2	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	461	0.65	9.8	0	--	--
Nevada	0	--	--	46	0.32	5.0	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	34	0.49	6.7	0	--	--
Pacific Contiguous	0	--	--	206	0.47	7.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	206	0.47	7.8	0	--	--
Pacific Noncontiguous	0	--	--	60	0.14	4.1	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.14	4.1	0	--	--
U.S. Total	4,279	3.18	11.1	5,758	0.32	5.5	2,390	0.91	16.4

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

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

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, May 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	3.23	10.7	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	3.23	10.7	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	3.23	10.7	0	--	--	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, May 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	24	1.92	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	24	1.92	7.5	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	111	3.26	8.8	65	0.80	6.5	0	--	--
Illinois	97	3.70	8.5	65	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.63	8.0	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	14	0.40	11.1	0	--	--	0	--	--
West North Central	23	3.60	8.1	305	0.22	4.7	0	--	--
Iowa	23	3.60	8.1	181	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	60	0.25	5.6	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	64	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	75	0.99	9.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.68	7.5	0	--	--	0	--	--
Georgia	7	1.16	8.8	0	--	--	0	--	--
Maryland	14	1.71	23.3	0	--	--	0	--	--
North Carolina	29	0.92	6.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	15	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	70	0.83	7.2	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	70	0.83	7.2	0	--	--	0	--	--
West South Central	5	0.63	8.3	31	0.21	4.4	0	--	--
Arkansas	5	0.63	8.3	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	31	0.21	4.4	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	9	0.52	10.5	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	9	0.52	10.5	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	44	0.51	10.8	0	--	--	0	--	--
California	44	0.51	10.8	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	361	1.74	8.8	401	0.32	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 - May 2017 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779
Year 2015					
January	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
Year 2016					
January	130,764	109,870	75,892	660	317,186
February	115,820	102,877	73,909	647	293,253
March	100,123	105,180	75,907	610	281,819
April	88,107	101,464	75,801	595	265,967
May	93,981	107,900	78,246	582	280,708
June	124,888	119,673	80,234	632	325,427
July	153,976	129,265	83,369	648	367,258
August	155,851	134,078	85,061	632	375,622
Sept	129,111	122,961	79,719	637	332,428
October	101,137	112,346	77,960	613	292,056
November	92,797	104,454	75,048	592	272,891
December	120,840	109,548	75,124	652	306,163
Year 2017					
January	128,997	109,225	75,596	666	314,483
February	101,141	99,478	71,741	636	272,996
March	103,210	106,991	77,018	644	287,863
April	90,780	101,566	75,624	590	268,560
May	98,757	109,757	79,838	583	288,934
Year to Date					
2015	564,129	538,472	399,471	3,280	1,505,352
2016	528,794	527,291	379,755	3,093	1,438,933
2017	522,884	527,016	379,816	3,119	1,432,835
Rolling 12 Months Ending in May					
2016	1,368,762	1,349,571	966,791	7,450	3,692,573
2017	1,401,484	1,359,342	936,330	7,524	3,704,680

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 - May 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435
Year 2015					
January	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
Year 2016					
January	15,666	11,005	4,860	62	31,594
February	14,060	10,491	4,720	61	29,332
March	12,585	10,682	4,908	58	28,233
April	10,955	10,275	4,849	56	26,136
May	12,023	11,055	5,134	53	28,266
June	15,882	12,677	5,639	61	34,259
July	19,522	13,732	6,025	62	39,341
August	20,104	14,355	6,152	63	40,674
Sept	16,611	13,157	5,697	63	35,528
October	12,599	11,759	5,236	58	29,653
November	11,828	10,701	4,995	54	27,577
December	14,750	11,047	4,984	61	30,843
Year 2017					
January	15,758	11,126	4,964	62	31,910
February	12,961	10,424	4,755	60	28,201
March	13,315	11,210	5,189	61	29,774
April	11,525	10,564	4,992	56	27,137
May	12,857	11,608	5,434	56	29,954
Year to Date					
2015	70,010	56,428	26,939	333	153,710
2016	65,289	53,509	24,472	290	143,560
2017	66,416	54,932	25,335	295	146,977
Rolling 12 Months Ending in May					
2016	172,903	141,862	65,700	728	381,192
2017	177,712	142,360	64,063	716	384,851

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 - May 2017 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28
Year 2015					
January	12.10	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
Year 2016					
January	11.98	10.02	6.40	9.41	9.96
February	12.14	10.20	6.39	9.49	10.00
March	12.57	10.16	6.47	9.43	10.02
April	12.43	10.13	6.40	9.41	9.83
May	12.79	10.25	6.56	9.13	10.07
June	12.72	10.59	7.03	9.59	10.53
July	12.68	10.62	7.23	9.63	10.71
August	12.90	10.71	7.23	9.89	10.83
Sept	12.87	10.70	7.15	9.83	10.69
October	12.46	10.47	6.72	9.43	10.15
November	12.75	10.24	6.66	9.04	10.11
December	12.21	10.08	6.63	9.40	10.07
Year 2017					
January	12.22	10.19	6.57	9.32	10.15
February	12.82	10.48	6.63	9.47	10.33
March	12.90	10.48	6.74	9.48	10.34
April	12.70	10.40	6.60	9.44	10.10
May	13.02	10.58	6.81	9.58	10.37
Year to Date					
2015	12.41	10.48	6.74	10.15	10.21
2016	12.35	10.15	6.44	9.38	9.98
2017	12.70	10.42	6.67	9.45	10.26
Rolling 12 Months Ending in May					
2016	12.63	10.51	6.80	9.77	10.32
2017	12.68	10.47	6.84	9.51	10.39

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, May 2017 and 2016 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	3,111	3,057	3,932	3,966	1,344	1,409	42	41	8,429	8,473
Connecticut	801	789	935	952	247	256	13	13	1,996	2,009
Maine	341	333	311	306	220	240	0	0	872	880
Massachusetts	1,316	1,295	1,916	1,936	551	572	27	26	3,810	3,829
New Hampshire	300	295	328	327	154	157	0	0	781	778
Rhode Island	211	204	283	288	56	63	2	2	553	558
Vermont	142	141	158	157	117	121	0	0	417	419
Middle Atlantic	8,523	8,638	11,914	12,200	5,806	5,755	289	287	26,533	26,881
New Jersey	1,881	1,969	2,999	3,097	592	590	23	25	5,495	5,681
New York	3,306	3,318	5,568	5,736	1,393	1,412	207	213	10,475	10,679
Pennsylvania	3,336	3,351	3,347	3,367	3,821	3,753	59	50	10,563	10,521
East North Central	12,244	12,322	14,757	14,723	15,386	15,514	45	44	42,433	42,603
Illinois	2,911	3,002	3,990	3,925	3,344	3,488	40	38	10,286	10,454
Indiana	2,137	2,070	1,947	1,914	3,488	3,458	1	2	7,573	7,443
Michigan	2,340	2,386	3,087	3,126	2,557	2,667	1	0	7,985	8,178
Ohio	3,350	3,369	3,888	3,900	4,023	3,948	3	3	11,263	11,220
Wisconsin	1,507	1,495	1,846	1,859	1,973	1,954	0	0	5,326	5,308
West North Central	7,099	6,375	8,043	8,055	7,366	6,978	4	3	22,511	21,412
Iowa	892	827	926	923	1,925	1,882	0	0	3,742	3,631
Kansas	898	853	1,246	1,227	918	905	0	0	3,063	2,985
Minnesota	1,506	1,459	1,839	1,870	1,739	1,600	2	2	5,086	4,931
Missouri	2,574	2,058	2,418	2,437	1,062	996	2	2	6,056	5,493
Nebraska	635	599	758	759	853	802	0	0	2,246	2,160
North Dakota	288	285	481	465	642	582	0	0	1,410	1,332
South Dakota	305	295	376	373	227	211	0	0	908	880
South Atlantic	26,489	24,925	26,019	25,489	12,120	11,882	106	118	64,735	62,414
Delaware	292	293	330	347	180	179	0	0	802	819
District of Columbia	154	126	655	670	15	14	27	32	850	843
Florida	10,463	9,724	8,453	8,126	1,436	1,442	8	8	20,360	19,301
Georgia	4,101	3,932	3,909	3,854	2,639	2,726	14	13	10,663	10,525
Maryland	1,699	1,677	2,305	2,355	315	322	44	52	4,363	4,406
North Carolina	4,027	3,691	3,801	3,816	2,621	2,307	0	0	10,450	9,814
South Carolina	2,204	2,057	1,855	1,794	2,296	2,340	0	0	6,356	6,191
Virginia	2,890	2,743	4,087	3,899	1,468	1,470	13	13	8,458	8,124
West Virginia	659	681	623	627	1,151	1,082	0	0	2,433	2,391
East South Central	8,030	7,543	7,274	7,202	8,535	8,240	0	0	23,839	22,985
Alabama	2,262	2,210	1,885	1,880	2,826	2,788	0	0	6,974	6,879
Kentucky	1,807	1,639	1,552	1,499	2,390	2,301	0	0	5,749	5,439
Mississippi	1,239	1,199	1,120	1,099	1,433	1,398	0	0	3,792	3,697
Tennessee	2,722	2,494	2,716	2,724	1,886	1,752	0	0	7,324	6,970
West South Central	15,323	14,431	16,181	15,372	15,105	14,080	16	15	46,625	43,898
Arkansas	1,104	1,041	939	924	1,397	1,300	0	0	3,440	3,264
Louisiana	2,145	2,012	1,982	1,952	2,910	2,707	1	1	7,037	6,672
Oklahoma	1,514	1,452	1,675	1,688	1,448	1,426	0	0	4,637	4,566
Texas	10,560	9,927	11,586	10,808	9,351	8,647	14	14	31,511	29,396
Mountain	7,263	6,765	7,912	7,669	6,936	6,941	12	11	22,122	21,386
Arizona	2,739	2,512	2,517	2,455	1,154	1,272	1	0	6,411	6,239
Colorado	1,369	1,351	1,641	1,625	1,291	1,253	6	5	4,307	4,234
Idaho	560	513	502	488	797	764	0	0	1,859	1,766
Montana	348	321	382	385	339	340	0	0	1,068	1,046
Nevada	972	831	913	822	1,087	1,121	1	1	2,973	2,775
New Mexico	459	450	736	722	624	625	0	0	1,820	1,798
Utah	622	602	925	889	800	771	5	4	2,352	2,267
Wyoming	194	185	296	282	842	793	0	0	1,332	1,260
Pacific Contiguous	10,313	9,576	13,250	12,740	6,821	7,026	69	62	30,453	29,404
California	6,369	5,975	9,549	9,107	3,854	4,038	66	59	19,838	19,180
Oregon	1,380	1,294	1,308	1,293	1,022	965	2	2	3,712	3,554
Washington	2,565	2,307	2,394	2,341	1,945	2,023	0	0	6,904	6,671
Pacific Noncontiguous	361	350	475	484	418	419	0	0	1,254	1,253
Alaska	145	144	214	216	113	110	0	0	472	471
Hawaii	216	206	261	267	305	309	0	0	782	782
U.S. Total	98,757	93,981	109,757	107,900	79,838	78,246	583	582	288,934	280,708

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	18,675	18,444	20,547	20,778	6,588	6,915	233	234	46,042	46,371
Connecticut	5,041	4,998	4,871	5,023	1,222	1,285	70	73	11,205	11,378
Maine	2,021	1,951	1,629	1,599	1,058	1,175	0	0	4,707	4,725
Massachusetts	7,728	7,638	10,061	10,113	2,667	2,757	151	150	20,606	20,658
New Hampshire	1,861	1,828	1,769	1,795	772	795	0	0	4,402	4,417
Rhode Island	1,166	1,166	1,418	1,440	297	313	12	12	2,893	2,931
Vermont	858	864	799	809	572	590	0	0	2,228	2,262
Middle Atlantic	50,418	50,758	61,751	62,247	28,880	28,858	1,619	1,570	142,667	143,433
New Jersey	9,950	10,115	14,958	15,079	2,900	2,805	127	128	27,935	28,127
New York	18,996	18,972	29,458	29,702	6,726	6,994	1,156	1,140	56,336	56,808
Pennsylvania	21,471	21,671	17,335	17,466	19,254	19,058	336	302	58,396	58,498
East North Central	69,464	71,794	72,453	73,025	74,332	76,001	234	243	216,483	221,063
Illinois	16,145	16,841	19,713	20,022	16,723	17,020	205	212	52,785	54,094
Indiana	12,093	12,747	9,337	9,437	16,559	17,557	8	9	37,997	39,749
Michigan	12,971	13,127	15,364	15,336	12,011	12,521	2	2	40,348	40,986
Ohio	19,576	20,441	18,569	18,746	19,391	19,338	19	21	57,555	58,545
Wisconsin	8,679	8,639	9,471	9,484	9,648	9,565	0	0	27,798	27,688
West North Central	40,450	39,822	40,172	40,309	34,823	33,833	20	19	115,465	113,984
Iowa	5,616	5,538	4,846	4,863	9,032	8,718	0	0	19,494	19,120
Kansas	4,573	4,614	5,909	5,921	4,357	4,310	0	0	14,840	14,846
Minnesota	9,012	8,764	9,224	9,315	8,396	7,948	10	10	26,643	26,037
Missouri	12,984	12,978	11,795	11,943	4,740	4,923	10	9	29,529	29,854
Nebraska	4,002	3,858	3,767	3,765	4,046	3,872	0	0	11,816	11,496
North Dakota	2,208	2,108	2,653	2,550	3,155	3,004	0	0	8,017	7,662
South Dakota	2,054	1,961	1,978	1,951	1,096	1,057	0	0	5,128	4,969
South Atlantic	129,938	135,043	120,512	120,932	56,005	56,218	529	566	306,984	312,760
Delaware	1,842	1,856	1,629	1,696	820	783	0	0	4,291	4,336
District of Columbia	907	902	3,143	3,385	69	77	130	140	4,248	4,504
Florida	43,412	43,635	36,898	36,232	6,719	6,689	38	39	87,067	86,596
Georgia	20,040	21,066	18,014	18,329	12,726	13,006	70	70	50,851	52,472
Maryland	10,293	10,977	11,304	11,621	1,505	1,509	219	238	23,321	24,345
North Carolina	20,996	22,339	18,371	18,625	10,959	10,780	1	3	50,327	51,746
South Carolina	10,663	11,403	8,262	8,447	10,975	10,903	0	0	29,900	30,753
Virginia	17,298	17,903	19,850	19,433	6,811	7,123	71	76	44,031	44,534
West Virginia	4,486	4,961	3,042	3,165	5,421	5,348	0	0	12,948	13,475
East South Central	42,939	45,284	34,530	34,931	40,337	39,647	0	0	117,806	119,862
Alabama	11,191	11,911	8,684	8,797	13,551	13,346	0	0	33,427	34,054
Kentucky	9,851	10,457	7,413	7,513	11,262	11,252	0	0	28,526	29,222
Mississippi	6,424	6,691	5,227	5,175	6,768	6,748	0	0	18,419	18,614
Tennessee	15,474	16,225	13,205	13,446	8,756	8,301	0	0	37,435	37,972
West South Central	73,610	74,804	73,198	72,673	72,246	69,898	76	75	219,131	217,450
Arkansas	6,453	6,618	4,490	4,496	6,669	6,341	0	0	17,612	17,455
Louisiana	10,479	10,744	9,363	9,329	13,978	13,657	5	5	33,825	33,735
Oklahoma	7,841	8,004	7,610	7,598	6,997	6,855	0	0	22,447	22,457
Texas	48,838	49,437	51,735	51,251	44,602	43,045	71	70	145,246	143,803
Mountain	35,591	34,613	37,381	36,691	32,214	32,943	58	55	105,244	104,302
Arizona	11,143	10,815	11,114	11,105	5,571	6,100	2	2	27,830	28,022
Colorado	7,205	7,238	8,047	8,031	6,135	6,093	28	27	21,414	21,389
Idaho	3,745	3,425	2,573	2,505	2,836	2,791	0	0	9,154	8,721
Montana	2,367	2,124	2,078	2,017	1,734	1,717	0	0	6,179	5,858
Nevada	4,085	3,897	4,105	3,615	4,983	5,463	3	3	13,177	12,977
New Mexico	2,449	2,534	3,436	3,408	2,940	2,983	0	0	8,825	8,924
Utah	3,333	3,340	4,471	4,480	3,827	3,709	25	23	11,655	11,552
Wyoming	1,265	1,239	1,557	1,531	4,188	4,088	0	0	7,009	6,859
Pacific Contiguous	59,823	56,344	64,065	63,288	32,372	33,398	348	330	156,608	153,360
California	33,343	32,637	44,720	44,656	17,935	18,908	336	318	96,334	96,519
Oregon	8,976	8,105	6,715	6,523	4,684	4,510	11	10	20,386	19,148
Washington	17,504	15,602	12,630	12,109	9,753	9,980	2	2	39,888	37,694
Pacific Noncontiguous	1,977	1,889	2,408	2,417	2,020	2,042	0	0	6,405	6,348
Alaska	941	872	1,182	1,163	574	563	0	0	2,696	2,597
Hawaii	1,036	1,017	1,226	1,254	1,447	1,480	0	0	3,709	3,750
U.S. Total	522,884	528,794	527,016	527,291	379,816	379,755	3,119	3,093	1,432,835	1,438,933

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	607	587	587	588	163	167	3	3	1,360	1,344
Connecticut	168	171	151	151	33	34	1	1	353	357
Maine	55	53	38	37	20	21	0	0	113	111
Massachusetts	264	247	288	288	72	73	1	1	625	608
New Hampshire	59	55	49	47	18	19	0	0	126	121
Rhode Island	36	37	39	41	8	9	0	0	83	87
Vermont	26	25	23	23	12	12	0	0	61	60
Middle Atlantic	1,406	1,375	1,503	1,479	402	398	33	30	3,345	3,282
New Jersey	305	303	389	385	60	59	2	2	757	749
New York	612	588	810	780	87	81	27	24	1,535	1,473
Pennsylvania	489	483	305	315	255	258	4	4	1,054	1,059
East North Central	1,683	1,672	1,528	1,464	1,087	1,071	3	3	4,301	4,210
Illinois	399	399	368	354	217	221	3	3	987	976
Indiana	263	244	201	183	259	241	0	0	722	669
Michigan	371	366	356	335	191	187	0	0	918	887
Ohio	419	438	391	386	268	271	0	0	1,078	1,096
Wisconsin	231	224	211	206	153	151	0	0	595	581
West North Central	888	794	807	774	521	483	0	0	2,217	2,052
Iowa	117	108	87	87	105	107	0	0	309	302
Kansas	124	118	132	128	71	67	0	0	327	313
Minnesota	201	190	197	186	134	115	0	0	532	491
Missouri	305	246	242	228	77	69	0	0	624	543
Nebraska	71	66	68	67	62	59	0	0	201	192
North Dakota	33	32	45	42	55	49	0	0	133	123
South Dakota	37	36	36	36	18	16	0	0	91	87
South Atlantic	3,144	2,902	2,428	2,355	761	735	8	9	6,341	6,001
Delaware	43	43	35	37	14	14	0	0	92	94
District of Columbia	21	17	76	78	1	1	3	3	100	100
Florida	1,190	1,056	785	724	111	108	1	1	2,087	1,889
Georgia	480	453	383	371	147	144	1	1	1,010	969
Maryland	247	247	253	263	27	26	4	4	530	540
North Carolina	454	421	328	327	150	139	0	0	932	887
South Carolina	286	258	189	177	137	134	0	0	613	569
Virginia	343	330	319	319	96	98	1	1	760	748
West Virginia	79	78	60	59	77	71	0	0	217	207
East South Central	918	826	762	711	501	456	0	0	2,181	1,993
Alabama	288	267	217	207	176	168	0	0	681	643
Kentucky	193	172	149	141	132	120	0	0	473	433
Mississippi	145	130	115	102	85	76	0	0	345	309
Tennessee	292	256	281	261	108	92	0	0	681	608
West South Central	1,670	1,552	1,350	1,195	842	708	1	1	3,863	3,457
Arkansas	116	106	80	76	82	73	0	0	278	255
Louisiana	212	187	178	164	154	129	0	0	544	481
Oklahoma	163	156	132	122	77	67	0	0	372	344
Texas	1,179	1,104	959	833	529	439	1	1	2,669	2,377
Mountain	883	810	787	749	447	422	1	1	2,118	1,982
Arizona	357	325	284	272	78	78	0	0	720	675
Colorado	163	158	161	155	92	86	1	0	417	399
Idaho	57	52	39	38	52	48	0	0	148	138
Montana	39	37	40	40	17	16	0	0	96	93
Nevada	118	100	72	66	56	54	0	0	246	221
New Mexico	59	51	75	67	38	36	0	0	172	154
Utah	67	66	85	83	52	48	1	0	205	197
Wyoming	23	21	30	27	61	56	0	0	113	105
Pacific Contiguous	1,563	1,420	1,744	1,638	622	616	5	5	3,934	3,679
California	1,165	1,060	1,426	1,331	470	471	5	5	3,066	2,866
Oregon	150	140	117	115	62	58	0	0	329	313
Washington	248	220	201	192	90	87	0	0	539	499
Pacific Noncontiguous	95	85	113	103	87	79	0	0	295	267
Alaska	32	30	44	40	19	18	0	0	95	88
Hawaii	63	55	69	63	68	61	0	0	200	179
U.S. Total	12,857	12,023	11,608	11,055	5,434	5,134	56	53	29,954	28,266

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	3,596	3,548	3,093	3,158	812	835	20	21	7,521	7,562
Connecticut	1,008	1,037	775	796	161	169	8	8	1,951	2,011
Maine	324	302	201	195	100	105	0	0	624	602
Massachusetts	1,544	1,507	1,527	1,567	356	360	10	10	3,437	3,443
New Hampshire	353	336	259	262	95	99	0	0	707	697
Rhode Island	218	219	216	222	42	43	2	2	478	485
Vermont	150	148	116	117	58	59	0	0	324	324
Middle Atlantic	7,945	7,851	7,522	7,512	2,000	2,019	176	169	17,644	17,551
New Jersey	1,573	1,567	1,834	1,820	288	279	11	11	3,707	3,678
New York	3,322	3,229	4,109	4,037	390	410	140	134	7,962	7,810
Pennsylvania	3,050	3,055	1,579	1,654	1,322	1,330	24	24	5,975	6,063
East North Central	9,137	9,201	7,326	7,109	5,216	5,154	16	17	21,695	21,481
Illinois	2,053	2,074	1,762	1,730	1,078	1,073	13	14	4,905	4,891
Indiana	1,440	1,409	960	899	1,226	1,186	1	1	3,628	3,495
Michigan	2,002	1,953	1,705	1,604	885	856	0	0	4,593	4,414
Ohio	2,381	2,535	1,856	1,846	1,288	1,316	1	2	5,526	5,699
Wisconsin	1,261	1,231	1,042	1,029	739	723	0	0	3,042	2,983
West North Central	4,598	4,401	3,762	3,651	2,420	2,260	2	2	10,782	10,313
Iowa	654	628	428	420	490	468	0	0	1,571	1,516
Kansas	596	593	607	607	328	320	0	0	1,530	1,520
Minnesota	1,147	1,082	951	897	637	561	1	1	2,735	2,541
Missouri	1,351	1,293	1,025	997	311	304	1	1	2,688	2,595
Nebraska	408	388	327	322	300	289	0	0	1,036	999
North Dakota	215	204	239	228	271	239	0	0	725	670
South Dakota	227	214	185	180	84	78	0	0	496	472
South Atlantic	15,315	15,535	11,369	11,257	3,545	3,464	42	44	30,270	30,300
Delaware	251	251	168	176	65	64	0	0	484	491
District of Columbia	117	119	374	401	6	7	12	13	509	540
Florida	5,045	4,885	3,524	3,344	529	512	3	3	9,100	8,745
Georgia	2,295	2,294	1,795	1,743	710	675	3	3	4,803	4,716
Maryland	1,473	1,563	1,254	1,279	129	121	17	19	2,873	2,982
North Carolina	2,315	2,475	1,560	1,596	647	636	0	0	4,523	4,708
South Carolina	1,357	1,398	855	836	648	620	0	0	2,860	2,854
Virginia	1,942	2,008	1,542	1,585	444	480	6	6	3,933	4,079
West Virginia	520	542	297	297	366	348	0	0	1,184	1,187
East South Central	4,814	4,775	3,628	3,463	2,377	2,177	0	0	10,819	10,415
Alabama	1,414	1,399	1,009	963	820	755	0	0	3,244	3,116
Kentucky	1,037	1,048	713	699	629	591	0	0	2,379	2,338
Mississippi	725	714	542	500	410	378	0	0	1,677	1,592
Tennessee	1,637	1,614	1,364	1,301	518	453	0	0	3,520	3,368
West South Central	7,874	7,857	6,086	5,649	3,866	3,499	6	4	17,832	17,009
Arkansas	637	627	371	359	375	349	0	0	1,383	1,335
Louisiana	956	952	820	796	712	668	1	0	2,488	2,417
Oklahoma	823	783	596	526	364	309	0	0	1,783	1,618
Texas	5,458	5,494	4,298	3,968	2,415	2,173	6	4	12,177	11,640
Mountain	4,112	3,919	3,503	3,384	1,979	1,944	6	5	9,600	9,253
Arizona	1,348	1,285	1,132	1,121	339	340	0	0	2,819	2,747
Colorado	851	827	766	731	436	412	3	2	2,057	1,972
Idaho	363	334	198	191	172	169	0	0	732	694
Montana	255	228	210	203	84	82	0	0	550	512
Nevada	490	465	324	298	252	270	0	0	1,066	1,033
New Mexico	308	288	342	317	177	167	0	0	827	772
Utah	358	357	381	381	225	222	3	2	966	963
Wyoming	139	134	150	143	294	283	0	0	583	560
Pacific Contiguous	8,523	7,754	8,087	7,818	2,698	2,740	28	28	19,337	18,340
California	5,938	5,467	6,429	6,230	1,968	2,031	27	27	14,362	13,755
Oregon	948	844	595	576	283	267	1	1	1,827	1,688
Washington	1,637	1,442	1,063	1,013	447	441	0	0	3,147	2,896
Pacific Noncontiguous	502	449	555	507	422	379	0	0	1,478	1,335
Alaska	199	175	231	208	97	85	0	0	527	468
Hawaii	302	274	324	299	325	294	0	0	952	868
U.S. Total	66,416	65,289	54,932	53,509	25,335	24,472	295	290	146,977	143,560

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	19.50	19.19	14.94	14.82	12.12	11.84	7.62	8.01	16.14	15.87
Connecticut	20.94	21.63	16.16	15.86	13.27	13.11	9.72	11.43	17.68	17.75
Maine	16.18	15.84	12.09	12.15	9.19	8.79	--	--	12.96	12.63
Massachusetts	20.03	19.06	15.01	14.85	13.09	12.70	5.55	5.51	16.40	15.89
New Hampshire	19.61	18.54	14.78	14.43	11.95	12.12	--	--	16.07	15.52
Rhode Island	16.95	18.02	13.87	14.37	14.09	13.65	19.56	18.95	15.09	15.65
Vermont	18.04	17.79	14.83	14.82	9.92	9.77	--	--	14.55	14.36
Middle Atlantic	16.50	15.91	12.62	12.12	6.92	6.92	11.46	10.52	12.61	12.21
New Jersey	16.22	15.40	12.97	12.42	10.19	10.05	9.16	8.40	13.77	13.19
New York	18.50	17.73	14.54	13.59	6.23	5.75	12.85	11.47	14.65	13.80
Pennsylvania	14.67	14.42	9.11	9.34	6.67	6.86	7.45	7.48	9.97	10.07
East North Central	13.75	13.57	10.35	9.94	7.06	6.90	6.80	7.00	10.14	9.88
Illinois	13.71	13.29	9.23	9.02	6.48	6.33	6.42	6.79	9.59	9.34
Indiana	12.30	11.81	10.30	9.57	7.42	6.98	12.31	9.27	9.54	8.99
Michigan	15.85	15.33	11.54	10.71	7.47	7.01	12.08	11.33	11.50	10.85
Ohio	12.51	13.01	10.05	9.91	6.67	6.87	7.91	7.76	9.57	9.77
Wisconsin	15.35	14.98	11.45	11.07	7.73	7.71	14.67	15.00	11.18	10.94
West North Central	12.52	12.46	10.03	9.61	7.08	6.92	8.12	8.15	9.85	9.58
Iowa	13.11	13.01	9.39	9.44	5.46	5.71	--	--	8.26	8.32
Kansas	13.77	13.79	10.57	10.44	7.77	7.43	--	--	10.67	10.49
Minnesota	13.36	13.04	10.71	9.95	7.68	7.17	8.35	8.69	10.46	9.96
Missouri	11.85	11.93	10.01	9.35	7.23	6.96	7.87	7.56	10.30	9.88
Nebraska	11.25	11.05	8.97	8.79	7.24	7.36	--	--	8.96	8.89
North Dakota	11.40	11.07	9.37	9.13	8.62	8.43	--	--	9.44	9.24
South Dakota	12.25	12.11	9.69	9.55	7.75	7.53	--	--	10.06	9.93
South Atlantic	11.87	11.64	9.33	9.24	6.28	6.19	7.98	7.86	9.80	9.62
Delaware	14.77	14.54	10.48	10.63	7.83	7.98	--	--	11.45	11.45
District of Columbia	13.55	13.72	11.55	11.66	8.31	8.93	9.34	8.97	11.78	11.82
Florida	11.38	10.86	9.29	8.91	7.71	7.48	8.24	8.15	10.25	9.79
Georgia	11.70	11.51	9.79	9.64	5.59	5.29	5.00	4.62	9.48	9.21
Maryland	14.53	14.70	10.96	11.16	8.44	8.11	8.03	7.90	12.14	12.24
North Carolina	11.27	11.41	8.64	8.56	5.72	6.03	8.51	8.04	8.92	9.04
South Carolina	12.99	12.54	10.21	9.85	5.98	5.73	--	--	9.64	9.19
Virginia	11.88	12.03	7.81	8.19	6.57	6.63	7.98	8.01	8.99	9.21
West Virginia	12.02	11.41	9.68	9.35	6.72	6.55	--	--	8.91	8.67
East South Central	11.43	10.95	10.47	9.87	5.87	5.54	--	--	9.15	8.67
Alabama	12.73	12.10	11.50	11.02	6.24	6.03	--	--	9.77	9.34
Kentucky	10.66	10.51	9.60	9.40	5.51	5.20	--	--	8.23	7.95
Mississippi	11.68	10.88	10.29	9.31	5.93	5.46	--	--	9.10	8.36
Tennessee	10.74	10.25	10.33	9.56	5.74	5.26	--	--	9.30	8.73
West South Central	10.90	10.76	8.34	7.78	5.58	5.03	8.35	5.68	8.29	7.87
Arkansas	10.49	10.19	8.56	8.20	5.85	5.62	11.93	8.70	8.08	7.81
Louisiana	9.88	9.28	8.98	8.43	5.29	4.78	10.01	9.57	7.73	7.20
Oklahoma	10.74	10.73	7.88	7.21	5.34	4.67	--	--	8.02	7.54
Texas	11.17	11.12	8.28	7.71	5.66	5.08	8.22	5.41	8.47	8.09
Mountain	12.16	11.98	9.94	9.76	6.44	6.08	9.77	9.59	9.57	9.27
Arizona	13.04	12.94	11.30	11.07	6.80	6.11	9.72	9.89	11.23	10.81
Colorado	11.91	11.67	9.83	9.55	7.15	6.83	9.72	9.55	9.69	9.42
Idaho	10.17	10.14	7.78	7.75	6.57	6.33	--	--	7.98	7.83
Montana	11.29	11.42	10.46	10.44	5.00	4.79	--	--	9.00	8.90
Nevada	12.15	12.09	7.85	8.05	5.18	4.84	7.98	7.36	8.28	7.96
New Mexico	12.83	11.35	10.25	9.26	6.04	5.80	--	--	9.46	8.58
Utah	10.82	11.01	9.21	9.33	6.51	6.18	10.07	9.95	8.72	8.70
Wyoming	11.69	11.50	10.02	9.74	7.20	7.04	--	--	8.48	8.30
Pacific Contiguous	15.16	14.83	13.16	12.86	9.11	8.76	7.53	8.16	12.92	12.51
California	18.29	17.74	14.93	14.61	12.20	11.66	7.46	8.12	15.46	14.94
Oregon	10.86	10.80	8.97	8.92	6.05	6.03	9.47	9.34	8.87	8.82
Washington	9.68	9.54	8.38	8.22	4.61	4.28	8.45	8.61	7.80	7.48
Pacific Noncontiguous	26.24	24.41	23.79	21.26	20.87	18.81	--	--	23.52	21.32
Alaska	22.04	20.90	20.64	18.38	16.77	16.10	--	--	20.14	18.62
Hawaii	29.07	26.88	26.36	23.59	22.39	19.78	--	--	25.56	22.95
U.S. Total	13.02	12.79	10.58	10.25	6.81	6.56	9.58	9.13	10.37	10.07

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD	May 2017 YTD	May 2016 YTD
New England	19.25	19.23	15.05	15.20	12.33	12.08	8.59	8.82	16.33	16.31
Connecticut	19.99	20.75	15.90	15.84	13.20	13.19	10.70	11.61	17.41	17.67
Maine	16.02	15.46	12.35	12.23	9.41	8.95	--	--	13.26	12.75
Massachusetts	19.98	19.72	15.18	15.49	13.35	13.05	6.75	6.72	16.68	16.67
New Hampshire	18.95	18.39	14.62	14.57	12.33	12.46	--	--	16.05	15.77
Rhode Island	18.69	18.73	15.20	15.40	14.24	13.70	19.30	18.37	16.52	16.56
Vermont	17.50	17.12	14.55	14.45	10.08	10.00	--	--	14.54	14.31
Middle Atlantic	15.76	15.47	12.18	12.07	6.93	7.00	10.88	10.75	12.37	12.24
New Jersey	15.81	15.50	12.26	12.07	9.94	9.96	8.98	8.63	13.27	13.08
New York	17.49	17.02	13.95	13.59	5.80	5.86	12.13	11.74	14.13	13.75
Pennsylvania	14.21	14.09	9.11	9.47	6.87	6.98	7.28	7.91	10.23	10.36
East North Central	13.15	12.82	10.11	9.73	7.02	6.78	6.63	6.99	10.02	9.72
Illinois	12.71	12.32	8.94	8.64	6.44	6.30	6.27	6.78	9.29	9.04
Indiana	11.91	11.05	10.28	9.53	7.41	6.75	11.65	9.64	9.55	8.79
Michigan	15.44	14.87	11.10	10.46	7.37	6.84	12.19	11.39	11.38	10.77
Ohio	12.16	12.40	10.00	9.85	6.64	6.81	7.62	7.54	9.60	9.73
Wisconsin	14.54	14.25	11.00	10.85	7.66	7.56	14.35	14.64	10.94	10.77
West North Central	11.37	11.05	9.37	9.06	6.95	6.68	8.09	8.41	9.34	9.05
Iowa	11.64	11.34	8.83	8.64	5.42	5.37	--	--	8.06	7.93
Kansas	13.02	12.85	10.28	10.25	7.52	7.43	--	--	10.31	10.24
Minnesota	12.72	12.34	10.31	9.63	7.58	7.06	9.17	9.88	10.27	9.76
Missouri	10.41	9.96	8.69	8.35	6.56	6.18	6.97	6.78	9.10	8.69
Nebraska	10.21	10.05	8.69	8.55	7.41	7.47	--	--	8.77	8.69
North Dakota	9.74	9.66	9.00	8.93	8.59	7.95	--	--	9.04	8.74
South Dakota	11.06	10.91	9.36	9.21	7.68	7.43	--	--	9.68	9.50
South Atlantic	11.79	11.50	9.43	9.31	6.33	6.16	7.91	7.83	9.86	9.69
Delaware	13.61	13.50	10.34	10.40	7.94	8.12	--	--	11.28	11.32
District of Columbia	12.93	13.18	11.90	11.84	8.41	9.13	9.50	9.30	11.99	11.98
Florida	11.62	11.20	9.55	9.23	7.87	7.66	8.45	8.45	10.45	10.10
Georgia	11.45	10.89	9.96	9.51	5.58	5.19	4.96	4.46	9.45	8.99
Maryland	14.31	14.24	11.09	11.01	8.59	8.02	7.84	7.83	12.32	12.25
North Carolina	11.03	11.08	8.49	8.57	5.91	5.90	8.84	7.94	8.99	9.10
South Carolina	12.73	12.26	10.35	9.90	5.91	5.69	--	--	9.56	9.28
Virginia	11.23	11.22	7.77	8.16	6.52	6.74	7.84	7.89	8.93	9.16
West Virginia	11.60	10.93	9.76	9.37	6.76	6.51	--	--	9.14	8.81
East South Central	11.21	10.54	10.51	9.91	5.89	5.49	--	--	9.18	8.69
Alabama	12.64	11.74	11.62	10.95	6.05	5.65	--	--	9.70	9.15
Kentucky	10.52	10.02	9.62	9.31	5.58	5.25	--	--	8.34	8.00
Mississippi	11.29	10.66	10.36	9.67	6.06	5.61	--	--	9.11	8.55
Tennessee	10.58	9.95	10.33	9.67	5.92	5.46	--	--	9.40	8.87
West South Central	10.70	10.50	8.31	7.77	5.35	5.01	7.92	5.65	8.14	7.82
Arkansas	9.87	9.48	8.27	7.99	5.63	5.50	11.57	8.84	7.85	7.65
Louisiana	9.12	8.86	8.76	8.53	5.09	4.89	10.02	8.95	7.36	7.16
Oklahoma	10.50	9.78	7.83	6.92	5.20	4.51	--	--	7.94	7.20
Texas	11.18	11.11	8.31	7.74	5.41	5.05	7.76	5.41	8.38	8.09
Mountain	11.55	11.32	9.37	9.22	6.14	5.90	9.79	9.42	9.12	8.87
Arizona	12.09	11.89	10.19	10.10	6.09	5.57	8.43	8.54	10.13	9.80
Colorado	11.82	11.43	9.52	9.10	7.11	6.76	9.92	9.22	9.60	9.22
Idaho	9.68	9.76	7.70	7.62	6.05	6.04	--	--	8.00	7.96
Montana	10.79	10.73	10.10	10.05	4.86	4.76	--	--	8.89	8.74
Nevada	12.00	11.94	7.88	8.23	5.06	4.95	7.87	7.61	8.09	7.96
New Mexico	12.57	11.37	9.95	9.31	6.04	5.59	--	--	9.37	8.65
Utah	10.74	10.69	8.52	8.51	5.87	5.99	10.02	10.01	8.29	8.34
Wyoming	11.00	10.81	9.65	9.32	7.01	6.92	--	--	8.32	8.16
Pacific Contiguous	14.25	13.76	12.62	12.35	8.33	8.20	8.04	8.57	12.35	11.96
California	17.81	16.75	14.38	13.95	10.97	10.74	7.99	8.54	14.91	14.25
Oregon	10.56	10.42	8.87	8.83	6.04	5.93	9.29	9.24	8.96	8.82
Washington	9.35	9.24	8.42	8.36	4.58	4.42	9.27	9.47	7.89	7.68
Pacific Noncontiguous	25.38	23.80	23.05	20.99	20.88	18.55	--	--	23.08	21.04
Alaska	21.17	20.10	19.54	17.90	16.85	15.04	--	--	19.54	18.02
Hawaii	29.20	26.97	26.43	23.86	22.47	19.88	--	--	25.66	23.13
U.S. Total	12.70	12.35	10.42	10.15	6.67	6.44	9.45	9.38	10.26	9.98

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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 5.7. Number of Ultimate Customers Served by Sector: 2008 - May 2017

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,092,578	18,139,923	811,825	83	150,044,409
Year 2015					
January	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
Year 2016					
January	130,338,099	17,991,439	804,007	77	149,133,622
February	130,108,685	18,008,942	799,795	80	148,917,502
March	131,347,329	18,177,656	810,362	86	150,335,433
April	130,487,840	18,048,726	797,985	83	149,334,634
May	131,044,577	18,110,084	813,813	86	149,968,560
June	131,330,842	18,162,550	827,304	86	150,320,782
July	131,138,573	18,138,230	821,488	82	150,098,373
August	131,372,255	18,209,116	832,566	82	150,414,019
Sept	131,392,256	18,200,641	820,906	82	150,413,885
October	131,335,623	18,202,781	813,555	83	150,352,042
November	131,340,409	18,176,864	799,953	83	150,317,309
December	131,874,453	18,252,051	800,163	83	150,926,750
Year 2017					
January	131,833,179	18,232,721	804,348	83	150,870,331
February	131,335,983	18,145,698	793,112	85	150,274,878
March	132,712,308	18,331,082	812,438	83	151,855,911
April	131,803,304	18,178,402	797,849	84	150,779,639
May	133,114,778	18,342,112	824,384	84	152,281,358
Rolling 12 Months Ending in May					
2016	130,336,432	18,064,832	829,458	80	149,230,802
2017	131,715,330	18,214,354	812,339	83	150,742,106

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: May 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	6,370,895	6,326,681	887,814	878,864	26,893	26,090	6	6	7,285,608	7,231,641
Connecticut	1,498,699	1,487,827	153,206	152,236	4,438	4,433	3	3	1,656,346	1,644,499
Maine	715,809	711,295	100,180	99,084	3,145	3,082	0	0	819,134	813,461
Massachusetts	2,779,115	2,769,146	411,158	406,950	14,031	13,287	2	2	3,204,306	3,189,385
New Hampshire	619,227	613,214	107,661	107,240	3,268	3,253	0	0	730,156	723,707
Rhode Island	440,994	432,354	59,400	58,507	1,787	1,820	1	1	502,182	492,682
Vermont	317,051	312,845	56,209	54,847	224	215	0	0	373,484	367,907
Middle Atlantic	16,070,528	15,940,177	2,299,589	2,279,731	42,178	42,762	20	23	18,412,315	18,262,693
New Jersey	3,544,049	3,503,776	516,506	513,221	11,702	11,930	6	6	4,072,263	4,028,933
New York	7,152,715	7,103,986	1,085,526	1,071,094	7,591	7,587	8	11	8,245,840	8,182,678
Pennsylvania	5,373,764	5,332,415	697,557	695,416	22,885	23,245	6	6	6,094,212	6,051,082
East North Central	20,245,514	19,965,481	2,492,984	2,466,035	53,007	52,150	9	8	22,791,514	22,483,674
Illinois	5,309,146	5,236,069	610,795	604,945	5,746	5,464	3	3	5,925,690	5,846,481
Indiana	2,873,755	2,809,539	350,215	347,275	17,740	17,452	1	1	3,241,711	3,174,267
Michigan	4,368,949	4,326,144	550,758	542,033	NM	NM	2	1	4,925,525	4,873,925
Ohio	5,001,272	4,923,149	626,877	621,453	18,873	18,751	2	2	5,647,024	5,563,355
Wisconsin	2,692,392	2,670,580	354,339	350,329	NM	NM	1	1	3,051,564	3,025,646
West North Central	9,758,611	9,356,205	1,458,532	1,434,134	116,923	114,049	3	3	11,334,069	10,904,391
Iowa	1,381,996	1,365,383	243,409	239,983	NM	NM	0	0	1,632,331	1,612,186
Kansas	1,270,684	1,258,984	234,431	231,905	25,972	26,139	0	0	1,531,087	1,517,028
Minnesota	2,387,333	2,359,344	288,915	284,974	NM	NM	1	1	2,684,503	2,652,418
Missouri	3,089,780	2,762,449	383,409	374,862	9,377	8,359	2	2	3,482,568	3,145,672
Nebraska	853,107	842,164	162,114	158,486	55,378	53,730	0	0	1,070,599	1,054,380
North Dakota	377,082	374,275	73,256	72,057	7,942	7,879	0	0	458,280	454,211
South Dakota	398,629	393,606	72,998	71,867	NM	NM	0	0	474,701	468,496
South Atlantic	27,580,815	27,253,696	3,775,464	3,729,618	80,369	80,099	13	13	31,436,661	31,063,426
Delaware	424,637	417,275	53,751	52,938	1,192	1,125	0	0	479,580	471,338
District of Columbia	266,246	258,548	26,076	25,950	1	1	3	3	292,326	284,502
Florida	9,239,961	9,164,539	1,225,034	1,213,940	20,896	20,750	2	2	10,485,893	10,399,231
Georgia	4,321,361	4,256,512	579,895	572,250	19,741	19,413	1	1	4,920,998	4,848,176
Maryland	2,316,937	2,290,276	252,567	250,941	8,867	8,726	5	5	2,578,376	2,549,948
North Carolina	4,491,333	4,424,311	701,416	682,703	9,985	10,043	1	1	5,202,735	5,117,058
South Carolina	2,258,442	2,219,493	363,618	357,698	4,309	4,490	0	0	2,626,369	2,581,681
Virginia	3,402,932	3,357,852	429,276	430,318	3,799	3,801	1	1	3,836,008	3,791,972
West Virginia	858,966	864,890	143,831	142,880	11,579	11,750	0	0	1,014,376	1,019,520
East South Central	8,491,025	8,301,625	1,389,440	1,373,949	25,014	25,045	0	0	9,905,479	9,700,619
Alabama	2,238,871	2,217,273	369,352	365,581	8,227	8,170	0	0	2,616,450	2,591,024
Kentucky	2,029,782	1,967,665	300,051	297,177	7,716	7,737	0	0	2,337,549	2,272,579
Mississippi	1,307,860	1,294,211	238,704	235,112	7,665	7,750	0	0	1,554,229	1,537,073
Tennessee	2,914,512	2,822,476	481,333	476,079	1,406	1,388	0	0	3,397,251	3,299,943
West South Central	15,897,058	15,582,905	2,210,392	2,177,520	182,773	180,531	6	6	18,290,229	17,940,962
Arkansas	1,383,165	1,369,024	191,358	188,753	31,520	32,274	2	2	1,606,045	1,590,053
Louisiana	2,085,843	2,061,909	292,388	289,875	18,787	18,690	1	1	2,397,019	2,370,475
Oklahoma	1,765,946	1,749,005	283,779	280,213	18,036	18,121	0	0	2,067,761	2,047,339
Texas	10,662,104	10,402,967	1,442,867	1,418,679	114,430	111,446	3	3	12,219,404	11,933,095
Mountain	9,646,746	9,490,154	1,379,735	1,362,999	89,067	88,369	4	4	11,115,552	10,941,526
Arizona	2,752,465	2,701,493	319,697	315,548	6,967	6,729	1	1	3,079,130	3,023,771
Colorado	2,284,702	2,251,761	360,449	356,060	14,663	14,609	1	1	2,659,815	2,622,431
Idaho	723,955	711,228	108,497	107,014	28,418	28,147	0	0	860,870	846,389
Montana	504,821	498,272	108,557	106,907	NM	NM	0	0	620,965	612,893
Nevada	1,161,466	1,140,118	163,121	161,035	NM	NM	1	1	1,328,074	1,304,586
New Mexico	896,160	887,426	138,418	137,826	8,663	8,556	0	0	1,043,241	1,033,808
Utah	1,050,944	1,029,560	122,445	120,293	9,524	9,525	1	1	1,182,914	1,159,379
Wyoming	272,233	270,296	58,551	58,316	9,759	9,657	0	0	340,543	338,269
Pacific Contiguous	18,334,642	18,114,161	2,333,383	2,292,912	205,987	202,566	23	23	20,874,035	20,609,662
California	13,572,746	13,434,642	1,701,862	1,680,615	150,690	147,950	15	15	15,425,313	15,263,222
Oregon	1,736,819	1,713,590	238,793	234,558	26,357	26,163	2	2	2,001,971	1,974,313
Washington	3,025,077	2,965,929	392,728	377,739	28,940	28,453	6	6	3,446,751	3,372,127
Pacific Noncontiguous	718,944	713,492	114,779	114,322	NM	NM	0	0	835,896	829,966
Alaska	286,583	283,588	53,453	52,888	NM	NM	0	0	341,426	337,832
Hawaii	432,361	429,904	61,326	61,434	783	796	0	0	494,470	492,134
U.S. Total	133,114,778	131,044,577	18,342,112	18,110,084	824,384	813,813	84	86	152,281,358	149,968,560

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), April 2017 to May 2017

		As of End of April 2017	Activity During May 2017 as Reported to EIA		As of End of May 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*	*83,114.8*	*183.8*	*63.9*	*83,234.7*	*119.9*	*1,952.5*	*9,368.0*	*178.2*	*6,680.9*	*31.6*	*31.6*	*146.6*	*6,649.3*	*83,381.3*	*89,884.0*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	83,144.1	183.8	63.9	83,264.0	119.9	1,952.5	9,397.3	178.2	6,680.9	31.6	31.6	146.6	6,649.3	83,410.6	89,913.3
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*21,350.7*	*424.9*	*28.5*	*21,747.1*	*396.4*	*1,976.8*	*8,515.4*	*422.9*	*4,650.7*	*0.0*	*0.0*	*422.9*	*4,650.7*	*22,170.0*	*26,397.8*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.4*	*0.0*	*0.0*	*405.4*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	23,108.6	424.9	28.5	23,505.0	396.4	1,976.8	8,515.4	422.9	4,650.7	0.0	0.0	422.9	4,650.7	23,927.9	28,155.7
..... Conventional Hydroelectric	Utility Scale Facilities	79,961.6	13.3	15.3	79,959.6	-2.0	-25.8	83.6	59.6	312.2	0.0	109.2	59.6	203.0	80,019.2	80,162.6
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*9,050.8*	*30.8*	*28.2*	*9,053.4*	*2.6*	*110.1*	*99.1*	*56.3*	*56.3*	*0.0*	*0.0*	*56.3*	*56.3*	*9,109.7*	*9,109.7*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,093.5*	*4.0*	*4.2*	*2,093.3*	*-0.2*	*-23.2*	*-27.3*	*5.4*	*10.2*	*0.0*	*2.3*	*5.4*	*7.9*	*2,098.7*	*2,101.2*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,251.2*	*2.6*	*7.0*	*2,246.8*	*-4.4*	*-0.3*	*-0.3*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*-12.0*	*2,246.8*	*2,234.8*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*790.4*	*0.0*	*3.4*	*787.0*	*-3.4*	*16.0*	*-23.7*	*13.2*	*71.4*	*0.0*	*0.0*	*13.2*	*71.4*	*800.2*	*858.4*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,185.9	37.4	42.8	14,180.5	-5.4	102.6	47.8	74.9	137.9	0.0	14.3	74.9	123.6	14,255.4	14,304.1
..... Geothermal	Utility Scale Facilities	2,453.5	0.0	0.5	2,453.0	-0.5	-58.5	-88.5	0.0	37.0	0.0	0.0	0.0	37.0	2,453.0	2,490.0
... Renewable Sources Subtotal	***Utility Scale Facilities***	***202,853.7***	***659.4***	***151.0***	***203,362.1***	***508.4***	***3,947.6***	***17,955.6***	***735.6***	***11,818.7***	***31.6***	***155.1***	***704.0***	***11,663.6***	***204,066.1***	***215,025.7***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*242,494.7*	*1,164.9*	*1,614.6*	*242,045.0*	*-449.7*	*2,525.8*	*5,038.1*	*3,567.0*	*15,113.2*	*0.0*	*0.0*	*3,567.0*	*15,113.2*	*245,612.0*	*257,158.2*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,980.9*	*978.7*	*201.7*	*127,757.9*	*777.0*	*1,010.8*	*3,628.4*	*744.8*	*2,269.2*	*0.0*	*178.2*	*744.8*	*2,091.0*	*128,502.7*	*129,848.9*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,677.0*	*688.1*	*1,105.7*	*77,259.4*	*-417.6*	*833.2*	*-1,611.8*	*0.0*	*0.0*	*700.8*	*2,541.7*	*-700.8*	*-2,541.7*	*76,558.6*	*74,717.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,284.3*	*40.6*	*58.6*	*4,266.3*	*-18.0*	*227.5*	*525.6*	*0.0*	*153.6*	*0.9*	*0.9*	*-0.9*	*152.7*	*4,265.4*	*4,419.0*
..... *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*	*124.4*	*0.0*	*5.4*	*119.0*	*-5.4*	*2.7*	*11.9*	*0.0*	*29.2*	*0.0*	*0.0*	*0.0*	*29.2*	*119.0*	*148.2*
..... Natural Gas Subtotal	Utility Scale Facilities	451,671.3	2,872.3	2,986.0	451,557.6	-113.7	4,600.0	7,592.2	4,311.8	17,565.2	701.7	2,720.8	3,610.1	14,844.4	455,167.7	466,402.0
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*264,499.7*	*63.3*	*1,164.8*	*263,398.2*	*-1,101.5*	*-5,847.7*	*-8,253.6*	*0.0*	*0.0*	*1,670.0*	*6,049.0*	*-1,670.0*	*-6,049.0*	*261,728.2*	*257,349.2*
..... *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	265,314.7	63.3	1,164.8	264,213.2	-1,101.5	-5,847.7	-8,253.6	0.0	0.0	1,670.0	6,049.0	-1,670.0	-6,049.0	262,543.2	258,164.2
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	3.6	1,536.7	-3.6	-3.6	-3.6	0.0	0.0	0.0	0.0	0.0	0.0	1,536.7	1,536.7
..... Petroleum Liquids	Utility Scale Facilities	34,406.7	23.4	634.9	33,795.2	-611.5	-1,062.4	-1,130.7	2.0	17.9	533.7	593.1	-531.7	-575.2	33,263.5	33,220.0
..... Other Gases	Utility Scale Facilities	2,456.7	2.0	3.2	2,455.5	-1.2	-41.7	-44.9	0.0	0.0	0.0	0.0	0.0	0.0	2,455.5	2,455.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***755,389.7***	***2,961.0***	***4,792.5***	***753,558.2***	***-1,831.5***	***-2,355.4***	***-1,840.6***	***4,313.8***	***17,583.1***	***2,905.4***	***9,362.9***	***1,408.4***	***8,220.2***	***754,966.6***	***761,778.4***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,757.1	57.0	0.0	22,814.1	57.0	144.0	144.0	0.0	57.0	0.0	0.0	0.0	57.0	22,814.1	22,871.1
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	625.6	24.0	0.0	649.6	24.0	109.9	249.9	35.2	89.9	0.0	0.0	35.2	89.9	684.8	739.5
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,424.7***	***81.0***	***0.0***	***23,505.7***	***81.0***	***251.9***	***391.9***	***35.2***	***146.9***	***0.0***	***0.0***	***35.2***	***146.9***	***23,540.9***	***23,652.6***
... Nuclear	***Utility Scale Facilities***	***99,467.2***	***17.0***	***29.4***	***99,454.8***	***-12.4***	***138.9***	***782.8***	***0.0***	***42.0***	***0.0***	***0.0***	***0.0***	***42.0***	***99,454.8***	***99,496.8***
... All Other	***Utility Scale Facilities***	***1,379.2***	***0.0***	***0.0***	***1,379.2***	***0.0***	***-105.6***	***-90.6***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,379.2***	***1,434.0***
TOTAL	**UTILITY SCALE FACILITIES**	**1,082,514.5**	**3,718.4**	**4,972.9**	**1,081,260.0**	**-1,254.5**	**1,877.4**	**17,199.1**	**5,084.6**	**29,645.5**	**2,937.0**	**9,518.0**	**2,147.6**	**20,127.5**	**1,083,407.6**	**1,101,387.5**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*14,282.4*			*14,509.8*	*227.4*	*1,326.6*	*3,198.2*								
..... Estimated Total Solar Photovoltaic	All Facilities	35,633.1			36,256.9	623.8	3,303.4	11,713.6								
... Estimated Total Solar	***All Facilities***	***37,391.0***			***38,014.8***	***623.8***	***3,303.4***	***11,713.6***								

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

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

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

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	19,770.3	13,183.2	32,953.5
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
Year 2016			
January	12,272.1	10,226.8	22,498.9
February	12,401.5	10,486.5	22,888.0
March	12,583.1	10,809.5	23,392.6
April	13,123.6	11,069.8	24,193.4
May	13,231.7	11,311.7	24,543.4
June	13,420.2	11,568.8	24,989.0
July	14,145.5	11,781.0	25,926.5
August	15,077.2	12,063.5	27,140.7
Sept	15,844.7	12,305.5	28,150.2
October	16,408.2	12,567.0	28,975.2
November	16,950.8	12,855.4	29,806.2
December	19,770.3	13,183.2	32,953.5
Year 2017			
January	20,135.6	13,348.4	33,484.0
February	20,327.7	13,807.7	34,135.4
March	20,765.0	14,107.5	34,872.5
April	21,350.7	14,282.4	35,633.1
May	21,747.1	14,509.8	36,256.9

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 - May 2017

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,421.2	4,680.8	1,081.2	13,183.2
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,352.9	3,991.9	882.0	10,226.8
February	5,550.7	4,033.4	902.4	10,486.5
March	5,775.1	4,104.2	930.3	10,809.5
April	5,972.7	4,149.0	948.1	11,069.8
May	6,159.1	4,188.8	963.7	11,311.7
June	6,352.0	4,239.0	977.7	11,568.8
July	6,512.3	4,271.8	996.9	11,781.0
August	6,704.7	4,343.1	1,015.8	12,063.5
Sept	6,873.9	4,404.9	1,026.7	12,305.5
October	7,060.2	4,469.8	1,037.0	12,567.0
November	7,241.6	4,565.7	1,048.1	12,855.4
December	7,421.2	4,680.8	1,081.2	13,183.2
Year 2017				
January	7,548.4	4,710.9	1,089.1	13,348.4
February	7,890.4	4,704.1	1,213.2	13,807.7
March	8,070.1	4,726.7	1,310.7	14,107.5
April	8,249.1	4,711.8	1,321.5	14,282.4
May	8,483.5	4,689.3	1,337.1	14,509.8

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, May 2017 and 2016 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	5,522.5	5,046.0	22,725.0	22,754.5	1,797.4	1,797.4	21.0	4.0	4,015.9	4,018.0	48.0	48.0	34,129.8	33,667.9
Connecticut	349.0	335.7	6,325.7	6,307.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,818.7	8,786.0
Maine	2,436.8	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	4,917.5	4,615.0
Massachusetts	1,115.0	1,004.8	9,786.1	9,843.0	1,768.0	1,768.0	2.0	2.0	677.2	682.3	0.0	0.0	13,348.3	13,300.1
New Hampshire	928.9	932.5	2,266.0	2,270.9	0.0	0.0	0.0	0.0	1,250.9	1,247.9	0.0	0.0	4,445.8	4,451.3
Rhode Island	101.6	55.8	1,806.8	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,908.4	1,847.1
Vermont	591.2	566.7	97.9	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	691.1	668.4
Middle Atlantic	10,953.1	10,714.4	69,410.0	67,716.6	3,409.1	3,409.1	70.4	70.5	19,304.3	19,224.5	11.2	11.2	103,158.1	101,146.3
New Jersey	854.3	739.4	13,568.1	13,558.3	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	18,961.5	18,836.8
New York	7,217.6	7,118.6	26,062.7	25,956.7	1,406.1	1,406.1	20.0	20.0	5,399.4	5,397.6	0.0	0.0	40,105.8	39,899.0
Pennsylvania	2,881.2	2,856.4	29,779.2	28,201.6	1,583.0	1,583.0	50.4	50.5	9,797.0	9,719.0	0.0	0.0	44,090.8	42,410.5
East North Central	10,815.9	10,211.0	112,945.7	113,721.1	2,133.0	2,037.0	187.4	157.4	18,911.3	18,896.1	110.1	110.1	145,103.4	145,132.7
Illinois	4,172.4	3,977.0	28,951.2	29,436.1	0.0	0.0	112.4	112.4	11,587.3	11,589.6	0.0	0.0	44,823.3	45,115.1
Indiana	2,205.8	2,159.5	23,056.0	23,353.9	0.0	0.0	22.0	2.0	0.0	0.0	89.0	89.0	25,372.8	25,604.4
Michigan	2,467.8	2,258.4	20,671.5	20,816.0	2,133.0	2,037.0	0.0	0.0	3,997.4	3,976.5	0.0	0.0	29,269.7	29,087.9
Ohio	846.6	715.6	25,804.0	25,765.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	28,837.6	28,657.6
Wisconsin	1,123.3	1,100.5	14,463.0	14,350.1	0.0	0.0	0.0	0.0	1,192.6	1,196.0	21.1	21.1	16,800.0	16,667.7
West North Central	25,302.8	21,568.7	61,179.0	60,610.9	657.0	657.0	2.0	2.0	5,394.9	5,855.5	24.5	24.5	92,560.2	88,718.6
Iowa	6,905.3	6,351.1	10,085.7	9,532.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,592.4	16,485.0
Kansas	4,952.0	3,863.7	9,782.1	9,716.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	15,909.9	14,756.3
Minnesota	4,541.2	3,917.3	10,169.6	10,160.6	0.0	0.0	1.0	1.0	1,657.0	1,647.0	18.4	18.4	16,387.2	15,744.3
Missouri	1,245.2	1,037.8	18,575.1	18,659.1	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,668.3	21,544.9
Nebraska	1,629.5	1,221.5	6,254.8	6,236.1	0.0	0.0	0.0	0.0	771.5	1,242.1	0.0	0.0	8,655.8	8,699.7
North Dakota	3,592.8	2,741.5	4,624.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,362.3
South Dakota	2,436.8	2,435.8	1,687.1	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,126.1
South Atlantic	16,972.7	14,474.5	162,512.7	159,733.1	7,905.2	7,905.2	79.5	77.5	24,598.6	24,578.6	402.7	509.7	212,471.4	207,278.6
Delaware	46.4	44.9	3,329.5	3,358.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	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	1,435.8	55,847.4	53,849.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	61,463.5	59,206.1
Georgia	3,916.1	3,245.7	26,968.8	27,190.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,809.1	36,360.8
Maryland	1,059.9	1,025.0	10,287.3	9,556.7	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,068.0	12,300.5
North Carolina	5,530.3	4,232.9	21,605.1	22,021.3	86.0	86.0	0.0	0.0	5,113.6	5,113.6	54.0	161.0	32,389.0	31,614.8
South Carolina	1,810.5	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	22,682.0	22,695.6
Virginia	1,866.3	1,757.8	18,723.0	17,951.2	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,398.3	26,518.0
West Virginia	1,035.8	930.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,264.6	15,158.8
East South Central	8,392.1	8,185.3	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	86,699.6	85,611.4
Alabama	4,082.2	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	29,370.3	29,220.8
Kentucky	1,114.4	1,081.6	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	20,086.1
Mississippi	281.3	274.7	14,302.0	14,407.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,985.7	16,084.5
Tennessee	2,914.2	2,889.1	12,301.4	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	3,400.7	0.0	0.0	21,354.6	20,220.0
West South Central	32,894.6	28,002.0	141,989.5	145,508.7	286.0	286.0	41.0	40.0	8,910.7	8,896.2	522.1	512.2	184,643.9	183,245.1
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	21,221.5	23,236.8	0.0	0.0	0.0	0.0	2,132.9	2,127.7	298.1	275.9	24,334.6	26,327.5
Oklahoma	7,585.8	6,389.5	18,192.4	18,175.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,036.2	24,822.9
Texas	23,034.6	19,333.8	91,310.4	92,811.7	0.0	0.0	41.0	40.0	4,960.0	4,960.0	224.0	236.3	119,570.0	117,381.8
Mountain	25,347.5	22,532.0	63,591.1	64,087.8	778.8	778.8	42.6	2.6	3,937.0	3,937.0	126.3	119.8	93,823.3	91,458.0
Arizona	4,994.0	4,557.4	19,407.3	19,382.4	216.3	216.3	40.0	0.0	3,937.0	3,937.0	0.0	0.0	28,594.6	28,093.1
Colorado	4,159.7	3,873.1	11,346.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,077.5	15,807.9
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	3,344.4	2,782.6	7,991.6	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	11,342.5	11,041.3
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	1,587.5	896.5	7,348.2	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,975.9	8,399.1
Wyoming	1,794.4	1,714.4	6,786.5	6,786.5	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,592.4	8,512.4
Pacific Contiguous	66,043.0	63,592.7	49,282.9	51,165.2	4,231.3	4,183.3	163.2	33.7	3,398.0	3,398.0	106.3	106.3	123,224.7	122,479.2
California	29,086.2	26,832.3	40,188.1	42,484.7	3,917.3	3,869.3	153.0	25.5	2,240.0	2,240.0	106.3	106.3	75,690.9	75,558.1
Oregon	12,164.6	12,041.1	4,318.1	3,872.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,487.7	15,918.9
Washington	24,792.2	24,719.3	4,776.7	4,807.7	314.0	314.0	5.2	3.2	1,158.0	1,158.0	0.0	0.0	31,046.1	31,002.2
Pacific Noncontiguous	1,117.9	1,079.9	4,216.6	4,160.6	0.0	0.0	84.5	56.0	0.0	0.0	26.6	26.6	5,445.6	5,323.1
Alaska	537.8	508.7	2,159.4	2,103.4	0.0	0.0	45.0	29.0	0.0	0.0	0.0	0.0	2,742.2	2,641.1
Hawaii	580.1	571.2	2,057.2	2,057.2	0.0	0.0	39.5	27.0	0.0	0.0	26.6	26.6	2,703.4	2,682.0
U.S. Total	203,362.1	185,406.5	753,558.2	755,398.8	22,814.1	22,670.1	691.6	443.7	99,454.8	98,672.0	1,379.2	1,469.8	1,081,260.0	1,064,060.9

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

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of 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, May 2017 and 2016 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	1,349.5	1,009.8	569.4	432.3	0.0	0.0	1,959.2	1,955.2	1,644.4	1,648.7	0.0	0.0	5,522.5	5,046.0	1,548.9	1,194.9	2,118.3	1,627.2	2,118.3	1,627.2
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	288.0	212.0	310.2	225.2	310.2	225.2
Maine	898.8	612.8	0.0	0.0	0.0	0.0	734.2	728.9	803.8	808.8	0.0	0.0	2,436.8	2,150.5	27.0	19.4	27.0	19.4	27.0	19.4
Massachusetts	94.5	86.6	471.3	369.0	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,115.0	1,004.8	1,059.6	859.5	1,530.9	1,228.5	1,530.9	1,228.5
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	244.6	0.0	0.0	928.9	932.5	62.4	34.5	62.4	34.5	62.4	34.5
Rhode Island	51.8	6.0	10.2	10.2	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	101.6	55.8	33.5	13.1	43.7	23.3	43.7	23.3
Vermont	120.2	120.2	65.7	39.9	0.0	0.0	329.4	330.7	75.9	75.9	0.0	0.0	591.2	566.7	78.4	56.3	144.1	96.2	144.1	96.2
Middle Atlantic	3,204.1	3,088.1	770.7	619.6	0.0	0.0	5,629.5	5,623.5	1,348.8	1,383.2	0.0	0.0	10,953.1	10,714.4	2,438.8	1,945.2	3,209.5	2,564.8	3,209.5	2,564.8
New Jersey	7.6	7.6	607.1	490.4	0.0	0.0	12.3	12.3	227.3	229.1	0.0	0.0	854.3	739.4	1,296.3	1,130.6	1,903.4	1,621.0	1,903.4	1,621.0
New York	1,824.7	1,747.0	115.7	84.8	0.0	0.0	4,717.6	4,711.6	559.6	575.2	0.0	0.0	7,217.6	7,118.6	848.6	616.7	964.3	701.5	964.3	701.5
Pennsylvania	1,371.8	1,333.5	47.9	44.4	0.0	0.0	899.6	899.6	561.9	578.9	0.0	0.0	2,881.2	2,856.4	293.9	197.8	341.8	242.2	341.8	242.2
East North Central	8,322.7	7,814.1	344.2	215.3	0.0	0.0	853.1	910.3	1,295.9	1,271.3	0.0	0.0	10,815.9	10,211.0	221.1	158.8	565.3	374.1	565.3	374.1
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	121.7	110.3	0.0	0.0	4,172.4	3,977.0	34.9	23.8	67.7	56.6	67.7	56.6
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	16.8	9.1	189.4	141.0	189.4	141.0
Michigan	1,583.8	1,360.1	60.5	6.9	0.0	0.0	263.0	330.9	560.5	560.5	0.0	0.0	2,467.8	2,258.4	NM	30.0	NM	36.9	NM	36.9
Ohio	533.9	433.1	66.9	42.7	0.0	0.0	101.9	101.9	143.9	137.9	0.0	0.0	846.6	715.6	88.1	73.9	155.0	116.6	155.0	116.6
Wisconsin	331.5	331.4	11.4	1.0	0.0	0.0	393.7	383.0	386.7	385.1	0.0	0.0	1,123.3	1,100.5	34.9	22.1	46.3	23.1	46.3	23.1
West North Central	21,073.9	17,716.3	386.4	23.4	0.0	0.0	3,289.4	3,278.1	553.1	550.9	0.0	0.0	25,302.8	21,568.7	220.5	168.2	606.9	191.6	606.9	191.6
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	51.0	34.6	53.6	34.6	53.6	34.6
Kansas	4,935.0	3,846.7	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	4,952.0	3,863.7	8.2	5.7	9.2	6.7	9.2	6.7
Minnesota	3,507.8	3,240.7	346.8	5.3	0.0	0.0	205.9	194.6	480.7	476.7	0.0	0.0	4,541.2	3,917.3	34.3	23.4	381.1	28.7	381.1	28.7
Missouri	654.3	458.5	28.7	17.1	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,245.2	1,037.8	123.1	102.2	151.8	119.3	151.8	119.3
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	4,367.1	2,276.0	0.0	0.0	7,257.6	7,249.3	4,261.7	4,173.9	0.0	0.0	16,972.7	14,474.5	1,301.1	924.3	5,668.2	3,200.3	5,668.2	3,200.3
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	89.4	74.2	121.6	104.9	121.6	104.9
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	12.0	12.0	46.0	32.7	46.0	32.7	46.0	32.7
Florida	0.0	0.0	345.5	92.7	0.0	0.0	54.5	54.5	1,295.4	1,288.6	0.0	0.0	1,695.4	1,435.8	161.6	136.0	507.1	228.7	507.1	228.7
Georgia	0.0	0.0	968.1	302.8	0.0	0.0	2,047.2	2,045.1	900.8	897.8	0.0	0.0	3,916.1	3,245.7	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	137.9	103.0	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,059.9	1,025.0	620.8	445.7	758.7	548.7	758.7	548.7
North Carolina	208.0	0.0	2,756.2	1,741.3	0.0	0.0	2,002.0	2,004.1	564.1	487.5	0.0	0.0	5,530.3	4,232.9	118.8	93.5	2,875.0	1,834.8	2,875.0	1,834.8
South Carolina	0.0	0.0	19.3	2.5	0.0	0.0	1,348.4	1,345.1	442.8	442.8	0.0	0.0	1,810.5	1,790.4	89.1	14.3	108.4	16.8	108.4	16.8
Virginia	0.0	0.0	107.9	3.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,866.3	1,757.8	44.5	25.5	152.4	28.5	152.4	28.5
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	349.5	344.5	0.0	2.2	0.0	0.0	1,035.8	930.0	5.1	3.9	5.1	3.9	5.1	3.9
East South Central	29.1	29.1	172.5	55.2	0.0	0.0	6,921.0	6,890.5	1,269.5	1,210.5	0.0	0.0	8,392.1	8,185.3	100.8	55.6	273.3	110.8	273.3	110.8
Alabama	0.0	0.0	85.6	0.0	0.0	0.0	3,270.2	3,271.0	726.4	668.9	0.0	0.0	4,082.2	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	10.0	0.0	0.0	1,032.2	1,000.9	72.2	70.7	0.0	0.0	1,114.4	1,081.6	14.7	10.8	24.7	20.8	24.7	20.8
Mississippi	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	281.3	274.7	29.8	2.9	36.4	2.9	36.4	2.9
Tennessee	29.1	29.1	70.3	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,914.2	2,889.1	52.1	39.5	122.4	84.7	122.4	84.7
West South Central	27,561.7	23,309.1	985.3	333.4	0.0	0.0	2,989.0	2,986.5	1,358.6	1,373.0	0.0	0.0	32,894.6	28,002.0	529.3	314.4	1,514.6	647.8	1,514.6	647.8
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	5.6	4.3	18.6	17.3	18.6	17.3
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	490.1	495.1	0.0	0.0	682.1	687.1	126.3	113.2	126.3	113.2	126.3	113.2
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	13.7	2.9	16.2	5.4	16.2	5.4
Texas	20,917.6	17,857.9	969.8	317.9	0.0	0.0	668.7	668.7	478.5	489.3	0.0	0.0	23,034.6	19,333.8	383.7	194.0	1,353.5	511.9	1,353.5	511.9
Mountain	8,404.5	7,901.4	5,193.7	2,864.0	473.9	473.9	10,544.8	10,561.7	186.3	186.2	544.3	544.8	25,347.5	22,532.0	1,640.0	1,473.7	6,833.7	4,337.7	7,307.6	4,811.6
Arizona	267.3	267.3	1,679.7	1,243.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,994.0	4,557.4	908.9	830.9	2,588.6	2,074.0	2,884.0	2,369.4
Colorado	3,026.1	2,961.8	417.5	206.2	0.0	0.0	687.4	677.7	28.7	27.4	0.0	0.0	4,159.7	3,873.1	308.5	270.2	726.0	476.4	726.0	476.4
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	8.6	5.6	248.6	5.6	248.6	5.6
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	9.1	6.7	9.1	6.7	9.1	6.7
Nevada	150.0	150.0	1,495.0	932.9	178.5	178.5	1,051.4	1,051.4	9.8	9.6	459.7	460.2	3,344.4	2,782.6	183.3	201.8	1,678.3	1,134.7	1,856.8	1,313.2
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	65.2	82.6	569.6	398.0	569.6	398.0
Utah	388.2	386.5	857.1	166.4	0.0	0.0	256.4	256.4	12.8	14.2	73.0	73.0	1,587.5	896.5	153.7	74.0	1,010.8	240.4	1,010.8	240.4
Wyoming	1,487.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,714.4	2.7	2.0	2.7	2.0	2.7	2.0
Pacific Contiguous	11,966.0	11,957.3	8,859.5	6,368.3	1,284.0	1,284.0	40,019.9	39,954.8	2,047.9	2,074.6	1,865.7	1,953.7	66,043.0	63,592.7	5,959.2	4,668.6	14,818.7	11,036.9	16,102.7	12,320.9
California	5,682.7	5,726.8	8,759.1	6,346.6	1,284.0	1,284.0	10,180.5	10,186.7	1,333.7	1,354.0	1,846.2	1,934.2	29,086.2	26,832.3	5,749.8	4,525.9	14,508.9	10,872.5	15,792.9	12,156.5
Oregon	3,210.2	3,157.4	99.9	21.2	0.0	0.0	8,525.2	8,525.4	309.8	317.6	19.5	19.5	12,164.6	12,041.1	126.1	77.8	226.0	99.0	226.0	99.0
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.2	21,242.7	404.4	403.0	0.0	0.0	24,792.2	24,719.3	83.4	64.8	83.9	65.3	83.9	65.3
Pacific Noncontiguous	266.2	266.2	98.3	44.2	0.0	0.0	496.1	466.1	214.3	260.4	43.0	43.0	1,117.9	1,079.9	550.1	408.0	648.4	452.2	648.4	452.2
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.2	441.1	7.0	7.0	0.0	0.0	537.8	508.7	1.7	0.0	1.7	0.0	1.7	0.0
Hawaii	205.6	205.6	98.3	44.2	0.0	0.0	25.9	25.0	207.3	253.4	43.0	43.0	580.1	571.2	548.5	408.0	646.8	452.2	646.8	452.2
U.S. Total	83,264.0	73,866.7	21,747.1	13,231.7	1,757.9	1,757.9	79,959.6	79,876.0	14,180.5	14,132.7	2,453.0	2,541.5	203,362.1	185,406.5	14,509.8	11,311.7	36,256.9	24,543.4	38,014.8	26,301.3

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, May 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	
	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016	May 2017	May 2016
New England	12,018.1	11,893.0	1,105.3	1,115.5	1,051.8	641.5	1,955.3	1,988.3	0.0	0.0	6,594.5	7,116.2	0.0	0.0	22,725.0	22,754.5
Connecticut	2,567.3	2,547.5	467.3	479.3	424.7	416.6	383.4	383.4	0.0	0.0	2,483.0	2,480.3	0.0	0.0	6,325.7	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	5,192.6	5,098.6	337.1	335.3	200.0	198.0	1,038.0	1,071.0	0.0	0.0	3,018.4	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	400.2	0.0	533.9	533.9	0.0	0.0	97.1	498.0	0.0	0.0	2,266.0	2,270.9
Rhode Island	1,777.2	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,806.8	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	99.7	0.0	0.0	97.9	99.7
Middle Atlantic	26,316.5	24,706.5	7,650.9	7,599.7	15,362.6	13,516.8	14,512.4	16,308.0	78.6	78.6	5,363.2	5,383.2	125.8	123.8	69,410.0	67,716.6
New Jersey	8,109.8	8,074.3	2,792.9	2,817.1	1,113.2	1,113.2	1,245.0	1,245.0	11.6	11.6	272.2	273.7	23.4	23.4	13,568.1	13,558.3
New York	8,128.1	8,095.7	3,178.8	3,105.2	9,633.3	9,522.0	1,642.4	1,749.6	0.0	0.0	3,480.1	3,484.2	0.0	0.0	26,062.7	25,956.7
Pennsylvania	10,078.6	8,536.5	1,679.2	1,677.4	4,616.1	2,881.6	11,625.0	13,313.4	67.0	67.0	1,610.9	1,625.3	102.4	100.4	29,779.2	28,201.6
East North Central	17,124.8	17,001.6	26,252.0	25,600.0	3,785.3	3,486.6	61,636.5	63,447.8	317.6	317.6	2,663.6	2,724.4	1,165.9	1,143.1	112,945.7	113,721.1
Illinois	3,547.5	3,543.0	10,302.2	10,169.1	277.4	281.4	14,024.6	14,644.6	0.0	0.0	685.0	680.3	114.5	117.7	28,951.2	29,436.1
Indiana	2,459.0	2,480.2	3,191.2	3,127.6	706.9	288.1	15,776.8	16,529.4	70.0	70.0	237.8	270.3	614.3	588.3	23,056.0	23,353.9
Michigan	4,294.5	4,296.5	3,969.0	3,513.5	2,131.7	2,465.8	9,482.7	9,712.5	47.2	47.2	496.4	530.5	250.0	250.0	20,671.5	20,816.0
Ohio	4,074.8	4,041.0	5,431.7	5,427.7	150.8	131.4	15,177.6	15,189.9	142.0	142.0	640.0	645.9	187.1	187.1	25,804.0	25,765.0
Wisconsin	2,749.0	2,640.9	3,357.9	3,362.1	518.5	319.9	7,174.8	7,371.4	58.4	58.4	604.4	597.4	0.0	0.0	14,463.0	14,350.1
West North Central	6,638.6	6,034.9	11,612.2	11,380.8	4,328.3	3,801.6	34,593.0	35,256.8	32.0	32.0	3,966.5	4,096.4	8.4	8.4	61,179.0	60,610.9
Iowa	1,774.7	1,125.8	1,246.4	1,105.6	593.4	535.4	5,541.1	5,719.1	32.0	32.0	898.1	1,014.6	0.0	0.0	10,085.7	9,532.5
Kansas	266.0	266.0	2,172.0	2,171.8	2,105.6	2,054.5	4,698.2	4,687.2	0.0	0.0	540.3	537.3	0.0	0.0	9,782.1	9,716.8
Minnesota	2,172.0	2,173.2	2,519.9	2,534.1	376.6	353.8	4,301.0	4,300.1	0.0	0.0	800.1	799.4	0.0	0.0	10,169.6	10,160.6
Missouri	1,793.3	1,837.3	3,420.5	3,395.2	501.0	349.9	11,726.1	11,932.0	0.0	0.0	1,134.2	1,144.7	0.0	0.0	18,575.1	18,659.1
Nebraska	342.6	342.6	1,150.8	1,151.5	631.4	499.3	3,817.3	3,929.0	0.0	0.0	312.7	313.7	0.0	0.0	6,254.8	6,236.1
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,624.6	4,615.5
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	475.0	0.0	0.0	219.8	222.0	0.0	0.0	1,687.1	1,690.3
South Atlantic	52,658.3	51,253.3	33,512.9	31,109.1	7,383.9	6,997.9	57,308.7	58,309.6	83.8	83.8	11,430.1	11,844.4	135.0	135.0	162,512.7	159,733.1
Delaware	1,512.0	1,512.0	315.2	311.0	843.2	876.0	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	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	27,444.7	27,505.6	9,647.5	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	55,847.4	53,849.6
Georgia	7,957.7	7,953.2	7,837.8	7,857.0	796.4	789.4	9,360.5	9,508.5	83.8	83.8	932.6	999.0	0.0	0.0	26,968.8	27,190.9
Maryland	976.0	250.0	1,966.2	1,581.0	1,414.2	1,415.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,287.3	9,556.7
North Carolina	4,724.8	4,766.0	5,957.7	6,049.7	0.0	0.0	10,536.8	10,802.8	0.0	0.0	385.8	402.8	0.0	0.0	21,605.1	22,021.3
South Carolina	2,409.0	2,409.0	2,813.9	2,855.6	296.0	296.0	5,547.0	5,547.0	0.0	0.0	513.4	525.4	0.0	0.0	11,579.3	11,633.0
Virginia	7,634.1	6,857.5	3,894.3	3,894.1	1,045.8	586.0	3,800.4	4,264.3	0.0	0.0	2,348.4	2,349.3	0.0	0.0	18,723.0	17,951.2
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	5,362.8	4,147.0	26,915.5	29,432.4	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	260.0	11,797.8	13,027.7	0.0	0.0	76.9	76.9	0.0	0.0	18,874.6	19,004.5
Mississippi	7,590.5	7,576.7	1,718.9	1,718.9	3,128.3	3,247.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,302.0	14,407.4
Tennessee	1,403.0	1,403.0	3,774.7	3,777.2	66.2	3.2	7,014.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,301.4	12,313.9
West South Central	58,131.0	59,007.1	13,370.2	13,293.1	32,254.6	34,975.6	36,441.4	36,432.5	955.7	959.3	181.3	181.3	655.3	659.8	141,989.5	145,508.7
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	7,552.8	7,557.4	2,372.3	2,358.1	7,098.7	9,117.8	2,852.9	2,855.1	891.9	895.5	45.5	45.5	407.4	407.4	21,221.5	23,236.8
Oklahoma	6,783.7	6,720.2	1,285.9	1,292.2	5,164.9	5,222.1	4,883.5	4,866.5	0.0	0.0	74.4	74.4	0.0	0.0	18,192.4	18,175.4
Texas	39,174.0	40,126.6	9,009.2	8,911.8	19,177.3	19,819.4	23,589.0	23,588.5	63.8	63.8	49.2	49.2	247.9	252.4	91,310.4	92,811.7
Mountain	22,489.9	22,487.3	8,856.0	8,926.6	3,176.2	3,196.9	28,534.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,591.1	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	2,569.3	2,535.3	329.0	329.0	5,038.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,346.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,147.1	1,157.5
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,415.0	5,418.6	1,385.6	1,385.6	444.6	451.1	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,991.6	8,258.7
New Mexico	1,460.7	1,469.0	976.0	1,080.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,824.0	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	316.2	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,410.1	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,786.5	6,786.5
Pacific Contiguous	25,990.4	25,164.4	11,769.7	11,447.1	8,874.2	11,890.1	1,982.0	2,015.0	17.0	17.0	422.3	422.3	227.3	209.3	49,282.9	51,165.2
California	19,945.0	19,571.3	10,916.5	10,551.9	8,618.2	11,638.1	57.0	90.0	17.0	17.0	407.1	407.1	227.3	209.3	40,188.1	42,484.7
Oregon	3,374.9	2,929.6	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	3,872.8
Washington	2,670.5	2,663.5	719.4	761.4	31.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,776.7	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	2,595.9	2,569.9	6.4	9.6	4,216.6	4,160.6
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	725.1	702.3	0.0	0.0	2,159.4	2,103.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,867.6	6.4	9.6	2,057.2	2,057.2
U.S. Total	242,045.0	237,006.9	127,757.9	124,129.5	81,754.7	82,829.0	264,213.2	272,466.8	1,536.7	1,540.3	33,795.2	34,925.9	2,455.5	2,500.4	753,558.2	755,398.8

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
2017	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV
2017	5	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	5	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 5	NC	61278	WILS5	9.5	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 6	NC	61279	WILS6	9.7	Solar Photovoltaic	SUN	PV
2017	5	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV
2017	5	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV
2017	5	60879	NGI-Kayenta Solar Lessor I, LLC	IPP	Kayenta Solar Project	AZ	61268	PV1	27.3	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	T0588 Phoenix - AZ	AZ	61199	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV
2017	5	57081	WGL Energy Systems, Inc	IPP	Gulfport Naval Base CSG PV System	MS	61208	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	3	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GT1	11.0	Petroleum Liquids	DFO	GT
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	3	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.1	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	5	29849	Wasatch Integrated Waste Management	Electric CHP	Wasatch Energy Systems Energy Recovery	UT	55302	1	1.6	Municipal Solid Waste	MSW	ST

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	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	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	6	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	6	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	6	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	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
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	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	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	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	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	178.2
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	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	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	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	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 Combined Cycle	NC	58697	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
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	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	6	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	6	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	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	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	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
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	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	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	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	6	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	6	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	6	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	6	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	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	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	6	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	6	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	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	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	6	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	6	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 CSG LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	6	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	6	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	6	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	6	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	6	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	6	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	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

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	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	(V) Under construction, more than 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	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	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	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	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2017	6	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	6	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.8
2017	6	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	6	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	6	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	6	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	6	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	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	(TS) Construction complete, but not yet in commercial operation	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	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	7	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	7	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	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	7	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	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	7	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	7	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2017	7	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2017	7	60865	CD Global Solar Holdings, LLC	IPP	ZV Solar 2, LLC	NC	61257	ZV204	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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	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	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	253.0
2017	7	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.4
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60739	Gulf Coast Solar Center II (CA)	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2017	7	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	7	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	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	13.8
2017	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	7	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	7	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	7	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	7	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	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	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	7	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	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	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	7	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	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	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	7	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	7	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	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	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	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	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	8	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	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	8	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	8	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	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	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	(V) Under construction, more than 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	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	8	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	8	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	8	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2017	8	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2017	8	60950	USPS LA Solar FiT A & B	Electric Utility	USPS PV	CA	61250	USPS1	10.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.7
2017	9	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	9	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	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	9	15399	Avangrid Renewables LLC	IPP	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	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.6
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	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	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	236.0
2017	9	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	9	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	9	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	9	59745	First Solar Asset Management	IPP	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	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	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	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	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	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.6
2017	9	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	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	60947	Tesla Inc.	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	9	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	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	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	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	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(OT) Other	0.9
2017	10	6455	Duke Energy Florida, LLC	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.8
2017	10	58970	Ecoplexus, Inc	IPP	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	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	(V) Under construction, more than 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	71.0
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	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	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	(U) Under construction, less than or equal to 50 percent complete	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	57054	Suzlon Project VIII LLC	IPP	Suzlon Project VIII LLC	TX	57741	S128	2.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	2.6
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9

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	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 Interconnection 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	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2017	11	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	11	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	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	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	15399	Avangrid Renewables LLC	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	15399	Avangrid Renewables LLC	IPP	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	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2017	12	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	60746	Bedford Solar, LLC	IPP	Bedford Solar	VA	61126	12346	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	25.0
2017	12	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	202.0
2017	12	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.8
2017	12	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(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	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	(V) Under construction, more than 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	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5

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	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
2017	12	60747	Gamble Solar, LLC	IPP	Gamble Solar	NC	61127	12348	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2017	12	57389	IKEA Property Inc	Commercial	IKEA Joliet Rooftop PV System	IL	61192	PV	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.1
2017	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2017	12	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2017	12	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2017	12	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	12	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	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	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	168.0
2017	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2017	12	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	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2017	12	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.2
2017	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2017	12	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	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.5
2017	12	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60947	Tesla Inc.	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2017	12	60947	Tesla Inc.	IPP	Sacramento Regional County Sanitation PV	CA	61209	PV1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	12	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2017	12	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.8
2017	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	1	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	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	460.0
2018	1	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	2	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
2018	2	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2018	2	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	(T) Regulatory approvals received. Not under construction	73.4
2018	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	58.2
2018	3	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(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	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2018	3	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6	360.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	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	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(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	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	3	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	(V) Under construction, more than 50 percent complete	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	4	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2018	4	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0

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	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	280.5
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	205.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	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	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	6	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	6	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	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	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	6	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	6	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	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	340.0
2018	6	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2018	6	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	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	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2018	6	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

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	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	6	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	6	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	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	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	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	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	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	6	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	6	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	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	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	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	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	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	8	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2018	8	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	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3

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	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
2018	12	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	90.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(OT) Other	30.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	201.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	60603	Eisenhower Solar, LLC	IPP	Eisenhower Solar	NC	60963	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	76.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	76.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2018	12	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

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	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	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	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	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2018	12	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
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	(U) Under construction, less than or equal to 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	394.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	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

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	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	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	225.0
2019	6	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0		WDS	CC	(T) Regulatory approvals received. Not under construction	50.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
2019	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	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	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2019	9	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	9	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2019	9	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2019	10	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	15399	Avangrid Renewables LLC	IPP	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	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0

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	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2019	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2019	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	60604	Mountain Lion Solar, LLC	IPP	Mountain Lion Solar	NC	60950	PV1	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2019	12	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	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	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	6	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	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2020	6	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2020	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	BA1	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2020	11	49880	EDP Renewables North America LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	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	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	498.2	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	552.0
2021	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	474.3	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	534.5
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	123.6	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	136.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2022	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM8	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	1	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM9	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	2	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM10	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM11	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	4	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM12	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	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	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	6	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	9	50.0	Petroleum Liquids	DFO	GT
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	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Hudson Generating Station	NJ	2403	2	620.0	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	1	316.0	Conventional Steam Coal	BIT	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	2	316.0	Conventional Steam Coal	BIT	ST
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND1	0.8	Onshore Wind Turbine	WND	WT
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND2	0.8	Onshore Wind Turbine	WND	WT
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	8	103.8	Conventional Hydroelectric	WAT	HY
2017	9	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	1	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	2	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	3	41.0	Conventional Steam Coal	SUB	ST
2017	12	9205	Illinois Electricial Gen Partn	IPP	Streator Energy Partners LLC	IL	55760	ST1	0.9	Landfill Gas	LFG	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST

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	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	0.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2018	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	1	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	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

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	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	Nuclear	NUC	ST
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	42.2	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	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	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	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	Lake Road (MO)	MO	2098	4	97.1	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	6	20.9	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	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
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT2	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT3	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	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

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-May 2017

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	52.7%	56.0%	8.3%	12.2%	NA	10.8%	1.3%	NA
Year 2015								
January	61.3%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	64.9%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.8%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	43.9%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
Year 2016								
January	55.6%	56.8%	4.5%	6.3%	NA	9.4%	0.5%	NA
February	48.4%	54.1%	4.5%	6.4%	NA	9.9%	0.5%	NA
March	35.6%	50.8%	7.2%	9.9%	NA	8.3%	1.3%	NA
April	37.3%	48.1%	8.6%	12.1%	NA	9.1%	1.0%	NA
May	41.1%	53.2%	7.6%	12.5%	NA	10.6%	1.3%	NA
June	60.8%	64.7%	10.0%	17.5%	NA	12.5%	1.5%	NA
July	69.1%	68.8%	14.3%	22.9%	NA	16.1%	2.5%	NA
August	68.6%	71.3%	14.3%	21.2%	NA	14.3%	3.1%	NA
Sept	59.7%	61.4%	9.4%	14.5%	NA	12.2%	1.4%	NA
October	50.2%	48.1%	7.6%	11.4%	NA	8.2%	1.1%	NA
November	45.5%	47.0%	6.6%	6.0%	NA	9.3%	0.7%	NA
December	60.2%	47.8%	4.7%	5.4%	NA	9.4%	0.6%	NA
Year 2017								
January	58.6%	50.6%	5.8%	4.1%	NA	10.0%	1.4%	NA
February	48.7%	48.6%	6.1%	3.6%	NA	8.9%	1.8%	NA
March	45.4%	48.1%	8.5%	8.2%	NA	12.1%	2.1%	NA
April	43.4%	45.7%	7.2%	8.9%	NA	9.0%	1.3%	NA
May	48.3%	49.5%	8.6%	9.7%	NA	15.0%	2.6%	NA

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-May 2017

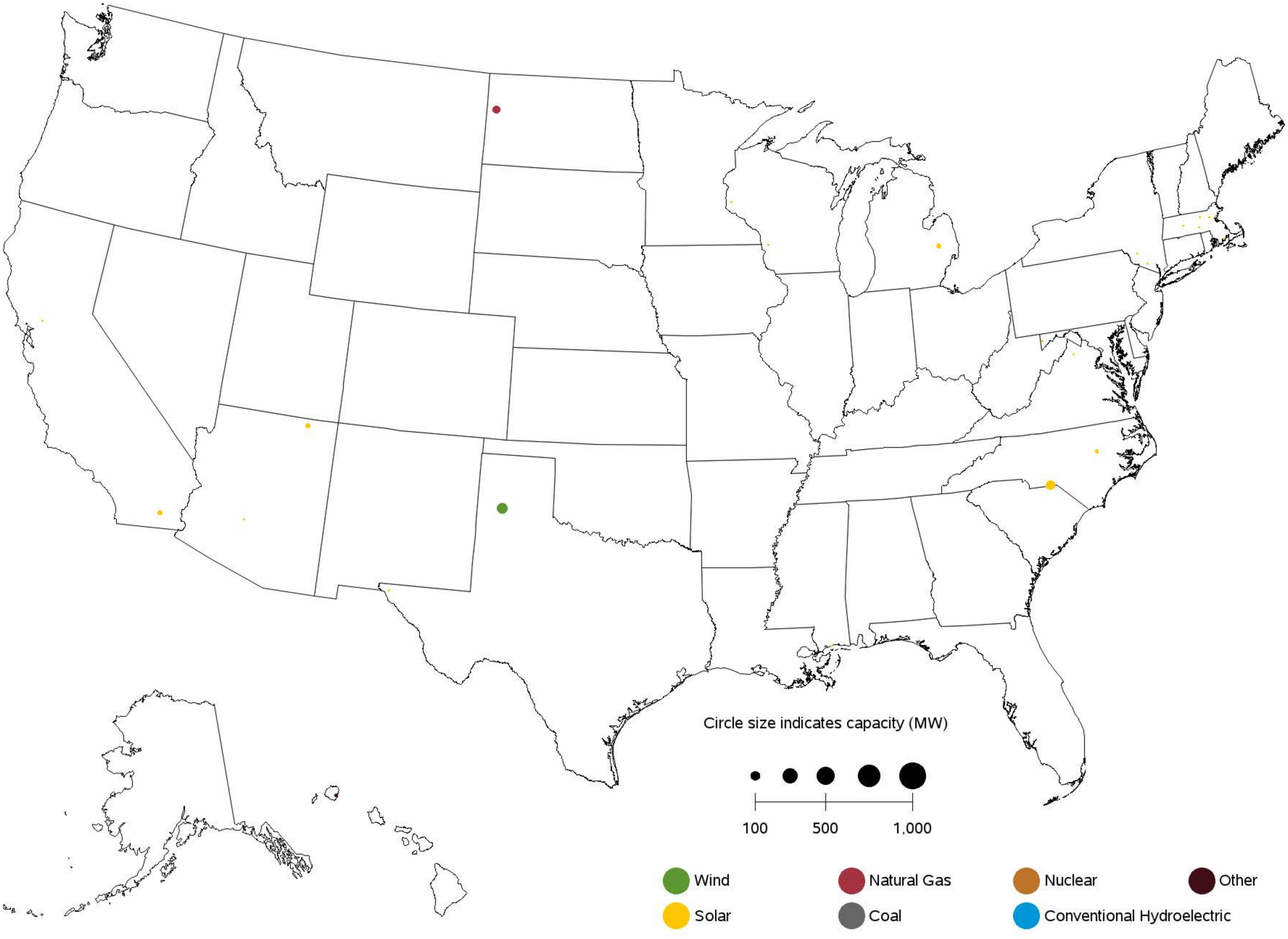
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.5%	38.0%	34.7%	27.2%	22.2%	70.7%	46.7%	74.2%
Year 2015								
January	101.3%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
Year 2016								
January	98.8%	42.6%	34.2%	17.9%	6.8%	70.3%	51.2%	73.6%
February	95.6%	43.2%	39.9%	26.7%	19.5%	66.0%	54.0%	73.5%
March	90.1%	45.2%	40.4%	28.0%	19.6%	63.5%	47.8%	72.8%
April	87.8%	44.2%	39.4%	30.8%	20.9%	68.5%	36.4%	68.9%
May	90.7%	42.6%	34.3%	35.0%	28.9%	75.2%	39.0%	74.1%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.8%	47.2%	71.6%
July	94.8%	35.9%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%
Sept	91.1%	28.4%	30.6%	30.1%	30.2%	70.7%	47.4%	76.1%
October	81.9%	29.2%	36.7%	25.3%	19.1%	66.4%	38.0%	75.1%
November	91.1%	33.3%	35.4%	21.3%	14.4%	71.5%	41.6%	78.2%
December	97.0%	38.2%	38.8%	15.5%	7.0%	76.3%	50.2%	80.7%
Year 2017								
January	99.0%	48.4%	36.6%	16.9%	7.3%	74.2%	42.4%	79.8%
February	96.0%	47.7%	42.5%	20.0%	11.7%	70.6%	51.3%	78.1%
March	88.1%	54.1%	44.7%	27.9%	22.9%	67.9%	47.8%	75.0%
April	79.2%	53.5%	44.8%	31.0%	24.9%	68.0%	48.1%	78.6%
May	82.9%	56.6%	38.8%	34.1%	31.0%	70.6%	43.4%	74.0%

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.

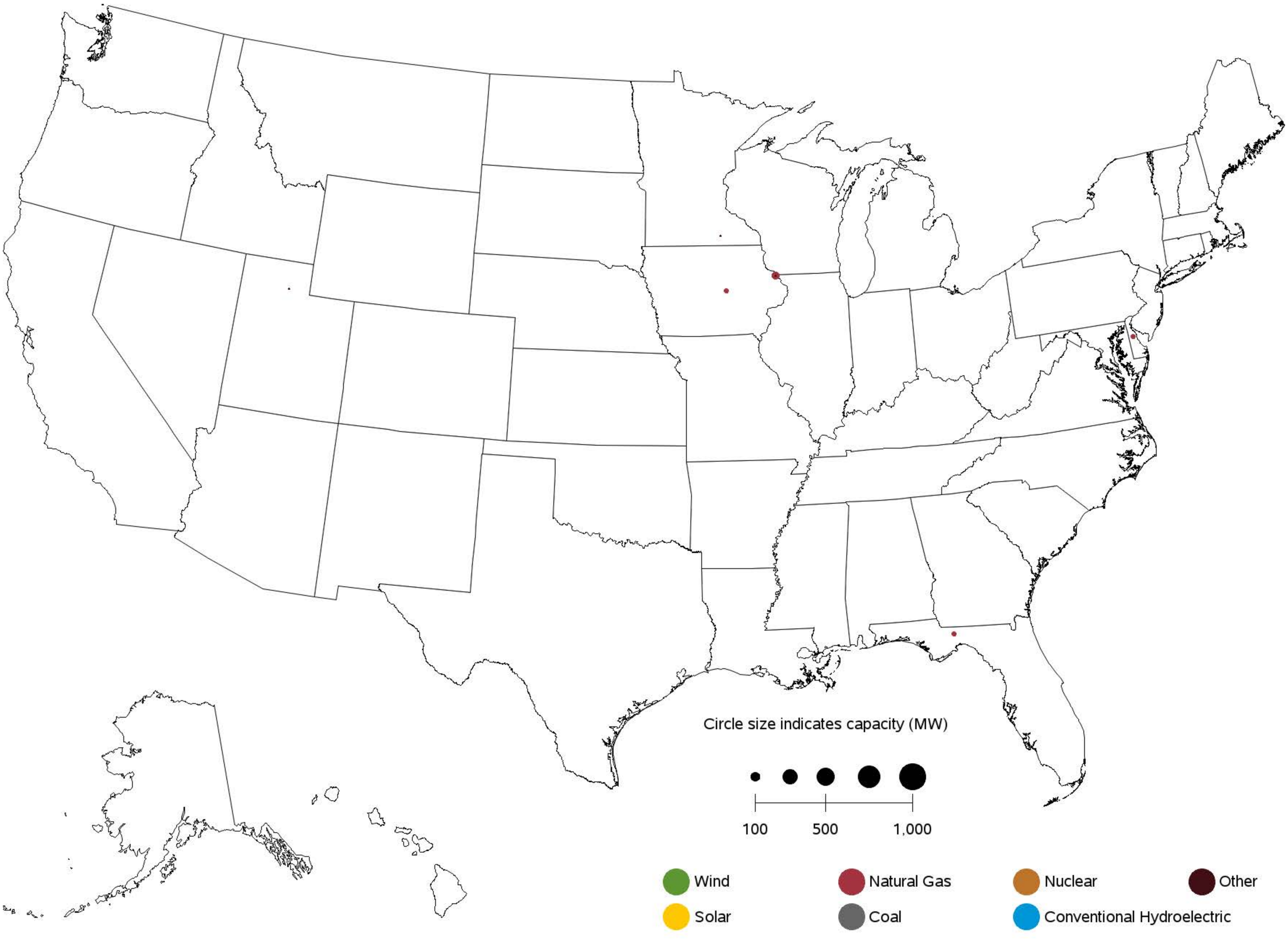
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



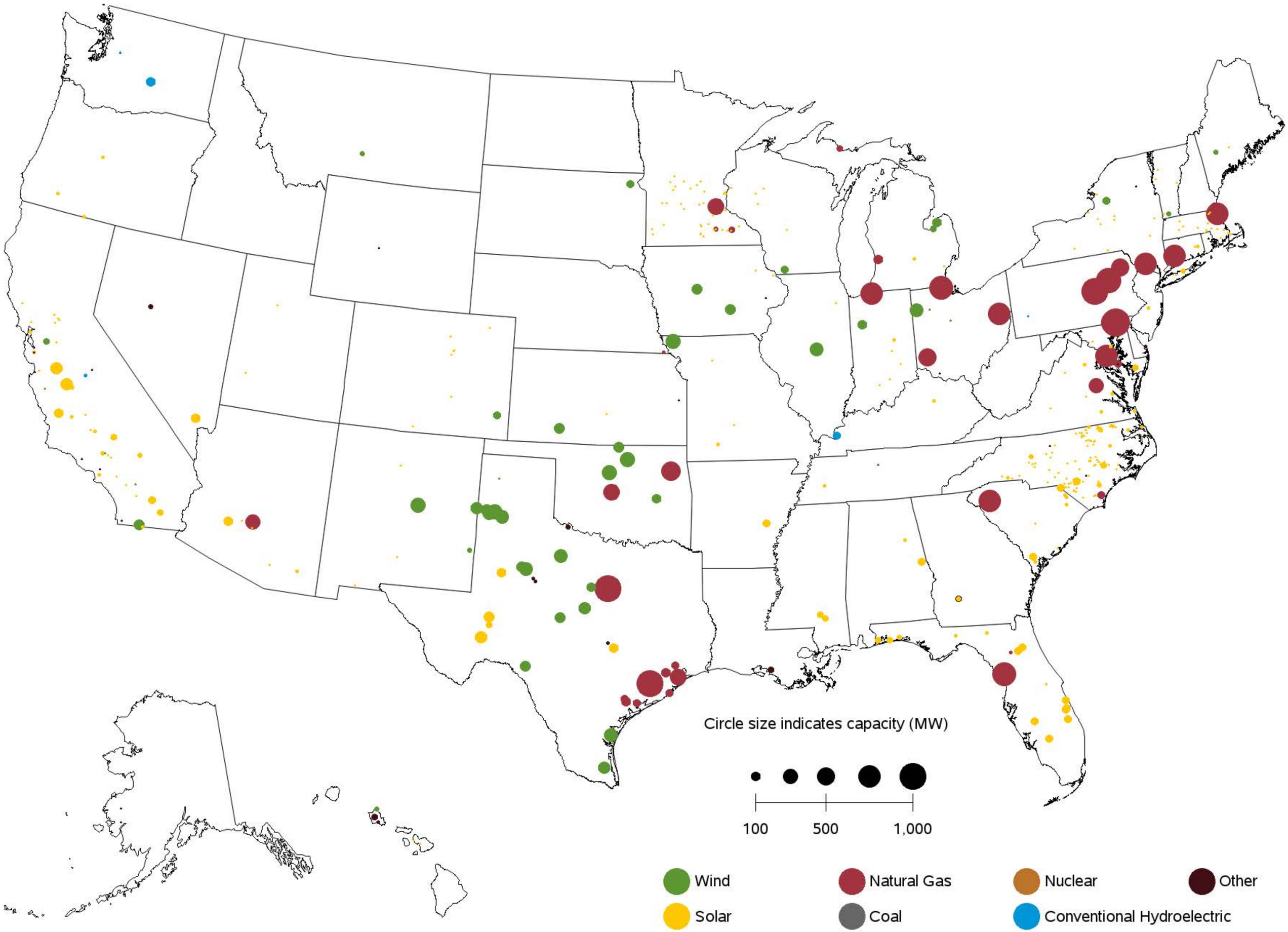
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



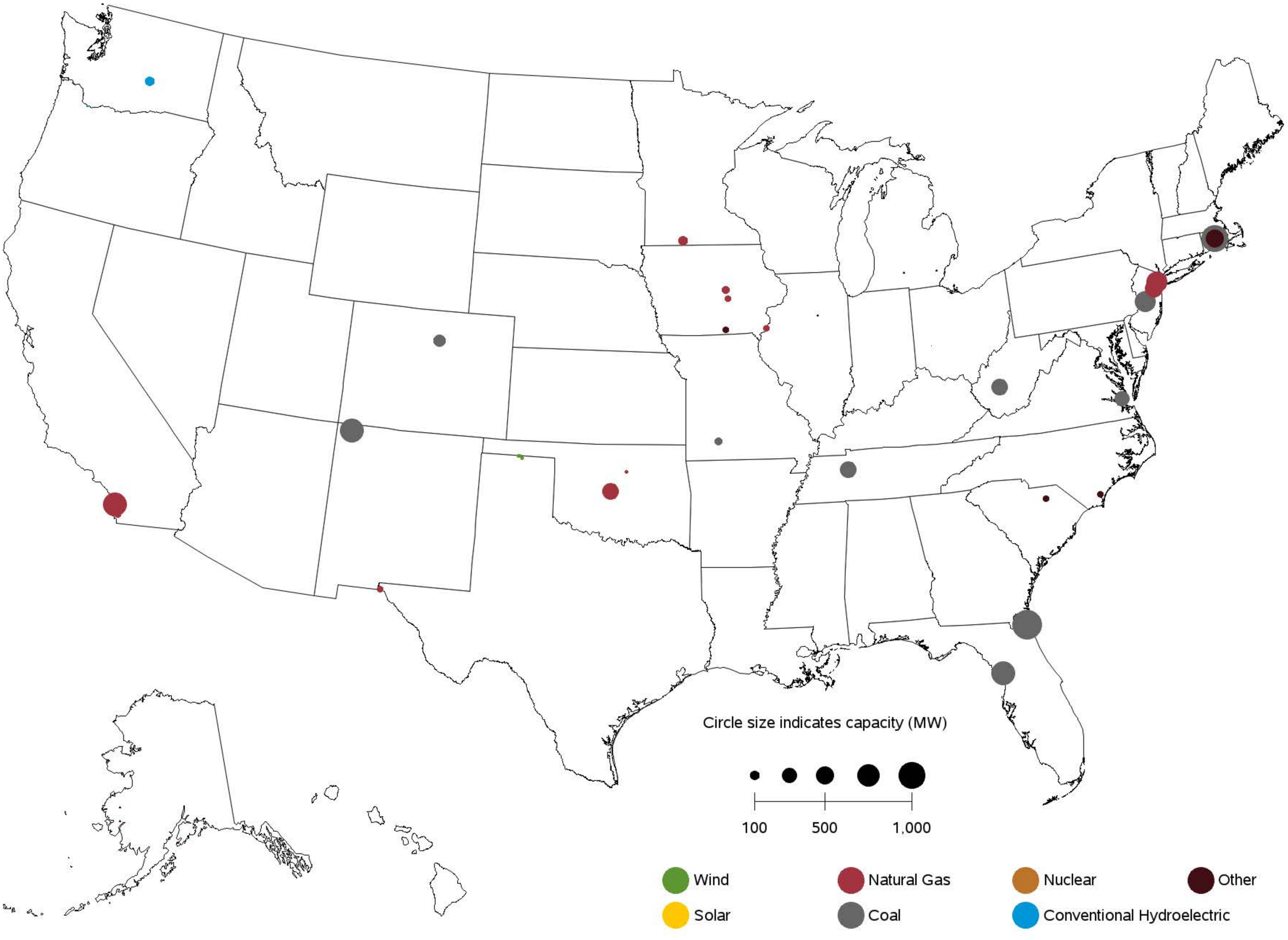
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**9**	**10**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	49	0	4	0	0	29
Maine	100	74	0	51	0	0	10
Massachusetts	0	7	0	7	0	0	19
New Hampshire	0	6	0	0	0	0	16
Rhode Island	0	199	0	25	0	0	0
Vermont	0	24	0	0	0	0	16
Middle Atlantic	**2**	**17**	**81**	**3**	**34**	**0**	**2**
New Jersey	0	57	0	7	0	0	81
New York	0	24	0	4	0	0	2
Pennsylvania	3	19	100	3	52	0	11
East North Central	**0**	**3**	**20**	**3**	**10**	**0**	**17**
Illinois	0	5	0	7	0	0	51
Indiana	0	3	0	6	18	0	28
Michigan	2	6	0	5	0	0	32
Ohio	1	5	48	2	29	0	25
Wisconsin	1	26	0	14	0	0	26
West North Central	**1**	**7**	**0**	**18**	**0**	**0**	**11**
Iowa	2	9	0	29	0	0	44
Kansas	6	8	0	33	0	0	0
Minnesota	5	38	0	26	0	0	45
Missouri	0	9	0	32	0	0	13
Nebraska	4	87	0	52	0	0	32
North Dakota	0	3	0	72	0	0	26
South Dakota	0	100	0	57	0	0	17
South Atlantic	**1**	**8**	**26**	**1**	**56**	**0**	**6**
Delaware	0	98	0	8	64	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	7	0	1	0	0	35
Georgia	2	27	99	4	0	0	11
Maryland	0	10	0	11	0	0	1
North Carolina	0	26	0	3	0	0	9
South Carolina	0	50	0	5	0	0	13
Virginia	5	11	0	4	0	0	16
West Virginia	1	0	0	21	0	0	16
East South Central	**1**	**7**	**0**	**2**	**24**	**0**	**4**
Alabama	0	41	0	3	41	0	5
Kentucky	2	8	0	2	0	0	10
Mississippi	0	25	0	3	0	0	0
Tennessee	0	0	0	6	0	0	6
West South Central	**0**	**12**	**1**	**2**	**4**	**0**	**7**
Arkansas	0	8	0	8	0	0	10
Louisiana	0	143	0	3	6	0	17
Oklahoma	0	138	0	4	0	0	11
Texas	0	9	37	2	5	0	18
Mountain	**1**	**3**	**0**	**1**	**1**	**0**	**7**
Arizona	0	6	0	1	0	0	8
Colorado	0	32	0	1	0	0	26
Idaho	146	0	0	36	0	0	13
Montana	7	21	0	49	0	0	13
Nevada	0	0	0	0	0	0	3
New Mexico	0	20	0	2	0	0	89
Utah	0	1	0	3	0	0	42
Wyoming	3	1	0	24	1	0	39
Pacific Contiguous	**0**	**20**	**0**	**2**	**2**	**0**	**2**
California	0	17	0	1	2	0	5
Oregon	0	12,256	0	22	0	0	5
Washington	0	52	0	18	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**48**	**0**	**0**	**29**
Alaska	55	4	0	48	0	0	30
Hawaii	0	1	0	0	0	0	96
U.S. Total	**0**	**2**	**6**	**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, May 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	41	9	0	0	2
Maine	0	0	0	0	6	0	0	8
Massachusetts	0	0	0	9	6	0	2	5
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	58	9	0	0	23
Vermont	0	0	0	25	13	0	0	11
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	6	0	0	3
New York	0	0	0	18	4	0	2	2
Pennsylvania	0	0	0	25	4	0	0	1
East North Central	**0**	**0**	**0**	**11**	**3**	**0**	**3**	**1**
Illinois	0	0	0	21	3	0	0	1
Indiana	0	0	0	15	5	0	0	1
Michigan	0	0	0	35	5	0	10	1
Ohio	0	0	0	24	4	0	0	1
Wisconsin	0	0	0	64	7	0	50	3
West North Central	**0**	**0**	**0**	**9**	**2**	**0**	**5**	**1**
Iowa	0	0	0	134	3	0	0	2
Kansas	0	0	0	0	2	0	0	3
Minnesota	0	0	0	9	4	0	4	4
Missouri	0	0	0	36	6	0	0	1
Nebraska	0	0	0	55	5	0	0	4
North Dakota	0	0	0	0	4	0	53	2
South Dakota	0	0	0	217	8	0	0	10
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	32	31	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	6	4	0	28	2
Maryland	0	0	0	17	8	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	48	5	0	0	1
Virginia	0	0	0	18	6	0	0	2
West Virginia	0	0	0	0	7	0	0	1
East South Central	**0**	**0**	**0**	**16**	**4**	**0**	**0**	**1**
Alabama	0	0	0	23	5	0	0	1
Kentucky	0	0	0	0	20	0	0	2
Mississippi	0	0	0	84	6	0	0	2
Tennessee	0	0	0	23	8	0	0	1
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**4**	**1**
Arkansas	0	0	0	17	7	0	0	3
Louisiana	0	0	0	0	6	0	5	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	6	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	1
Idaho	0	23	0	12	6	0	0	10
Montana	0	0	0	0	9	0	0	7
Nevada	0	6	0	3	3	0	0	1
New Mexico	0	0	0	8	4	0	0	1
Utah	0	10	0	7	5	0	0	2
Wyoming	0	0	0	0	7	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	2
Oregon	0	14	0	21	4	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**14**	**0**	**16**	**8**	**0**	**0**	**6**
Alaska	0	0	0	0	22	0	0	19
Hawaii	0	14	0	16	9	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**9**	**10**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	49	0	4	0	0	29
Maine	100	74	0	51	0	0	10
Massachusetts	0	7	0	7	0	0	19
New Hampshire	0	6	0	0	0	0	16
Rhode Island	0	199	0	25	0	0	0
Vermont	0	24	0	0	0	0	16
Middle Atlantic	**2**	**17**	**81**	**3**	**34**	**0**	**2**
New Jersey	0	57	0	7	0	0	81
New York	0	24	0	4	0	0	2
Pennsylvania	3	19	100	3	52	0	11
East North Central	**0**	**3**	**20**	**3**	**10**	**0**	**17**
Illinois	0	5	0	7	0	0	51
Indiana	0	3	0	6	18	0	28
Michigan	2	6	0	5	0	0	32
Ohio	1	5	48	2	29	0	25
Wisconsin	1	26	0	14	0	0	26
West North Central	**1**	**7**	**0**	**18**	**0**	**0**	**11**
Iowa	2	9	0	29	0	0	44
Kansas	6	8	0	33	0	0	0
Minnesota	5	38	0	26	0	0	45
Missouri	0	9	0	32	0	0	13
Nebraska	4	87	0	52	0	0	32
North Dakota	0	3	0	72	0	0	26
South Dakota	0	100	0	57	0	0	17
South Atlantic	**1**	**8**	**26**	**1**	**56**	**0**	**6**
Delaware	0	98	0	8	64	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	7	0	1	0	0	35
Georgia	2	27	99	4	0	0	11
Maryland	0	10	0	11	0	0	1
North Carolina	0	26	0	3	0	0	9
South Carolina	0	50	0	5	0	0	13
Virginia	5	11	0	4	0	0	16
West Virginia	1	0	0	21	0	0	16
East South Central	**1**	**7**	**0**	**2**	**24**	**0**	**4**
Alabama	0	41	0	3	41	0	5
Kentucky	2	8	0	2	0	0	10
Mississippi	0	25	0	3	0	0	0
Tennessee	0	0	0	6	0	0	6
West South Central	**0**	**12**	**1**	**2**	**4**	**0**	**7**
Arkansas	0	8	0	8	0	0	10
Louisiana	0	143	0	3	6	0	17
Oklahoma	0	138	0	4	0	0	11
Texas	0	9	37	2	5	0	18
Mountain	**1**	**3**	**0**	**1**	**1**	**0**	**7**
Arizona	0	6	0	1	0	0	8
Colorado	0	32	0	1	0	0	26
Idaho	146	0	0	36	0	0	13
Montana	7	21	0	49	0	0	13
Nevada	0	0	0	0	0	0	3
New Mexico	0	20	0	2	0	0	89
Utah	0	1	0	3	0	0	42
Wyoming	3	1	0	24	1	0	39
Pacific Contiguous	**0**	**20**	**0**	**2**	**2**	**0**	**2**
California	0	17	0	1	2	0	5
Oregon	0	12,256	0	22	0	0	5
Washington	0	52	0	18	0	0	1
Pacific Noncontiguous	**13**	**1**	**0**	**48**	**0**	**0**	**29**
Alaska	55	4	0	48	0	0	30
Hawaii	0	1	0	0	0	0	96
U.S. Total	**0**	**2**	**6**	**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 May 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	41	9	0	0	2
Maine	0	0	0	0	6	0	0	8
Massachusetts	0	0	0	9	6	0	2	5
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	58	9	0	0	23
Vermont	0	0	0	25	13	0	0	11
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	6	0	0	3
New York	0	0	0	18	4	0	2	2
Pennsylvania	0	0	0	25	4	0	0	1
East North Central	**0**	**0**	**0**	**11**	**3**	**0**	**3**	**1**
Illinois	0	0	0	21	3	0	0	1
Indiana	0	0	0	15	5	0	0	1
Michigan	0	0	0	35	5	0	10	1
Ohio	0	0	0	24	4	0	0	1
Wisconsin	0	0	0	64	7	0	50	3
West North Central	**0**	**0**	**0**	**9**	**2**	**0**	**5**	**1**
Iowa	0	0	0	134	3	0	0	2
Kansas	0	0	0	0	2	0	0	3
Minnesota	0	0	0	9	4	0	4	4
Missouri	0	0	0	36	6	0	0	1
Nebraska	0	0	0	55	5	0	0	4
North Dakota	0	0	0	0	4	0	53	2
South Dakota	0	0	0	217	8	0	0	10
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	32	31	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	6	4	0	28	2
Maryland	0	0	0	17	8	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	48	5	0	0	1
Virginia	0	0	0	18	6	0	0	2
West Virginia	0	0	0	0	7	0	0	1
East South Central	**0**	**0**	**0**	**16**	**4**	**0**	**0**	**1**
Alabama	0	0	0	23	5	0	0	1
Kentucky	0	0	0	0	20	0	0	2
Mississippi	0	0	0	84	6	0	0	2
Tennessee	0	0	0	23	8	0	0	1
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**4**	**1**
Arkansas	0	0	0	17	7	0	0	3
Louisiana	0	0	0	0	6	0	5	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	6	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	1
Idaho	0	23	0	12	6	0	0	10
Montana	0	0	0	0	9	0	0	7
Nevada	0	6	0	3	3	0	0	1
New Mexico	0	0	0	8	4	0	0	1
Utah	0	10	0	7	5	0	0	2
Wyoming	0	0	0	0	7	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	2
Oregon	0	14	0	21	4	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**14**	**0**	**16**	**8**	**0**	**0**	**6**
Alaska	0	0	0	0	22	0	0	19
Hawaii	0	14	0	16	9	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**1**	**0**	**1**	**0**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**8**	**0**	**55**	**0**	**0**	**17**
Connecticut	0	34	0	0	0	0	23
Maine	0	0	0	0	0	0	0
Massachusetts	0	27	0	103	0	0	39
New Hampshire	0	4	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	25	0	0	0	0	25
Middle Atlantic	**0**	**40**	**0**	**11**	**0**	**0**	**1**
New Jersey	0	358	0	0	0	0	0
New York	0	40	0	11	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**4**	**0**	**7**	**0**	**0**	**18**
Illinois	0	40	0	47	0	0	143
Indiana	0	3	0	7	0	0	28
Michigan	2	7	0	18	0	0	34
Ohio	2	9	0	6	0	0	35
Wisconsin	0	26	0	17	0	0	27
West North Central	**1**	**7**	**0**	**20**	**0**	**0**	**11**
Iowa	2	9	0	33	0	0	44
Kansas	6	8	0	33	0	0	0
Minnesota	5	49	0	30	0	0	68
Missouri	0	9	0	38	0	0	13
Nebraska	5	87	0	52	0	0	32
North Dakota	0	3	0	73	0	0	26
South Dakota	0	101	0	57	0	0	17
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	7	0	1	0	0	35
Georgia	2	17	0	4	0	0	11
Maryland	0	40	0	0	0	0	0
North Carolina	0	27	0	3	0	0	9
South Carolina	0	53	0	6	0	0	12
Virginia	6	12	0	6	0	0	16
West Virginia	0	0	0	0	0	0	28
East South Central	**1**	**4**	**0**	**3**	**0**	**0**	**4**
Alabama	0	10	0	6	0	0	5
Kentucky	2	8	0	2	0	0	10
Mississippi	0	41	0	4	0	0	0
Tennessee	0	0	0	7	0	0	6
West South Central	**0**	**25**	**0**	**4**	**0**	**0**	**7**
Arkansas	0	18	0	31	0	0	10
Louisiana	0	143	0	5	0	0	0
Oklahoma	0	288	0	7	0	0	11
Texas	0	16	0	8	0	0	18
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**7**
Arizona	0	6	0	1	0	0	8
Colorado	0	32	0	1	0	0	28
Idaho	0	0	0	47	0	0	14
Montana	0	889	0	55	0	0	13
Nevada	0	0	0	0	0	0	0
New Mexico	0	20	0	3	0	0	89
Utah	0	1	0	4	0	0	43
Wyoming	3	1	0	121	0	0	40
Pacific Contiguous	**0**	**24**	**0**	**4**	**0**	**0**	**2**
California	0	22	0	1	0	0	4
Oregon	0	12,256	0	26	0	0	5
Washington	0	706	0	21	0	0	1
Pacific Noncontiguous	**81**	**1**	**0**	**51**	**0**	**0**	**30**
Alaska	81	5	0	51	0	0	31
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, May 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**	**35**	**8**	**0**	**0**	**13**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	51	37	0	0	47
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	45	14	0	0	15
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**3**
New Jersey	0	0	0	27	27	0	0	6
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**21**	**7**	**0**	**2**	**1**
Illinois	0	0	0	0	25	0	0	9
Indiana	0	0	0	28	19	0	0	1
Michigan	0	0	0	35	9	0	0	2
Ohio	0	0	0	69	58	0	0	2
Wisconsin	0	0	0	0	11	0	26	4
West North Central	**0**	**0**	**0**	**98**	**3**	**0**	**9**	**1**
Iowa	0	0	0	134	3	0	0	3
Kansas	0	0	0	0	7	0	0	4
Minnesota	0	0	0	143	8	0	0	4
Missouri	0	0	0	0	61	0	0	1
Nebraska	0	0	0	0	20	0	0	5
North Dakota	0	0	0	0	7	0	53	3
South Dakota	0	0	0	0	15	0	0	12
South Atlantic	**0**	**0**	**0**	**6**	**6**	**0**	**0**	**0**
Delaware	0	0	0	87	87	0	0	35
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	74	74	0	0	68
North Carolina	0	0	0	14	14	0	0	1
South Carolina	0	0	0	0	10	0	0	1
Virginia	0	0	0	28	15	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**39**	**32**	**0**	**0**	**1**
Alabama	0	0	0	67	67	0	0	1
Kentucky	0	0	0	0	37	0	0	2
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**67**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	217	217	0	0	5
Louisiana	0	0	0	0	0	0	0	3
Oklahoma	0	0	0	0	9	0	0	4
Texas	0	0	0	125	25	0	0	3
Mountain	**0**	**14**	**0**	**8**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	29	0	0	2
Idaho	0	0	0	0	110	0	0	13
Montana	0	0	0	0	25	0	0	12
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	19	19	0	0	1
Utah	0	14	0	0	14	0	0	2
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	3
Oregon	0	0	0	89	5	0	0	5
Washington	0	0	0	0	6	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**18**	**0**	**0**	**9**
Alaska	0	0	0	0	36	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**4**	**2**	**0**	**3**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**8**	**0**	**55**	**0**	**0**	**17**
Connecticut	0	34	0	0	0	0	23
Maine	0	0	0	0	0	0	0
Massachusetts	0	27	0	103	0	0	39
New Hampshire	0	4	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	25	0	0	0	0	25
Middle Atlantic	**0**	**40**	**0**	**11**	**0**	**0**	**1**
New Jersey	0	358	0	0	0	0	0
New York	0	40	0	11	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**4**	**0**	**7**	**0**	**0**	**18**
Illinois	0	40	0	47	0	0	143
Indiana	0	3	0	7	0	0	28
Michigan	2	7	0	18	0	0	34
Ohio	2	9	0	6	0	0	35
Wisconsin	0	26	0	17	0	0	27
West North Central	**1**	**7**	**0**	**20**	**0**	**0**	**11**
Iowa	2	9	0	33	0	0	44
Kansas	6	8	0	33	0	0	0
Minnesota	5	49	0	30	0	0	68
Missouri	0	9	0	38	0	0	13
Nebraska	5	87	0	52	0	0	32
North Dakota	0	3	0	73	0	0	26
South Dakota	0	101	0	57	0	0	17
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	7	0	1	0	0	35
Georgia	2	17	0	4	0	0	11
Maryland	0	40	0	0	0	0	0
North Carolina	0	27	0	3	0	0	9
South Carolina	0	53	0	6	0	0	12
Virginia	6	12	0	6	0	0	16
West Virginia	0	0	0	0	0	0	28
East South Central	**1**	**4**	**0**	**3**	**0**	**0**	**4**
Alabama	0	10	0	6	0	0	5
Kentucky	2	8	0	2	0	0	10
Mississippi	0	41	0	4	0	0	0
Tennessee	0	0	0	7	0	0	6
West South Central	**0**	**25**	**0**	**4**	**0**	**0**	**7**
Arkansas	0	18	0	31	0	0	10
Louisiana	0	143	0	5	0	0	0
Oklahoma	0	288	0	7	0	0	11
Texas	0	16	0	8	0	0	18
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**7**
Arizona	0	6	0	1	0	0	8
Colorado	0	32	0	1	0	0	28
Idaho	0	0	0	47	0	0	14
Montana	0	889	0	55	0	0	13
Nevada	0	0	0	0	0	0	0
New Mexico	0	20	0	3	0	0	89
Utah	0	1	0	4	0	0	43
Wyoming	3	1	0	121	0	0	40
Pacific Contiguous	**0**	**24**	**0**	**4**	**0**	**0**	**2**
California	0	22	0	1	0	0	4
Oregon	0	12,256	0	26	0	0	5
Washington	0	706	0	21	0	0	1
Pacific Noncontiguous	**81**	**1**	**0**	**51**	**0**	**0**	**30**
Alaska	81	5	0	51	0	0	31
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through May 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**	**35**	**8**	**0**	**0**	**13**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	51	37	0	0	47
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	45	14	0	0	15
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**3**
New Jersey	0	0	0	27	27	0	0	6
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**21**	**7**	**0**	**2**	**1**
Illinois	0	0	0	0	25	0	0	9
Indiana	0	0	0	28	19	0	0	1
Michigan	0	0	0	35	9	0	0	2
Ohio	0	0	0	69	58	0	0	2
Wisconsin	0	0	0	0	11	0	26	4
West North Central	**0**	**0**	**0**	**98**	**3**	**0**	**9**	**1**
Iowa	0	0	0	134	3	0	0	3
Kansas	0	0	0	0	7	0	0	4
Minnesota	0	0	0	143	8	0	0	4
Missouri	0	0	0	0	61	0	0	1
Nebraska	0	0	0	0	20	0	0	5
North Dakota	0	0	0	0	7	0	53	3
South Dakota	0	0	0	0	15	0	0	12
South Atlantic	**0**	**0**	**0**	**6**	**6**	**0**	**0**	**0**
Delaware	0	0	0	87	87	0	0	35
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	74	74	0	0	68
North Carolina	0	0	0	14	14	0	0	1
South Carolina	0	0	0	0	10	0	0	1
Virginia	0	0	0	28	15	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**39**	**32**	**0**	**0**	**1**
Alabama	0	0	0	67	67	0	0	1
Kentucky	0	0	0	0	37	0	0	2
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**67**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	217	217	0	0	5
Louisiana	0	0	0	0	0	0	0	3
Oklahoma	0	0	0	0	9	0	0	4
Texas	0	0	0	125	25	0	0	3
Mountain	**0**	**14**	**0**	**8**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	29	0	0	2
Idaho	0	0	0	0	110	0	0	13
Montana	0	0	0	0	25	0	0	12
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	19	19	0	0	1
Utah	0	14	0	0	14	0	0	2
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	3
Oregon	0	0	0	89	5	0	0	5
Washington	0	0	0	0	6	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**18**	**0**	**0**	**9**
Alaska	0	0	0	0	36	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**4**	**2**	**0**	**3**	**0**

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

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

Independent Power Producers by Census Division and State, May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	53	0	4	0	0	32
Maine	0	80	0	62	0	0	11
Massachusetts	0	7	0	7	0	0	22
New Hampshire	0	1,328	0	0	0	0	19
Rhode Island	0	203	0	25	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**19**	**0**	**3**	**0**	**0**	**10**
New Jersey	0	58	0	7	0	0	81
New York	0	44	0	4	0	0	9
Pennsylvania	3	19	0	2	0	0	12
East North Central	**0**	**4**	**48**	**2**	**12**	**0**	**42**
Illinois	0	4	0	7	0	0	44
Indiana	0	0	0	33	0	0	0
Michigan	0	0	0	2	0	0	130
Ohio	0	6	48	2	39	0	37
Wisconsin	0	0	0	0	0	0	127
West North Central	**0**	**13**	**0**	**41**	**0**	**0**	**80**
Iowa	0	54	0	2,187	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	11	0	44	0	0	93
Missouri	0	0	0	66	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**5**	**19**	**0**	**4**	**0**	**0**	**4**
Delaware	0	98	0	8	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	93	0	16	0	0	0
Georgia	0	224	0	11	0	0	100
Maryland	0	11	0	12	0	0	1
North Carolina	0	79	0	11	0	0	61
South Carolina	0	0	0	5	0	0	54
Virginia	0	20	0	2	0	0	40
West Virginia	9	0	0	62	0	0	29
East South Central	**0**	**36**	**0**	**3**	**0**	**0**	**187**
Alabama	0	47	0	3	0	0	0
Kentucky	0	0	0	0	0	0	187
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**5**	**0**	**2**	**4**	**0**	**16**
Arkansas	0	0	0	2	0	0	75
Louisiana	0	0	0	6	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	9	0	2	4	0	0
Mountain	**6**	**7**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	7	0	0	75
Idaho	0	0	0	58	0	0	43
Montana	7	11	0	46	0	0	105
Nevada	0	0	0	0	0	0	118
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**	**15**	**0**	**3**	**0**	**0**	**22**
California	0	0	0	2	0	0	25
Oregon	0	0	0	26	0	0	76
Washington	0	79	0	31	0	0	68
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	86	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**4**	**31**	**1**	**7**	**0**	**6**

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

Independent Power Producers by Census Division and State, May 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**9**	**5**	**0**	**1**	**3**
Connecticut	0	0	0	44	9	0	0	2
Maine	0	0	0	0	7	0	0	10
Massachusetts	0	0	0	9	6	0	2	5
New Hampshire	0	0	0	0	14	0	0	2
Rhode Island	0	0	0	58	10	0	0	23
Vermont	0	0	0	29	22	0	0	16
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	9	7	0	0	3
New York	0	0	0	19	4	0	0	2
Pennsylvania	0	0	0	28	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**3**	**0**	**18**	**0**
Illinois	0	0	0	22	3	0	0	0
Indiana	0	0	0	17	5	0	0	4
Michigan	0	0	0	0	6	0	33	2
Ohio	0	0	0	27	4	0	0	1
Wisconsin	0	0	0	64	13	0	0	2
West North Central	**0**	**0**	**0**	**9**	**2**	**0**	**0**	**3**
Iowa	0	0	0	0	5	0	0	3
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	9	4	0	0	6
Missouri	0	0	0	38	7	0	0	26
Nebraska	0	0	0	55	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	217	10	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**2**
Delaware	0	0	0	35	30	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	28	4	0	1	10
Georgia	0	0	0	6	6	0	0	9
Maryland	0	0	0	17	9	0	0	2
North Carolina	0	0	0	4	3	0	0	5
South Carolina	0	0	0	48	22	0	0	5
Virginia	0	0	0	24	13	0	0	2
West Virginia	0	0	0	0	7	0	0	8
East South Central	**0**	**0**	**0**	**17**	**13**	**0**	**0**	**2**
Alabama	0	0	0	25	18	0	0	3
Kentucky	0	0	0	0	0	0	0	7
Mississippi	0	0	0	84	67	0	0	0
Tennessee	0	0	0	23	20	0	0	19
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	23	0	0	2
Louisiana	0	0	0	0	41	0	0	3
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**6**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	3
Idaho	0	23	0	12	7	0	0	13
Montana	0	0	0	0	9	0	0	6
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	4	0	0	3
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	9	0	0	7
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	2	0	2	2	0	0	2
Oregon	0	15	0	22	5	0	0	6
Washington	0	0	0	0	7	0	0	12
Pacific Noncontiguous	**0**	**14**	**0**	**20**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	50	0	0	56
Hawaii	0	14	0	20	11	0	0	3
U.S. Total	**0**	**3**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**13**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	53	0	4	0	0	32
Maine	0	80	0	62	0	0	11
Massachusetts	0	7	0	7	0	0	22
New Hampshire	0	1,328	0	0	0	0	19
Rhode Island	0	203	0	25	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**19**	**0**	**3**	**0**	**0**	**10**
New Jersey	0	58	0	7	0	0	81
New York	0	44	0	4	0	0	9
Pennsylvania	3	19	0	2	0	0	12
East North Central	**0**	**4**	**48**	**2**	**12**	**0**	**42**
Illinois	0	4	0	7	0	0	44
Indiana	0	0	0	33	0	0	0
Michigan	0	0	0	2	0	0	130
Ohio	0	6	48	2	39	0	37
Wisconsin	0	0	0	0	0	0	127
West North Central	**0**	**13**	**0**	**41**	**0**	**0**	**80**
Iowa	0	54	0	2,187	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	11	0	44	0	0	93
Missouri	0	0	0	66	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**5**	**19**	**0**	**4**	**0**	**0**	**4**
Delaware	0	98	0	8	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	93	0	16	0	0	0
Georgia	0	224	0	11	0	0	100
Maryland	0	11	0	12	0	0	1
North Carolina	0	79	0	11	0	0	61
South Carolina	0	0	0	5	0	0	54
Virginia	0	20	0	2	0	0	40
West Virginia	9	0	0	62	0	0	29
East South Central	**0**	**36**	**0**	**3**	**0**	**0**	**187**
Alabama	0	47	0	3	0	0	0
Kentucky	0	0	0	0	0	0	187
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**5**	**0**	**2**	**4**	**0**	**16**
Arkansas	0	0	0	2	0	0	75
Louisiana	0	0	0	6	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	9	0	2	4	0	0
Mountain	**6**	**7**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	7	0	0	75
Idaho	0	0	0	58	0	0	43
Montana	7	11	0	46	0	0	105
Nevada	0	0	0	0	0	0	118
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**	**15**	**0**	**3**	**0**	**0**	**22**
California	0	0	0	2	0	0	25
Oregon	0	0	0	26	0	0	76
Washington	0	79	0	31	0	0	68
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	86	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**4**	**31**	**1**	**7**	**0**	**6**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through May 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**9**	**5**	**0**	**1**	**3**
Connecticut	0	0	0	44	9	0	0	2
Maine	0	0	0	0	7	0	0	10
Massachusetts	0	0	0	9	6	0	2	5
New Hampshire	0	0	0	0	14	0	0	2
Rhode Island	0	0	0	58	10	0	0	23
Vermont	0	0	0	29	22	0	0	16
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	9	7	0	0	3
New York	0	0	0	19	4	0	0	2
Pennsylvania	0	0	0	28	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**3**	**0**	**18**	**0**
Illinois	0	0	0	22	3	0	0	0
Indiana	0	0	0	17	5	0	0	4
Michigan	0	0	0	0	6	0	33	2
Ohio	0	0	0	27	4	0	0	1
Wisconsin	0	0	0	64	13	0	0	2
West North Central	**0**	**0**	**0**	**9**	**2**	**0**	**0**	**3**
Iowa	0	0	0	0	5	0	0	3
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	9	4	0	0	6
Missouri	0	0	0	38	7	0	0	26
Nebraska	0	0	0	55	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	217	10	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**2**
Delaware	0	0	0	35	30	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	28	4	0	1	10
Georgia	0	0	0	6	6	0	0	9
Maryland	0	0	0	17	9	0	0	2
North Carolina	0	0	0	4	3	0	0	5
South Carolina	0	0	0	48	22	0	0	5
Virginia	0	0	0	24	13	0	0	2
West Virginia	0	0	0	0	7	0	0	8
East South Central	**0**	**0**	**0**	**17**	**13**	**0**	**0**	**2**
Alabama	0	0	0	25	18	0	0	3
Kentucky	0	0	0	0	0	0	0	7
Mississippi	0	0	0	84	67	0	0	0
Tennessee	0	0	0	23	20	0	0	19
West South Central	**0**	**0**	**0**	**4**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	23	0	0	2
Louisiana	0	0	0	0	41	0	0	3
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**6**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	3
Idaho	0	23	0	12	7	0	0	13
Montana	0	0	0	0	9	0	0	6
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	4	0	0	3
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	9	0	0	7
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	2	0	2	2	0	0	2
Oregon	0	15	0	22	5	0	0	6
Washington	0	0	0	0	7	0	0	12
Pacific Noncontiguous	**0**	**14**	**0**	**20**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	50	0	0	56
Hawaii	0	14	0	20	11	0	0	3
U.S. Total	**0**	**3**	**0**	**2**	**1**	**0**	**1**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**41**	**0**	**37**	**0**	**0**	**0**
Connecticut	0	1,367	0	72	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	73	0	52	0	0	0
New Hampshire	0	2	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**	**52**	**0**	**30**	**0**	**0**	**0**
New Jersey	0	0	0	35	0	0	0
New York	0	57	0	43	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**101**	**2**	**0**	**14**	**0**	**0**	**0**
Illinois	134	0	0	51	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	16	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	11	0	0	0
West North Central	**0**	**22**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	5	0	0	0
Minnesota	0	28	0	11	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	720	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	19	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**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	52	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	27	0	0	0
Mountain	**0**	**0**	**0**	**12**	**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	44	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**26**	**0**	**5**	**0**	**0**	**0**
California	0	41	0	5	0	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**87**	**5**	**0**	**0**	**0**	**0**	**154**
Alaska	87	9	0	0	0	0	154
Hawaii	0	0	0	0	0	0	0
U.S. Total	**39**	**18**	**0**	**7**	**0**	**0**	**89**

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, May 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**	**63**	**2**	**0**	**0**	**22**
Connecticut	0	0	0	0	0	0	0	72
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	63	9	0	0	43
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**18**	**8**	**0**	**4**	**11**
New Jersey	0	0	0	18	12	0	0	9
New York	0	0	0	109	15	0	9	21
Pennsylvania	0	0	0	85	19	0	0	9
East North Central	**0**	**0**	**0**	**124**	**9**	**0**	**0**	**10**
Illinois	0	0	0	0	161	0	0	47
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	9
Ohio	0	0	0	124	35	0	0	3
Wisconsin	0	0	0	0	51	0	0	25
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**54**	**7**
Iowa	0	0	0	0	77	0	0	11
Minnesota	0	0	0	0	60	0	54	22
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	720
South Atlantic	**0**	**0**	**0**	**23**	**14**	**0**	**0**	**5**
Delaware	0	0	0	162	51	0	0	51
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	124	84	0	0	48
Georgia	0	0	0	119	119	0	0	93
Maryland	0	0	0	94	88	0	0	4
North Carolina	0	0	0	24	28	0	0	20
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**111**	**111**	**0**	**0**	**8**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	111	111	0	0	8
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	52
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	25
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**10**
Arizona	0	0	0	54	54	0	0	9
Colorado	0	0	0	55	54	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	34	34	0	0	23
New Mexico	0	0	0	0	212	0	0	43
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**23**	**16**	**0**	**0**	**6**
California	0	0	0	23	16	0	0	6
Oregon	0	0	0	0	114	0	0	51
Washington	0	0	0	0	165	0	0	72
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**26**
Alaska	0	0	0	0	0	0	0	72
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**6**	**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 May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**41**	**0**	**37**	**0**	**0**	**0**
Connecticut	0	1,367	0	72	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	73	0	52	0	0	0
New Hampshire	0	2	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**	**52**	**0**	**30**	**0**	**0**	**0**
New Jersey	0	0	0	35	0	0	0
New York	0	57	0	43	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**101**	**2**	**0**	**14**	**0**	**0**	**0**
Illinois	134	0	0	51	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	16	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	11	0	0	0
West North Central	**0**	**22**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	5	0	0	0
Minnesota	0	28	0	11	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	720	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	19	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**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	52	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	27	0	0	0
Mountain	**0**	**0**	**0**	**12**	**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	44	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**26**	**0**	**5**	**0**	**0**	**0**
California	0	41	0	5	0	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**87**	**5**	**0**	**0**	**0**	**0**	**154**
Alaska	87	9	0	0	0	0	154
Hawaii	0	0	0	0	0	0	0
U.S. Total	**39**	**18**	**0**	**7**	**0**	**0**	**89**

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 May 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**	**63**	**2**	**0**	**0**	**22**
Connecticut	0	0	0	0	0	0	0	72
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	63	9	0	0	43
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**18**	**8**	**0**	**4**	**11**
New Jersey	0	0	0	18	12	0	0	9
New York	0	0	0	109	15	0	9	21
Pennsylvania	0	0	0	85	19	0	0	9
East North Central	**0**	**0**	**0**	**124**	**9**	**0**	**0**	**10**
Illinois	0	0	0	0	161	0	0	47
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	9
Ohio	0	0	0	124	35	0	0	3
Wisconsin	0	0	0	0	51	0	0	25
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**54**	**7**
Iowa	0	0	0	0	77	0	0	11
Minnesota	0	0	0	0	60	0	54	22
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	720
South Atlantic	**0**	**0**	**0**	**23**	**14**	**0**	**0**	**5**
Delaware	0	0	0	162	51	0	0	51
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	124	84	0	0	48
Georgia	0	0	0	119	119	0	0	93
Maryland	0	0	0	94	88	0	0	4
North Carolina	0	0	0	24	28	0	0	20
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**111**	**111**	**0**	**0**	**8**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	111	111	0	0	8
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	52
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	25
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**10**
Arizona	0	0	0	54	54	0	0	9
Colorado	0	0	0	55	54	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	34	34	0	0	23
New Mexico	0	0	0	0	212	0	0	43
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**23**	**16**	**0**	**0**	**6**
California	0	0	0	23	16	0	0	6
Oregon	0	0	0	0	114	0	0	51
Washington	0	0	0	0	165	0	0	72
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**26**
Alaska	0	0	0	0	0	0	0	72
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**6**	**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, May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**182**	**65**	**0**	**22**	**0**	**0**	**24**
Connecticut	0	0	0	22	0	0	0
Maine	182	108	0	69	0	0	25
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**23**	**15**	**81**	**19**	**34**	**0**	**23**
New Jersey	0	0	0	21	0	0	0
New York	0	11	0	19	0	0	23
Pennsylvania	53	185	100	29	51	0	0
East North Central	**12**	**11**	**0**	**12**	**15**	**0**	**70**
Illinois	9	0	0	41	0	0	0
Indiana	0	1	0	15	18	0	0
Michigan	118	70	0	29	0	0	145
Ohio	144	0	0	14	0	0	0
Wisconsin	41	301	0	26	0	0	78
West North Central	**6**	**0**	**0**	**5**	**0**	**0**	**52**
Iowa	6	0	0	0	0	0	0
Kansas	0	0	0	130	0	0	0
Minnesota	19	0	0	0	0	0	52
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	123	0	0	0	0	0	0
South Atlantic	**13**	**54**	**99**	**9**	**56**	**0**	**23**
Delaware	0	0	0	36	64	0	0
Florida	32	133	0	17	0	0	0
Georgia	41	87	99	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	8	139	0	62	0	0	373
South Carolina	0	0	0	0	0	0	0
Virginia	0	160	0	9	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**4**	**67**	**0**	**11**	**24**	**0**	**0**
Alabama	81	101	0	20	41	0	0
Kentucky	0	0	0	20	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**81**	**11**	**2**	**5**	**0**	**0**
Arkansas	0	211	0	27	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	37	3	8	0	0
Mountain	**23**	**0**	**0**	**5**	**1**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	146	0	0	58	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	33	0	0	10	1	0	0
Pacific Contiguous	**0**	**52**	**0**	**2**	**2**	**0**	**0**
California	0	48	0	1	2	0	0
Oregon	0	0	0	99	0	0	0
Washington	0	56	0	98	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**144**
Alaska	0	20	0	0	0	0	0
Hawaii	0	0	0	0	0	0	144
U.S. Total	**5**	**11**	**29**	**2**	**7**	**0**	**16**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, May 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	22
Maine	0	0	0	0	9	0	0	13
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**58**	**10**	**0**	**0**	**11**
New Jersey	0	0	0	89	89	0	0	10
New York	0	0	0	0	23	0	0	8
Pennsylvania	0	0	0	73	11	0	0	17
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**4**	**6**
Illinois	0	0	0	0	0	0	0	9
Indiana	0	0	0	0	94	0	0	12
Michigan	0	0	0	0	12	0	0	14
Ohio	0	0	0	0	17	0	0	12
Wisconsin	0	0	0	0	13	0	75	16
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	5
Kansas	0	0	0	0	0	0	0	102
Minnesota	0	0	0	0	0	0	0	9
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	10
North Dakota	0	0	0	0	0	0	0	78
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	230	0	0	31
Florida	0	0	0	0	8	0	0	5
Georgia	0	0	0	0	6	0	28	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	3	0	0	5
South Carolina	0	0	0	0	4	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	13
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	24	0	0	16
Mississippi	0	0	0	0	6	0	0	8
Tennessee	0	0	0	0	9	0	0	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**2**
Arkansas	0	0	0	0	7	0	0	7
Louisiana	0	0	0	0	6	0	5	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	7	3
Mountain	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	7	0	0	16
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**59**	**9**	**0**	**4**	**2**
California	0	0	0	59	16	0	4	1
Oregon	0	0	0	0	20	0	0	21
Washington	0	0	0	0	11	0	0	11
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**141**	**0**	**0**	**24**
Alaska	0	0	0	0	141	0	0	16
Hawaii	0	0	0	0	0	0	0	28
U.S. Total	**0**	**0**	**0**	**40**	**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 May 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**182**	**65**	**0**	**22**	**0**	**0**	**24**
Connecticut	0	0	0	22	0	0	0
Maine	182	108	0	69	0	0	25
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**23**	**15**	**81**	**19**	**34**	**0**	**23**
New Jersey	0	0	0	21	0	0	0
New York	0	11	0	19	0	0	23
Pennsylvania	53	185	100	29	51	0	0
East North Central	**12**	**11**	**0**	**12**	**15**	**0**	**70**
Illinois	9	0	0	41	0	0	0
Indiana	0	1	0	15	18	0	0
Michigan	118	70	0	29	0	0	145
Ohio	144	0	0	14	0	0	0
Wisconsin	41	301	0	26	0	0	78
West North Central	**6**	**0**	**0**	**5**	**0**	**0**	**52**
Iowa	6	0	0	0	0	0	0
Kansas	0	0	0	130	0	0	0
Minnesota	19	0	0	0	0	0	52
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	123	0	0	0	0	0	0
South Atlantic	**13**	**54**	**99**	**9**	**56**	**0**	**23**
Delaware	0	0	0	36	64	0	0
Florida	32	133	0	17	0	0	0
Georgia	41	87	99	21	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	8	139	0	62	0	0	373
South Carolina	0	0	0	0	0	0	0
Virginia	0	160	0	9	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**4**	**67**	**0**	**11**	**24**	**0**	**0**
Alabama	81	101	0	20	41	0	0
Kentucky	0	0	0	20	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**81**	**11**	**2**	**5**	**0**	**0**
Arkansas	0	211	0	27	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	37	3	8	0	0
Mountain	**23**	**0**	**0**	**5**	**1**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	146	0	0	58	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	33	0	0	10	1	0	0
Pacific Contiguous	**0**	**52**	**0**	**2**	**2**	**0**	**0**
California	0	48	0	1	2	0	0
Oregon	0	0	0	99	0	0	0
Washington	0	56	0	98	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**144**
Alaska	0	20	0	0	0	0	0
Hawaii	0	0	0	0	0	0	144
U.S. Total	**5**	**11**	**29**	**2**	**7**	**0**	**16**

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

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

Industrial Sector by Census Division and State, Year-to-Date through May 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	22
Maine	0	0	0	0	9	0	0	13
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**58**	**10**	**0**	**0**	**11**
New Jersey	0	0	0	89	89	0	0	10
New York	0	0	0	0	23	0	0	8
Pennsylvania	0	0	0	73	11	0	0	17
East North Central	**0**	**0**	**0**	**0**	**9**	**0**	**4**	**6**
Illinois	0	0	0	0	0	0	0	9
Indiana	0	0	0	0	94	0	0	12
Michigan	0	0	0	0	12	0	0	14
Ohio	0	0	0	0	17	0	0	12
Wisconsin	0	0	0	0	13	0	75	16
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	5
Kansas	0	0	0	0	0	0	0	102
Minnesota	0	0	0	0	0	0	0	9
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	10
North Dakota	0	0	0	0	0	0	0	78
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	230	0	0	31
Florida	0	0	0	0	8	0	0	5
Georgia	0	0	0	0	6	0	28	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	3	0	0	5
South Carolina	0	0	0	0	4	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	13
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	24	0	0	16
Mississippi	0	0	0	0	6	0	0	8
Tennessee	0	0	0	0	9	0	0	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**2**
Arkansas	0	0	0	0	7	0	0	7
Louisiana	0	0	0	0	6	0	5	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	7	3
Mountain	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	7	0	0	16
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**59**	**9**	**0**	**4**	**2**
California	0	0	0	59	16	0	4	1
Oregon	0	0	0	0	20	0	0	21
Washington	0	0	0	0	11	0	0	11
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**141**	**0**	**0**	**24**
Alaska	0	0	0	0	141	0	0	16
Hawaii	0	0	0	0	0	0	0	28
U.S. Total	**0**	**0**	**0**	**40**	**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, May 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**3**	**1**	**4**	**0**	**1**
Connecticut	3	1	6	0	2
Maine	4	1	2	0	2
Massachusetts	7	1	9	0	3
New Hampshire	5	1	5	0	2
Rhode Island	0	0	0	0	0
Vermont	19	3	8	0	7
Middle Atlantic	**2**	**0**	**1**	**0**	**1**
New Jersey	2	0	3	0	1
New York	2	0	3	0	1
Pennsylvania	3	0	1	0	1
East North Central	**3**	**1**	**1**	**0**	**1**
Illinois	5	1	2	0	2
Indiana	8	2	2	0	3
Michigan	0	2	3	0	1
Ohio	5	1	2	0	2
Wisconsin	1	4	5	0	2
West North Central	**3**	**2**	**3**	**0**	**1**
Iowa	2	8	5	0	3
Kansas	2	1	6	0	2
Minnesota	1	5	6	0	3
Missouri	8	1	7	0	4
Nebraska	2	8	8	0	4
North Dakota	2	5	8	0	4
South Dakota	2	11	11	0	5
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	10	2	9	0	4
District of Columbia	0	0	0	0	0
Florida	0	0	4	0	0
Georgia	1	1	3	0	1
Maryland	3	0	4	0	1
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	3	0	1
West Virginia	2	1	0	0	1
East South Central	**4**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	10	2	4	0	4
Mississippi	2	1	4	0	2
Tennessee	8	2	4	0	3
West South Central	**1**	**0**	**1**	**0**	**1**
Arkansas	2	1	3	0	2
Louisiana	1	1	1	0	1
Oklahoma	2	1	4	0	1
Texas	2	0	1	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	3	3	0	1
Colorado	1	5	5	0	3
Idaho	1	5	3	0	2
Montana	2	9	8	0	4
Nevada	0	3	1	0	1
New Mexico	2	8	7	0	4
Utah	1	6	2	0	2
Wyoming	2	8	3	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	5	8	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	**1**	**5**	**3**	**0**	**2**
Alaska	2	11	13	0	6
Hawaii	0	0	0	0	0
U.S. Total	**1**	**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 May 2017

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**2**	**0**	**3**	**0**	**1**
Connecticut	2	1	3	0	1
Maine	3	1	2	0	2
Massachusetts	4	1	5	0	2
New Hampshire	3	1	4	0	2
Rhode Island	0	0	0	0	0
Vermont	14	3	7	0	6
Middle Atlantic	**1**	**0**	**1**	**0**	**0**
New Jersey	2	0	3	0	1
New York	1	0	2	0	0
Pennsylvania	2	0	1	0	1
East North Central	**2**	**1**	**2**	**0**	**1**
Illinois	4	1	3	0	2
Indiana	7	2	2	0	3
Michigan	0	1	4	0	1
Ohio	5	1	3	0	2
Wisconsin	1	3	6	0	2
West North Central	**2**	**2**	**3**	**0**	**1**
Iowa	2	6	7	0	3
Kansas	1	1	5	0	1
Minnesota	1	3	7	0	2
Missouri	7	1	5	0	3
Nebraska	2	7	11	0	4
North Dakota	2	4	8	0	4
South Dakota	2	8	13	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	8	2	11	0	4
District of Columbia	0	0	0	0	0
Florida	0	1	5	0	0
Georgia	1	1	4	0	1
Maryland	3	0	4	0	1
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	2	1	0	0	1
East South Central	**3**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	9	2	5	0	4
Mississippi	2	2	5	0	2
Tennessee	7	2	5	0	3
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	5	0	1
Texas	1	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	8	0	3
Idaho	1	4	3	0	2
Montana	2	6	19	0	4
Nevada	0	4	2	0	1
New Mexico	2	8	12	0	5
Utah	1	6	3	0	3
Wyoming	2	6	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	3	10	0	2
Washington	1	3	9	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	2	7	12	0	4
Hawaii	0	0	0	0	0
U.S. Total	**1**	**0**	**1**	**0**	**0**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	1	1	2	0	0
Maine	1	1	2	0	0
Massachusetts	1	1	4	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	5	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	1	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	2	1	1	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	2	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	4	0	0
Georgia	1	1	3	0	1
Maryland	1	0	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	2	0	1
Virginia	0	0	3	0	0
West Virginia	1	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	3	2	3	0	2
Mississippi	1	2	4	0	1
Tennessee	2	2	4	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	2	0	0
Mountain	**1**	**1**	**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	2	6	9	0	3
Utah	2	4	3	0	2
Wyoming	2	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**

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

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

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

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

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

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Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2017

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

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2017

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2017	4	04/03/2017 11:00 AM	04/03/2017 8:00 PM	9 Hours, 0 Minutes	Southern Company	SERC	Alabama, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	290	86330
2017	4	04/06/2017 7:00 PM	ongoing	ongoing	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	100000
2017	4	04/07/2017 4:33 AM	04/07/2017 8:20 AM	3 Hours, 47 Minutes	Pacificorp	WECC	Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	100	64852
2017	4	04/07/2017 8:15 AM	04/08/2017 12:14 AM	15 Hours, 59 Minutes	Portland General Electric Co	WECC	Oregon: Multnomah County, Washington County, Marion County, Clackamas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	153867
2017	4	04/24/2017 5:32 AM	04/24/2017 6:33 AM	1 Hours, 1 Minutes	Duke Energy Carolinas	SERC	North Carolina: Mecklenburg County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	240	74698
2017	4	04/30/2017 1:00 AM	04/30/2017 5:45 PM	16 Hours, 45 Minutes	Entergy Corp	SERC	Arkansas, Louisiana, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	145174
2017	5	05/01/2017 11:14 PM	05/01/2017 11:34 PM	0 Hours, 20 Minutes	Pennsylvania Electric Co	RFC	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	92390
2017	5	05/03/2017 6:58 PM	05/03/2017 9:15 PM	2 Hours, 17 Minutes	Southern California Edison Co	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	572	0
2017	5	05/03/2017 7:05 PM	05/03/2017 9:00 PM	1 Hours, 55 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	878	Unknown
2017	5	05/04/2017 5:00 AM	05/04/2017 10:00 PM	17 Hours, 0 Minutes	Southern Company	SERC	Alabama: Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	60377
2017	5	05/07/2017 5:15 AM	ongoing	ongoing	California Department of Water Resources	WECC	California: Fresno County	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	5	05/07/2017 11:30 PM	05/08/2017 5:00 AM	5 Hours, 30 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	80	0
2017	5	05/19/2017 5:30 AM	ongoing	ongoing	Ameren Missouri	SERC	Missouri: St. Louis County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	70696
2017	5	05/27/2017 11:00 PM	ongoing	ongoing	Tennessee Valley Authority	SERC	Tennessee: Shelby County, Putnam County, Knox County, Davidson County, Hamilton County; Alabama: Madison County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	116000
2017	5	05/27/2017 11:10 PM	ongoing	ongoing	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	391	188000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas: Louisiana	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 Minutes	Southwest Power Pool, Inc.	SERC	Louisiana: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000

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

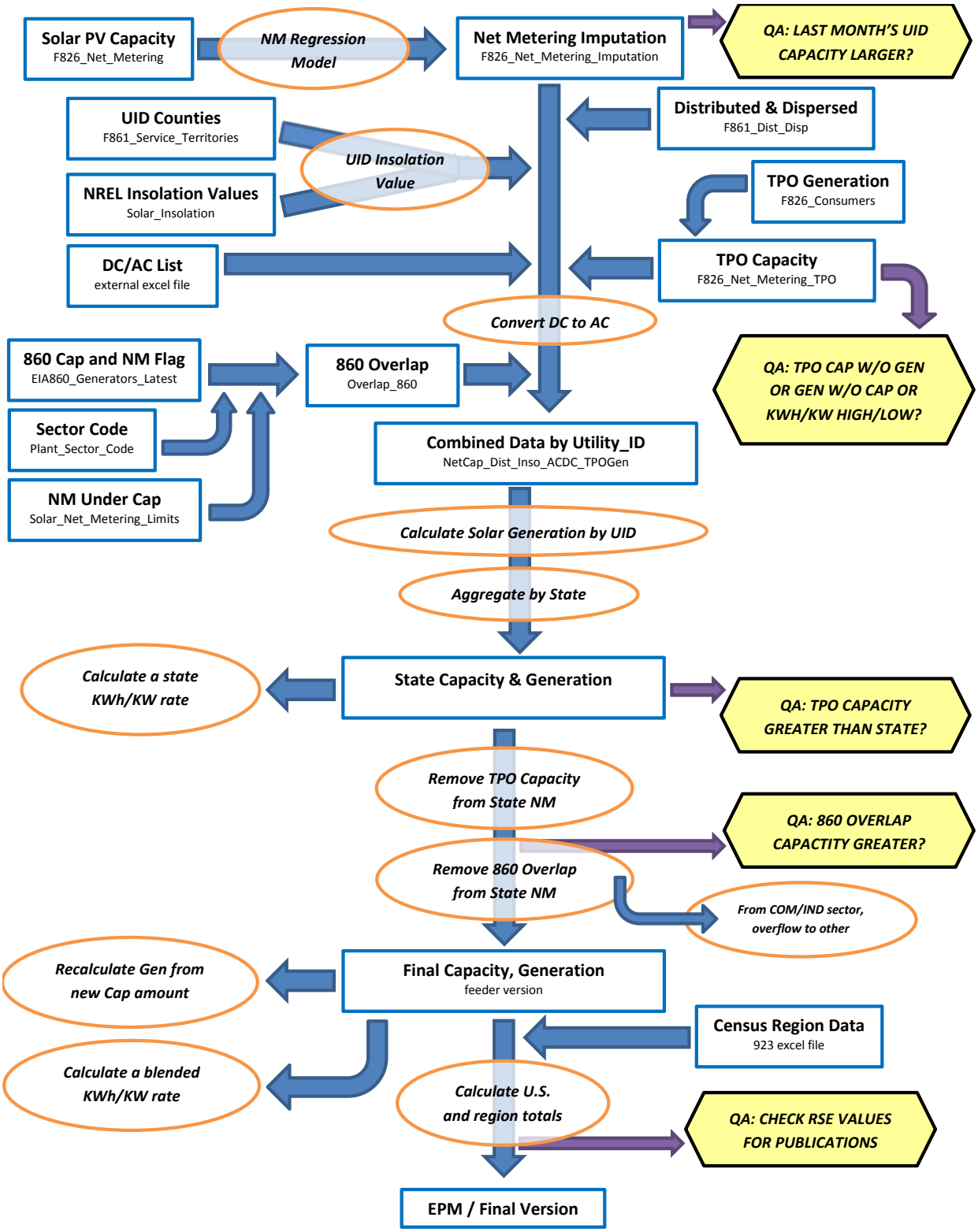
TMY3 (1991-2005) Weather Stations by MSA

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, May 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	5.88	--	1.03
Connecticut	--	5.80	--	1.03
Maine	26.10	6.25	--	--
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	24.27	5.88	--	1.03
New Jersey	26.17	5.75	--	1.04
New York	25.52	5.90	--	1.03
Pennsylvania	24.18	5.88	--	1.03
East North Central	20.21	5.78	26.65	1.04
Illinois	17.76	5.80	--	1.01
Indiana	22.25	5.76	--	1.06
Michigan	18.72	5.86	26.64	1.03
Ohio	24.75	5.77	--	1.06
Wisconsin	17.78	5.81	27.04	1.03
West North Central	16.53	5.75	--	1.04
Iowa	17.63	5.73	--	1.06
Kansas	17.33	5.72	--	1.03
Minnesota	17.78	5.80	--	1.03
Missouri	17.59	5.78	--	1.01
Nebraska	16.87	--	--	1.06
North Dakota	13.43	5.80	--	1.00
South Dakota	16.49	--	--	--
South Atlantic	23.49	5.83	28.03	1.03
Delaware	25.88	--	--	1.03
District of Columbia	--	--	--	--
Florida	23.48	5.80	28.03	1.02
Georgia	20.25	5.85	--	1.03
Maryland	24.36	5.82	--	1.05
North Carolina	24.87	5.91	--	1.04
South Carolina	24.92	5.79	--	1.03
Virginia	21.62	5.97	--	1.05
West Virginia	24.82	5.73	--	1.09
East South Central	20.55	5.78	28.39	1.03
Alabama	19.73	5.69	--	1.03
Kentucky	21.71	5.81	28.39	1.01
Mississippi	13.09	5.81	--	1.03
Tennessee	21.24	5.76	--	1.02
West South Central	15.87	5.85	28.36	1.03
Arkansas	17.69	5.85	--	1.02
Louisiana	16.02	--	28.36	1.03
Oklahoma	17.62	5.84	--	1.04
Texas	15.58	5.85	--	1.03
Mountain	18.90	5.79	--	1.04
Arizona	19.95	5.78	--	1.04
Colorado	18.85	5.67	--	1.09
Idaho	--	--	--	--
Montana	17.01	5.92	--	1.04
Nevada	17.89	5.73	--	1.04
New Mexico	18.92	5.66	--	1.04
Utah	21.18	5.81	--	1.04
Wyoming	17.39	5.83	--	1.05
Pacific Contiguous	17.94	6.00	--	1.03
California	22.87	--	--	1.03
Oregon	--	--	--	1.06
Washington	16.90	6.00	--	1.09
Pacific Noncontiguous	18.67	6.11	--	1.00
Alaska	15.00	--	--	1.00
Hawaii	19.59	6.11	--	--
U.S. Total	19.27	5.99	27.98	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.