Independent Statistics & Analysis
U.S. Energy Information Administration

Electric Power Monthly

with Data for July 2017

September 2017

This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies

Independent Statistics & Analysis
www.eia.gov

U.S. Department of Energy
Washington, DC 20585

Contacts

The Electric Power Monthly is prepared by the U.S. Energy Information Administration.

Questions and comments concerning the contents of the Electric Power Monthly may be directed to:

Ronald Hankey, Project Leader
U.S. Energy Information Administration, EI-23
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC, 20585-0650

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Ronald Hankey
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Joy Liu
U.S. electric fossil-fuel costs	Joy Liu
U.S. sales of electricity to ultimate consumers	Peter Wong
Sampling and estimation methodologies	Orhan Yildiz.

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.”

Table of Contents

Table and Figure Index

Chapter 2. Consumption of Fossil Fuels

Chapter 3. Fossil-Fuel Stocks for Electricity Generation

Chapter 4. Receipts and Cost of Fossil Fuels

Chapter 5. Sales to Ultimate Consumers, Revenue, and Average Price of Electricity to Ultimate Consumers

Chapter 6. Capacity

Appendices

Table ES1.A. Total Electric Power Industry Summary Statistics, 2017 and 2016

Net Generation and Consumption of Fuels for July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	128,342	136,504	-6.0%	97,317	101,023	30,278	34,566	29	30	717	884	0	0
Petroleum Liquids	Utility Scale Facilities	949	1,261	-24.8%	663	903	242	300	11	9	34	49	0	0
Petroleum Coke	Utility Scale Facilities	865	1,057	-18.2%	673	833	107	136	0	1	85	87	0	0
Natural Gas	Utility Scale Facilities	142,436	151,860	-6.2%	69,854	72,500	64,103	70,502	680	763	7,798	8,095	0	0
Other Gas	Utility Scale Facilities	1,231	1,066	15.5%	19	23	375	322	0	0	837	721	0	0
Nuclear	Utility Scale Facilities	71,314	70,349	1.4%	37,874	37,919	33,440	32,430	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	26,223	21,247	23.4%	24,158	19,901	1,923	1,238	NM	NM	130	101	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	28,215	28,678	-1.6%	2,944	3,071	22,486	22,839	275	298	2,511	2,471	0	0
... Wind	Utility Scale Facilities	15,711	17,595	-10.7%	2,159	2,318	13,540	15,259	8	12	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,544	4,097	35.3%	360	235	5,113	3,789	64	69	7	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,711	3,652	1.6%	222	307	1,061	982	7	8	2,421	2,356	0	0
... Other Biomass	Utility Scale Facilities	1,746	1,910	-8.6%	113	120	1,359	1,475	196	209	78	105	0	0
... Geothermal	Utility Scale Facilities	1,504	1,424	5.6%	91	91	1,413	1,334	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-759	-784	-3.1%	-646	-678	-114	-106	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,206	1,212	-0.4%	43	23	574	618	94	97	496	474	0	0
All Energy Sources	Utility Scale Facilities	400,022	412,450	-3.0%	232,899	235,520	153,413	162,843	1,102	1,204	12,608	12,883	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,629	2,066	27.3%	0	0	0	0	878	743	264	190	1,487	1,133
Estimated Total Solar Photovoltaic	All Facilities	7,862	5,691	38.1%	359	230	4,803	3,323	942	812	271	NM	1,487	1,133
Estimated Total Solar	All Facilities	8,173	6,163	32.6%	360	235	5,113	3,789	942	812	271	NM	1,487	1,133
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	70,150	74,241	-5.5%	52,403	54,196	17,458	19,706	10	11	279	328	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,828	2,205	-17.1%	1,249	1,677	514	461	18	11	48	57	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	333	403	-17.4%	271	325	43	56	0	0	18	22	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,090,309	1,179,364	-7.6%	544,954	576,840	483,816	538,874	6,227	6,656	55,312	56,994	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,005	1,176	-14.5%	94	83	112	151	40	35	759	906	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	214	239	-10.2%	0	0	95	87	16	11	103	140	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	87	85	1.6%	0	0	9	8	0	1	77	76	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	80,867	81,911	-1.3%	805	983	21,929	25,464	4,245	4,134	53,888	51,329	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	71,155	75,416	-5.7%	52,497	54,279	17,570	19,857	50	46	1,038	1,234	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,042	2,444	-16.4%	1,249	1,677	609	548	34	22	150	197	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	420	488	-14.0%	272	325	52	65	0	1	95	98	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,171,175	1,261,274	-7.1%	545,759	577,823	505,744	564,338	10,473	10,790	109,200	108,323	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	149,041	170,850	-12.8%	118,572	135,110	29,512	34,354	97	139	860	1,246	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	30,367	32,944	-7.8%	19,481	20,652	8,913	10,537	303	392	1,670	1,362	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	998	1,045	-4.5%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2017	July 2016	Percentage Change	July 2017	July 2016	Percentage Change	July 2017	July 2016	Percentage Change
Residential	148,865	153,976	-3.3%	19,533	19,522	0.1%	13.12	12.68	3.5%
Commercial	128,049	129,265	-0.9%	14,079	13,732	2.5%	11.00	10.62	3.6%
Industrial	84,027	83,369	0.8%	6,160	6,025	2.3%	7.33	7.23	1.4%
Transportation	630	648	-2.9%	64	62	2.8%	10.19	9.63	5.8%
All Sectors	361,570	367,258	-1.5%	39,836	39,341	1.3%	11.02	10.71	2.9%

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

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

Net Generation and Consumption of Fuels for January through July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	703,830	684,888	2.8%	525,822	514,103	172,970	164,850	205	248	4,832	5,688	0	0
Petroleum Liquids	Utility Scale Facilities	6,910	7,341	-5.9%	5,017	5,101	1,569	1,908	75	61	250	272	0	0
Petroleum Coke	Utility Scale Facilities	5,425	6,880	-21.1%	4,104	5,536	803	766	4	4	514	573	0	0
Natural Gas	Utility Scale Facilities	701,783	805,973	-12.9%	342,120	386,076	303,888	362,265	4,292	4,515	51,482	53,116	0	0
Other Gas	Utility Scale Facilities	8,104	7,948	2.0%	110	74	2,380	2,344	0	0	5,615	5,530	0	0
Nuclear	Utility Scale Facilities	458,644	470,778	-2.6%	242,363	252,187	216,282	218,591	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	200,769	171,588	17.0%	185,780	158,555	13,983	12,112	NM	NM	925	882	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	228,592	201,485	13.5%	26,009	24,790	184,218	158,311	1,842	1,901	16,522	16,482	0	0
... Wind	Utility Scale Facilities	150,509	134,167	12.2%	20,829	20,282	129,555	113,751	82	87	NM	47	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	31,690	20,931	51.4%	2,072	1,290	29,243	19,279	350	342	26	19	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	23,949	23,539	1.7%	1,680	1,749	6,400	6,074	43	39	15,826	15,678	0	0
... Other Biomass	Utility Scale Facilities	12,186	12,941	-5.8%	811	848	9,380	9,921	1,367	1,433	628	738	0	0
... Geothermal	Utility Scale Facilities	10,257	9,907	3.5%	617	621	9,641	9,286	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,626	-3,148	15.2%	-3,029	-2,565	-597	-583	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	7,665	7,970	-3.8%	317	194	3,808	4,141	599	636	2,941	2,998	0	0
All Energy Sources	Utility Scale Facilities	2,318,096	2,361,703	-1.8%	1,328,614	1,344,051	899,304	924,706	7,098	7,405	83,080	85,541	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	14,687	11,558	27.1%	0	0	0	0	4,967	4,332	1,464	1,074	8,256	6,153
Estimated Total Solar Photovoltaic	All Facilities	44,366	30,359	46.1%	2,070	1,237	27,234	17,203	5,317	4,674	1,489	1,093	8,256	6,153
Estimated Total Solar	All Facilities	46,377	32,488	42.7%	2,072	1,290	29,243	19,279	5,317	4,674	1,489	1,093	8,256	6,153
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	385,505	374,065	3.1%	284,622	277,318	98,960	94,593	75	83	1,849	2,070	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	11,875	12,473	-4.8%	9,068	9,239	2,387	2,847	127	73	294	314	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,056	2,582	-20.4%	1,662	2,110	282	324	1	1	112	147	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	5,304,352	6,074,982	-12.7%	2,624,888	2,975,044	2,272,487	2,689,558	39,567	39,940	367,410	370,440	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	7,687	8,805	-12.7%	650	635	897	1,045	258	327	5,883	6,798	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,425	1,475	-3.4%	11	16	569	570	140	77	705	812	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	566	583	-3.0%	2	1	64	58	7	7	493	516	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	560,842	557,959	0.5%	5,810	6,647	149,998	169,120	29,324	28,331	375,709	353,861	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	393,193	382,869	2.7%	285,272	277,953	99,857	95,638	332	410	7,732	8,869	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	13,301	13,948	-4.6%	9,079	9,255	2,956	3,417	267	149	999	1,127	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,622	3,165	-17.2%	1,664	2,112	346	382	8	8	604	663	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	5,865,194	6,632,941	-11.6%	2,630,698	2,981,691	2,422,485	2,858,678	68,891	68,271	743,119	724,301	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through July									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	Percentage Change
Residential	793,527	807,658	-1.7%	102,047	100,693	1.3%	12.86	12.47	3.1%
Commercial	774,094	776,229	-0.3%	82,089	79,918	2.7%	10.60	10.30	2.9%
Industrial	545,925	543,357	0.5%	37,421	36,136	3.6%	6.85	6.65	3.0%
Transportation	4,368	4,373	-0.1%	422	413	2.2%	9.67	9.45	2.3%
All Sectors	2,117,913	2,131,618	-0.6%	221,979	217,161	2.2%	10.48	10.19	2.8%

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

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

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal (1000 tons)	56,876	59,400	39.82	40.53	271	277	364,520	343,877	40.29	41.38
Petroleum Liquids (1000 barrels)	1,081	1,460	W	72.81	128	150	8,970	9,570	68.64	54.24
Petroleum Coke (1000 tons)	302	355	W	41.45	7	8	1,891	2,383	W	38.65
Natural Gas (1000 Mcf)	897,826	1,148,584	3.33	3.07	498	782	4,520,615	5,988,980	3.58	2.74

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal (1000 tons)	42,290	43,673	40.87	42.06	188	194	266,264	257,184	41.36	42.44
Petroleum Liquids (1000 barrels)	769	1,142	65.59	71.92	84	100	6,803	7,114	67.98	53.82
Petroleum Coke (1000 tons)	292	340	59.61	40.50	6	6	1,872	2,068	58.21	34.70
Natural Gas (1000 Mcf)	431,599	550,931	3.60	3.31	255	417	2,183,863	2,884,139	3.81	3.01

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal (1000 tons)	13,865	15,130	36.04	35.31	64	65	93,096	82,468	36.49	37.02
Petroleum Liquids (1000 barrels)	297	309	W	76.45	35	42	2,010	2,276	70.82	55.36
Petroleum Coke (1000 tons)	0	8	--	W	0	1	0	226	--	68.87
Natural Gas (1000 Mcf)	409,772	533,794	2.96	2.76	197	318	1,960,648	2,683,605	3.31	2.43

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal (1000 tons)	0	0	--	--	0	0	15	19	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	613	667	W	W	3	3	4,105	4,697	W	W

Industrial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal (1000 tons)	721	597	51.34	61.02	19	18	5,145	4,206	W	W
Petroleum Liquids (1000 barrels)	15	10	W	62.12	9	8	157	180	69.44	56.95
Petroleum Coke (1000 tons)	9	8	W	W	1	1	19	88	W	W
Natural Gas (1000 Mcf)	55,842	63,191	W	W	43	44	371,999	416,539	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	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal	1,084,862	1,138,678	2.09	2.11	271	277	7,004,160	6,669,642	2.10	2.13
Petroleum Liquids	6,461	8,993	W	11.82	128	150	53,790	57,930	11.45	8.96
Petroleum Coke	8,498	10,031	W	1.47	7	8	53,046	67,011	W	1.37
Natural Gas	928,737	1,186,484	3.22	2.97	498	782	4,672,072	6,188,152	3.47	2.65
Fossil Fuels	2,028,558	2,344,186	W	2.56	662	961	11,783,068	12,982,735	W	2.39

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal	816,276	843,774	2.12	2.18	188	194	5,159,627	5,019,215	2.13	2.17
Petroleum Liquids	4,627	7,114	10.90	11.54	84	100	41,003	43,472	11.28	8.81
Petroleum Coke	8,245	9,587	2.11	1.43	6	6	52,521	58,365	2.07	1.23
Natural Gas	446,468	569,055	3.48	3.20	255	417	2,256,613	2,979,957	3.69	2.91
Fossil Fuels	1,275,615	1,429,530	2.62	2.63	369	540	7,509,765	8,101,008	2.65	2.47

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal	253,594	281,765	1.97	1.90	64	65	1,736,073	1,556,446	1.95	1.96
Petroleum Liquids	1,739	1,819	W	12.97	35	42	11,808	13,360	12.05	9.42
Petroleum Coke	0	223	--	W	0	1	0	6,232	--	2.50
Natural Gas	423,931	551,548	2.86	2.67	197	318	2,027,047	2,773,915	3.20	2.35
Fossil Fuels	679,265	835,355	W	W	245	370	3,774,928	4,349,953	2.59	W

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal	0	0	--	--	0	0	336	434	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	636	691	W	W	3	3	4,237	4,815	W	W
Fossil Fuels	636	691	W	W	3	3	4,573	5,249	W	W

Industrial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
Coal	14,992	13,139	2.47	2.77	19	18	108,125	93,547	W	W
Petroleum Liquids	95	60	W	10.18	9	8	978	1,098	11.14	9.32
Petroleum Coke	253	222	W	W	1	1	525	2,414	W	W
Natural Gas	57,702	65,190	W	W	43	44	384,175	429,466	W	W
Fossil Fuels	73,043	78,611	W	W	45	48	493,803	526,525	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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,108	12,675	11,232	1,380,295	13,000	805,327	265,829	36,754	306,861	-6,686	13,683	4,079,079	19,467	52,833	56,221
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
Year 2016															
January	113,551	1,343	953	109,787	1,263	72,525	25,426	1,516	25,549	-312	1,144	352,745	1,021	2,450	2,536
February	92,719	1,236	904	98,190	1,169	65,638	24,150	2,443	26,682	-399	1,017	313,749	1,189	3,391	3,632
March	72,138	820	945	103,791	1,241	66,149	27,025	2,713	28,631	-384	1,099	304,168	1,582	4,038	4,295
April	72,022	794	1,037	99,561	1,149	62,365	25,475	2,949	26,812	-452	1,123	292,836	1,763	4,439	4,712
May	81,728	950	974	110,901	977	66,576	25,362	3,603	25,374	-321	1,211	317,337	1,945	5,160	5,548
June	116,227	936	1,009	131,883	1,085	67,175	22,902	3,610	22,925	-497	1,164	368,418	1,991	5,190	5,601
July	136,504	1,261	1,057	151,860	1,066	70,349	21,247	4,097	24,581	-784	1,212	412,450	2,066	5,691	6,163
August	135,811	1,275	1,085	155,117	1,102	71,526	19,359	3,948	20,562	-902	1,231	410,113	2,004	5,584	5,952
Sept	114,282	920	1,004	125,639	1,050	65,448	16,281	3,683	23,013	-715	1,164	351,769	1,790	5,109	5,473
October	99,338	941	611	102,625	891	60,733	17,249	3,193	26,726	-561	1,083	312,828	1,607	4,552	4,801
November	87,000	1,058	781	94,529	1,001	65,179	18,815	2,700	25,879	-607	1,092	297,427	1,307	3,823	4,007
December	118,790	1,139	871	96,412	1,007	71,662	22,538	2,299	30,128	-753	1,144	345,238	1,202	3,406	3,500
Year 2017															
January	115,549	1,175	945	91,325	1,115	73,121	27,704	2,206	27,232	-418	1,118	341,072	1,282	3,398	3,488
February	87,267	916	707	78,581	1,152	64,053	24,611	2,562	28,045	-504	1,024	288,414	1,449	3,875	4,011
March	89,648	971	744	92,638	1,206	65,093	30,198	4,474	32,399	-517	1,078	317,934	2,054	6,232	6,529
April	81,789	897	435	86,234	1,084	56,743	29,236	4,816	31,821	-437	1,061	293,679	2,268	6,774	7,084
May	93,125	1,002	839	96,354	1,163	61,309	32,122	5,816	28,815	-423	1,080	321,202	2,479	7,893	8,295
June	108,109	1,000	891	114,215	1,153	67,011	30,674	6,272	25,919	-568	1,097	355,774	2,524	8,332	8,796
July	128,342	949	865	142,436	1,231	71,314	26,223	5,544	22,671	-759	1,206	400,022	2,629	7,862	8,173
Year to Date															
2015	826,262	12,386	6,517	749,344	7,793	467,818	154,730	14,779	153,538	-2,912	7,916	2,398,171	8,248	21,041	23,027
2016	684,888	7,341	6,880	805,973	7,948	470,778	171,588	20,931	180,554	-3,148	7,970	2,361,703	11,558	30,359	32,488
2017	703,830	6,910	5,425	701,783	8,104	458,644	200,769	31,690	196,902	-3,626	7,665	2,318,096	14,687	44,366	46,377
Rolling 12 Months Ending in July															
2016	1,211,025	12,327	11,240	1,390,110	13,272	800,138	265,938	31,044	297,284	-5,327	14,082	4,041,133	17,449	45,124	48,494
2017	1,259,050	12,244	9,777	1,276,105	13,156	793,194	295,011	47,514	323,209	-7,164	13,378	4,035,473	22,596	66,840	70,110

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,872	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,445	19,467	52,833	56,221
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
Year 2016													
January	18,531	1,430	86	3,615	1,007	628	295	1,471	25,426	52,491	1,021	2,450	2,536
February	20,204	2,202	241	3,394	892	547	274	1,372	24,150	53,275	1,189	3,391	3,632
March	21,979	2,456	257	3,381	938	588	285	1,460	27,025	58,369	1,582	4,038	4,295
April	20,745	2,676	273	2,909	937	602	280	1,340	25,475	55,236	1,763	4,439	4,712
May	18,795	3,215	388	3,173	1,002	661	267	1,476	25,362	54,340	1,945	5,160	5,548
June	16,318	3,198	412	3,414	976	620	234	1,364	22,902	49,437	1,991	5,190	5,601
July	17,595	3,625	471	3,652	1,007	642	261	1,424	21,247	49,925	2,066	5,691	6,163
August	13,561	3,581	368	3,650	1,005	645	257	1,444	19,359	43,869	2,004	5,584	5,952
Sept	16,430	3,319	363	3,369	942	600	221	1,451	16,281	42,977	1,790	5,109	5,473
October	20,380	2,945	249	3,105	916	592	244	1,489	17,249	47,168	1,607	4,552	4,801
November	19,342	2,516	184	3,257	924	600	249	1,507	18,815	47,394	1,307	3,823	4,007
December	22,991	2,204	95	3,584	1,018	652	263	1,620	22,538	54,965	1,202	3,406	3,500
Year 2017													
January	20,350	2,116	90	3,451	986	620	286	1,541	27,704	57,142	1,282	3,398	3,488
February	21,692	2,426	136	3,308	881	530	266	1,369	24,611	55,218	1,449	3,875	4,011
March	25,599	4,178	297	3,504	924	552	286	1,533	30,198	67,071	2,054	6,232	6,529
April	25,403	4,506	310	3,254	874	539	248	1,503	29,236	65,874	2,268	6,774	7,084
May	22,326	5,414	402	3,321	906	597	242	1,422	32,122	66,753	2,479	7,893	8,295
June	19,429	5,807	465	3,399	882	583	239	1,387	30,674	62,865	2,524	8,332	8,796
July	15,711	5,232	311	3,711	913	597	236	1,504	26,223	54,438	2,629	7,862	8,173
Year to Date													
2015	107,507	12,793	1,986	24,432	6,419	4,075	1,768	9,337	154,730	323,047	8,248	21,041	23,027
2016	134,167	18,801	2,129	23,539	6,757	4,287	1,896	9,907	171,588	373,072	11,558	30,359	32,488
2017	150,509	29,679	2,011	23,949	6,365	4,018	1,803	10,257	200,769	429,361	14,687	44,366	46,377
Rolling 12 Months Ending in July													
2016	217,379	27,674	3,370	41,035	11,630	7,423	3,329	16,488	265,938	594,266	17,449	45,124	48,494
2017	243,214	44,244	3,270	40,914	11,170	7,107	3,038	17,767	295,011	665,734	22,596	66,840	70,110

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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,299	8,671	8,881	654,476	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,081
Year 2015												
January	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
Year 2016												
January	84,064	926	832	52,497	NM	37,974	23,185	101	3,317	-230	27	202,696
February	69,803	779	734	47,642	4	34,281	21,931	158	3,625	-332	26	178,652
March	56,901	584	724	49,809	6	34,445	24,916	173	3,693	-291	34	170,993
April	53,477	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,944
May	62,122	654	763	52,960	NM	36,531	23,512	214	3,104	-257	27	179,641
June	86,713	687	793	64,043	17	37,000	21,477	223	3,034	-409	28	213,606
July	101,023	903	833	72,500	23	37,919	19,901	235	2,836	-678	23	235,520
August	100,319	888	856	72,932	15	37,927	18,054	227	2,429	-787	22	232,883
Sept	83,380	620	807	58,470	24	33,919	15,222	207	3,212	-626	22	195,258
October	73,089	633	418	47,523	6	30,016	16,101	179	3,472	-471	25	170,992
November	64,946	673	596	43,678	22	33,082	17,741	147	3,631	-522	24	164,018
December	87,463	755	667	45,796	23	37,268	20,976	221	4,343	-657	24	196,879
Year 2017												
January	86,163	839	743	44,026	16	38,425	25,618	158	3,039	-328	49	198,748
February	65,271	660	540	37,367	22	34,403	22,749	184	3,437	-414	46	164,264
March	66,356	761	535	45,000	20	34,693	27,998	292	4,098	-450	51	179,355
April	59,423	670	260	42,419	18	30,217	26,998	315	3,999	-366	54	164,005
May	69,481	720	654	47,829	5	31,728	29,727	375	3,491	-350	35	183,697
June	81,812	705	698	55,625	10	35,022	28,532	388	3,289	-474	38	205,646
July	97,317	663	673	69,854	19	37,874	24,158	360	2,584	-646	43	232,899
Year to Date												
2015	608,167	6,852	4,951	348,706	143	244,530	142,190	891	20,155	-2,323	317	1,374,581
2016	514,103	5,101	5,536	386,076	74	252,187	158,555	1,290	23,500	-2,565	194	1,344,051
2017	525,822	5,017	4,104	342,120	110	242,363	185,780	2,072	23,937	-3,029	317	1,328,614
Rolling 12 Months Ending in July												
2016	904,321	8,634	8,864	655,187	NM	424,336	246,005	1,893	39,337	-4,348	434	2,284,793
2017	935,019	8,587	7,449	610,519	201	414,576	273,874	3,053	41,025	-6,093	435	2,288,644

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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,374	1,400	625,841	3,902	380,928	17,821	33,886	235,404	-1,057	7,126	1,615,768
Year 2015												
January	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
Year 2016												
January	28,568	364	42	48,897	367	34,551	2,100	1,391	19,506	-82	605	136,308
February	22,053	401	99	42,799	336	31,357	2,082	2,237	20,553	-66	543	122,395
March	14,354	205	138	45,836	367	31,704	1,956	2,491	22,334	-93	556	119,847
April	17,802	193	97	45,069	321	28,329	1,706	2,717	20,533	-84	575	117,259
May	18,845	238	124	49,738	284	30,046	1,714	3,332	19,730	-64	636	124,623
June	28,662	207	131	59,424	347	30,175	1,314	3,322	17,327	-88	609	141,430
July	34,566	300	136	70,502	322	32,430	1,238	3,789	19,049	-106	618	162,843
August	34,589	324	140	73,267	331	33,599	1,213	3,659	15,487	-115	627	163,120
Sept	30,149	259	113	58,800	344	31,529	995	3,417	17,316	-89	579	143,412
October	25,544	236	141	46,992	239	30,717	1,065	2,966	20,773	-90	565	129,150
November	21,420	338	116	42,479	338	32,097	1,003	2,512	19,672	-85	576	120,466
December	30,591	309	124	42,039	304	34,394	1,434	2,052	23,124	-96	637	134,914
Year 2017												
January	28,560	277	132	38,789	348	34,695	1,951	2,024	21,515	-90	584	128,785
February	21,282	212	102	33,664	322	29,650	1,738	2,349	22,081	-90	519	111,830
March	22,573	162	122	39,713	362	30,400	2,049	4,132	25,703	-66	527	125,678
April	21,743	186	121	36,240	285	26,526	2,092	4,449	25,356	-71	508	117,435
May	22,974	238	112	40,807	353	29,581	2,236	5,370	22,855	-73	545	124,998
June	25,559	252	108	50,572	335	31,988	1,994	5,805	20,092	-93	551	137,165
July	30,278	242	107	64,103	375	33,440	1,923	5,113	17,372	-114	574	153,413
Year to Date												
2015	211,315	5,013	963	346,668	2,143	223,288	11,669	13,625	115,146	-590	3,856	933,097
2016	164,850	1,908	766	362,265	2,344	218,591	12,112	19,279	139,032	-583	4,141	924,706
2017	172,970	1,569	803	303,888	2,380	216,282	13,983	29,243	154,975	-597	3,808	899,304
Rolling 12 Months Ending in July												
2016	296,143	3,135	1,404	635,435	3,718	375,802	18,439	28,615	226,744	-980	7,124	1,595,580
2017	315,263	3,035	1,437	567,465	3,937	378,618	19,693	43,850	251,347	-1,071	6,793	1,590,366

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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
Year 2016															
January	43	11	1	648	0	0	NM	23	235	0	91	1,057	409	432	432
February	47	13	1	550	0	0	NM	45	207	0	76	944	468	512	512
March	44	NM	1	595	0	0	NM	47	247	0	98	1,043	608	655	655
April	29	8	0	615	0	0	NM	44	223	0	97	1,022	661	705	705
May	26	8	0	650	0	0	NM	54	216	0	95	1,055	719	773	773
June	28	6	0	694	0	0	NM	62	201	0	82	1,079	723	785	785
July	30	9	1	763	0	0	NM	69	229	0	97	1,204	743	812	812
August	33	14	0	781	0	0	NM	59	224	0	96	1,212	718	777	777
Sept	34	7	0	675	0	0	NM	56	200	0	89	1,065	643	699	699
October	36	8	0	583	0	0	NM	45	207	0	87	969	578	623	623
November	39	NM	0	591	0	0	NM	38	197	0	84	961	467	505	505
December	45	10	1	605	0	0	NM	24	209	0	83	981	443	468	468
Year 2017															
January	40	18	1	662	0	0	NM	23	227	0	86	1,060	481	503	503
February	31	9	1	576	0	0	NM	27	204	0	79	931	526	553	553
March	35	NM	1	638	0	0	NM	47	216	0	82	1,045	703	751	751
April	22	8	0	529	0	0	NM	50	199	0	81	903	760	809	809
May	23	9	0	573	0	0	NM	67	223	0	95	1,006	809	876	876
June	24	8	0	635	0	0	NM	72	213	0	83	1,050	811	882	882
July	29	11	0	680	0	0	NM	64	211	0	94	1,102	878	942	942
Year to Date															
2015	326	146	4	4,151	0	0	20	250	1,606	0	665	7,169	3,427	3,678	3,678
2016	248	61	4	4,515	0	0	NM	342	1,559	0	636	7,405	4,332	4,674	4,674
2017	205	75	4	4,292	0	0	NM	350	1,493	0	599	7,098	4,967	5,317	5,317
Rolling 12 Months Ending in July															
2016	430	NM	8	7,835	0	0	NM	508	2,756	0	1,141	12,831	6,594	7,102	7,102
2017	393	NM	5	7,527	0	0	NM	573	2,529	0	1,038	12,286	7,815	8,388	8,388

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-July 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
Year 2016															
January	876	43	79	7,746	893	0	136	NM	2,491	0	420	12,684	98	NM	NM
February	817	43	70	7,198	828	0	131	3	2,296	0	372	11,758	108	111	111
March	839	27	82	7,551	868	0	147	NM	2,357	0	412	12,284	150	NM	NM
April	713	25	81	7,250	819	0	131	NM	2,165	0	424	11,611	164	NM	NM
May	736	50	88	7,554	681	0	130	NM	2,324	0	453	12,018	181	NM	NM
June	824	36	86	7,723	720	0	105	NM	2,362	0	444	12,303	183	NM	NM
July	884	49	87	8,095	721	0	101	NM	2,467	0	474	12,883	190	NM	NM
August	870	49	88	8,137	756	0	87	NM	2,422	0	486	12,898	186	NM	NM
Sept	718	35	84	7,695	681	0	60	3	2,285	0	473	12,034	170	173	173
October	669	64	NM	7,526	646	0	80	3	2,274	0	406	11,718	156	158	158
November	595	40	69	7,781	641	0	68	2	2,379	0	407	11,982	123	125	125
December	691	65	79	7,973	680	0	123	NM	2,452	0	400	12,464	114	NM	NM
Year 2017															
January	786	42	69	7,848	751	0	132	NM	2,450	0	399	12,479	120	NM	NM
February	683	35	65	6,975	808	0	120	NM	2,323	0	380	11,389	139	NM	NM
March	684	36	86	7,287	825	0	136	2	2,382	0	418	11,856	210	212	212
April	601	34	54	7,046	781	0	131	NM	2,267	0	419	11,335	226	NM	NM
May	646	35	72	7,145	805	0	143	4	2,246	0	405	11,500	250	254	254
June	714	35	84	7,382	808	0	133	8	2,325	0	424	11,912	254	262	262
July	717	34	85	7,798	837	0	130	7	2,504	0	496	12,608	264	271	271
Year to Date															
2015	6,454	375	599	49,819	5,506	0	850	13	16,630	0	3,078	83,325	851	864	864
2016	5,688	272	573	53,116	5,530	0	882	19	16,462	0	2,998	85,541	1,074	1,093	1,093
2017	4,832	250	514	51,482	5,615	0	925	26	16,497	0	2,941	83,080	1,464	1,489	1,489
Rolling 12 Months Ending in July															
2016	10,130	460	964	91,652	9,425	0	1,441	NM	28,447	0	5,382	147,928	1,674	NM	NM
2017	8,375	502	NM	90,593	9,018	0	1,344	NM	28,309	0	5,112	144,176	2,213	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.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	513
February	614
March	824
April	939
May	1,044
June	1,086
July	1,133
August	1,100
Sept	977
October	874
November	717
December	644
Year 2017	
January	682
February	784
March	1,142
April	1,282
May	1,420
June	1,460
July	1,487
Year to Date	
2015	3,969
2016	6,153
2017	8,256
Rolling 12 Months Ending in July	
2016	9,182
2017	12,568

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, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	10,016	11,014	-9.1%	253	279	9,393	10,362	96	122	274	252
Connecticut	3,266	3,345	-2.4%	6	NM	3,185	3,258	26	38	48	46
Maine	1,001	1,129	-11.4%	0	NM	778	928	20	19	202	182
Massachusetts	3,238	3,770	-14.1%	73	84	3,106	3,613	38	52	21	21
New Hampshire	1,682	1,813	-7.2%	83	125	1,591	1,680	6	NM	3	NM
Rhode Island	631	812	-22.2%	0	1	625	804	6	NM	0	0
Vermont	198	146	36.0%	91	66	107	79	0	NM	0	0
Middle Atlantic	38,887	42,059	-7.5%	3,445	3,477	34,821	37,956	216	205	405	420
New Jersey	6,480	6,858	-5.5%	6	-2	6,345	6,734	64	68	66	59
New York	12,832	13,527	-5.1%	3,431	3,473	9,208	9,842	119	117	74	95
Pennsylvania	19,576	21,673	-9.7%	8	NM	19,268	21,380	34	20	265	267
East North Central	55,951	57,045	-1.9%	25,562	25,012	29,239	31,047	186	190	963	796
Illinois	16,779	18,085	-7.2%	536	645	15,951	17,178	46	45	246	217
Indiana	10,120	9,696	4.4%	8,852	8,616	821	799	26	26	422	254
Michigan	10,945	10,599	3.3%	8,041	7,732	2,707	2,645	77	89	121	132
Ohio	11,069	11,914	-7.1%	2,351	2,543	8,636	9,288	30	16	52	67
Wisconsin	7,038	6,752	4.2%	5,783	5,476	1,125	1,137	8	NM	122	126
West North Central	32,277	32,044	0.7%	28,265	28,161	3,600	3,450	52	61	360	372
Iowa	5,206	5,263	-1.1%	4,157	4,244	829	805	18	23	202	191
Kansas	5,140	4,889	5.1%	4,069	3,858	1,065	1,020	0	0	6	NM
Minnesota	5,618	5,399	4.1%	4,733	4,532	765	726	15	18	105	123
Missouri	8,413	8,310	1.2%	8,113	7,973	279	313	18	18	3	NM
Nebraska	3,562	3,605	-1.2%	3,323	3,371	206	204	1	NM	32	29
North Dakota	3,410	3,562	-4.3%	3,029	3,306	370	244	0	NM	12	NM
South Dakota	928	1,017	-8.7%	841	878	87	139	NM	NM	0	0
South Atlantic	81,711	85,494	-4.4%	67,585	70,481	12,339	13,163	97	142	1,690	1,708
Delaware	763	1,176	-35.1%	4	NM	629	1,032	NM	NM	130	133
District of Columbia	6	NM	NM	0	0	5	0	0	NM	0	0
Florida	23,929	24,844	-3.7%	22,171	22,333	1,292	2,034	6	NM	460	467
Georgia	13,039	14,244	-8.5%	10,826	12,278	1,749	1,518	NM	NM	464	447
Maryland	3,762	4,255	-11.6%	NM	NM	3,685	4,172	44	56	32	25
North Carolina	13,891	13,946	-0.4%	12,443	12,533	1,294	1,221	20	26	135	165
South Carolina	8,937	9,598	-6.9%	8,450	9,067	313	367	0	NM	175	162
Virginia	9,672	9,822	-1.5%	7,633	8,008	1,817	1,562	25	40	196	212
West Virginia	7,710	7,603	1.4%	6,058	6,249	1,553	1,258	0	0	99	95
East South Central	36,134	36,569	-1.2%	30,966	30,840	4,396	4,933	6	16	766	780
Alabama	14,274	13,982	2.1%	10,231	9,464	3,698	4,158	0	0	345	360
Kentucky	7,364	8,178	-10.0%	7,269	8,030	45	96	0	0	50	52
Mississippi	6,609	6,307	4.8%	5,808	5,478	626	660	0	NM	175	168
Tennessee	7,888	8,102	-2.6%	7,658	7,869	28	19	6	15	196	200
West South Central	70,388	73,813	-4.6%	24,989	27,294	38,807	39,615	98	99	6,494	6,805
Arkansas	6,439	6,587	-2.2%	4,542	4,796	1,753	1,667	1	NM	143	123
Louisiana	9,286	10,888	-14.7%	5,870	6,990	871	1,219	13	NM	2,532	2,664
Oklahoma	7,893	8,219	-4.0%	4,612	4,954	3,203	3,179	0	NM	77	84
Texas	46,770	48,119	-2.8%	9,965	10,554	32,980	33,550	84	81	3,741	3,934
Mountain	37,013	37,476	-1.2%	29,081	29,376	7,601	7,780	55	53	275	266
Arizona	11,875	12,176	-2.5%	9,608	9,358	2,251	2,804	16	14	0	0
Colorado	5,279	5,366	-1.6%	4,354	4,399	914	956	5	NM	6	NM
Idaho	1,515	1,495	1.3%	975	1,088	487	369	4	NM	48	38
Montana	2,512	2,516	-0.2%	889	893	1,621	1,621	0	0	2	NM
Nevada	4,304	4,232	1.7%	3,235	3,298	1,022	892	13	15	34	27
New Mexico	3,224	3,428	-6.0%	2,462	2,706	752	710	10	11	0	NM
Utah	3,790	3,699	2.4%	3,345	3,339	344	217	6	8	94	135
Wyoming	4,515	4,563	-1.1%	4,214	4,296	209	210	0	0	92	57
Pacific Contiguous	36,355	35,653	2.0%	21,913	19,773	12,854	14,172	242	266	1,347	1,441
California	20,980	21,332	-1.6%	9,362	8,700	10,227	11,122	234	256	1,158	1,255
Oregon	5,096	4,649	9.6%	3,610	3,101	1,429	1,491	6	NM	51	50
Washington	10,279	9,672	6.3%	8,941	7,972	1,199	1,559	NM	NM	138	137
Pacific Noncontiguous	1,291	1,282	0.6%	839	826	363	365	53	49	36	42
Alaska	454	438	3.8%	409	400	16	16	NM	13	9	NM
Hawaii	836	845	-1.0%	430	426	347	350	32	37	27	32
U.S. Total	400,022	412,450	-3.0%	232,899	235,520	153,413	162,843	1,102	1,204	12,608	12,883

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	60,238	63,549	-5.2%	1,558	1,553	56,221	59,588	667	745	1,791	1,663
Connecticut	19,675	20,655	-4.7%	49	NM	19,152	20,140	183	224	291	267
Maine	6,759	7,136	-5.3%	0	NM	5,301	5,755	121	121	1,336	1,260
Massachusetts	19,667	19,664	0.0%	352	328	18,880	18,893	289	324	146	119
New Hampshire	9,620	10,968	-12.3%	566	626	8,998	10,290	38	34	18	NM
Rhode Island	3,216	3,896	-17.5%	3	6	3,180	3,850	34	40	0	0
Vermont	1,300	1,228	5.9%	588	569	710	658	2	NM	0	0
Middle Atlantic	227,024	244,405	-7.1%	20,264	20,760	202,904	219,629	1,294	1,333	2,562	2,683
New Jersey	38,769	44,177	-12.2%	33	-1	37,914	43,384	394	399	427	396
New York	73,912	77,539	-4.7%	20,154	20,717	52,558	55,493	672	735	528	594
Pennsylvania	114,343	122,689	-6.8%	76	NM	112,431	120,752	229	199	1,607	1,694
East North Central	333,498	338,677	-1.5%	142,816	144,043	183,180	187,795	1,109	1,128	6,392	5,711
Illinois	104,087	107,703	-3.4%	2,964	3,125	99,241	102,852	252	235	1,630	1,490
Indiana	56,994	59,113	-3.6%	48,738	49,624	5,452	7,491	150	155	2,653	1,843
Michigan	66,167	67,099	-1.4%	48,349	46,611	16,554	19,026	482	551	781	911
Ohio	69,508	66,910	3.9%	13,952	15,061	54,987	51,271	159	89	410	489
Wisconsin	36,742	37,853	-2.9%	28,814	29,622	6,946	7,156	65	97	917	977
West North Central	198,995	189,646	4.9%	162,982	158,411	33,295	28,382	341	412	2,378	2,441
Iowa	33,318	31,249	6.6%	24,700	22,612	7,348	7,260	115	157	1,155	1,219
Kansas	30,185	28,245	6.9%	20,218	20,414	9,938	7,775	0	0	29	56
Minnesota	34,047	34,568	-1.5%	26,441	27,549	6,617	6,074	110	132	879	813
Missouri	50,546	46,566	8.5%	48,663	44,590	1,750	1,833	103	112	29	30
Nebraska	21,003	21,994	-4.5%	17,972	19,789	2,807	1,977	12	10	212	217
North Dakota	22,658	20,973	8.0%	18,895	18,619	3,690	2,248	0	NM	73	106
South Dakota	7,237	6,052	19.6%	6,093	4,838	1,145	1,214	NM	NM	0	0
South Atlantic	462,250	475,968	-2.9%	386,106	396,587	64,366	67,651	682	843	11,096	10,887
Delaware	3,751	5,114	-26.7%	9	NM	2,983	4,337	NM	NM	755	737
District of Columbia	44	32	36.4%	0	0	29	0	16	32	0	0
Florida	136,281	138,622	-1.7%	126,198	125,011	6,947	10,493	47	60	3,089	3,058
Georgia	74,374	78,131	-4.8%	62,486	67,081	8,889	8,164	NM	9	2,996	2,876
Maryland	19,452	21,395	-9.1%	NM	12	18,997	20,909	283	316	166	158
North Carolina	75,902	76,543	-0.8%	67,500	69,265	7,351	6,060	133	159	917	1,060
South Carolina	54,306	57,486	-5.5%	51,526	54,518	1,592	1,893	1	NM	1,187	1,069
Virginia	54,787	54,401	0.7%	44,484	45,395	8,779	7,354	194	255	1,331	1,397
West Virginia	43,353	44,243	-2.0%	33,898	35,270	8,800	8,440	0	0	655	533
East South Central	204,657	212,913	-3.9%	176,820	180,511	22,727	27,101	74	91	5,037	5,209
Alabama	81,089	82,915	-2.2%	60,295	57,822	18,478	22,645	0	0	2,315	2,449
Kentucky	43,147	46,462	-7.1%	42,635	45,804	179	311	0	0	334	347
Mississippi	35,232	38,404	-8.3%	30,196	33,248	3,913	4,027	3	NM	1,120	1,124
Tennessee	45,189	45,132	0.1%	43,693	43,638	157	119	71	86	1,268	1,289
West South Central	389,827	403,214	-3.3%	122,622	139,164	223,802	218,040	568	582	42,835	45,428
Arkansas	32,799	35,082	-6.5%	23,555	25,164	8,256	8,970	4	NM	984	945
Louisiana	55,061	63,549	-13.4%	31,924	38,374	6,119	6,608	86	100	16,933	18,467
Oklahoma	42,800	44,238	-3.3%	21,432	24,977	20,926	18,728	0	NM	443	524
Texas	259,167	260,345	-0.5%	45,711	50,649	188,502	183,734	479	469	24,476	25,492
Mountain	205,760	208,286	-1.2%	160,691	163,788	43,000	42,245	342	306	1,727	1,947
Arizona	59,490	62,220	-4.4%	51,233	51,961	8,162	10,176	95	84	0	0
Colorado	31,820	31,774	0.1%	24,373	24,562	7,381	7,153	24	21	43	38
Idaho	10,408	10,191	2.1%	7,045	6,905	3,012	2,921	30	5	321	360
Montana	16,353	15,680	4.3%	7,545	6,761	8,791	8,902	0	0	16	17
Nevada	21,895	23,235	-5.8%	15,114	17,475	6,549	5,488	80	83	152	190
New Mexico	19,618	18,507	6.0%	14,464	13,701	5,087	4,732	66	64	1	NM
Utah	20,245	20,726	-2.3%	17,423	18,906	2,338	1,185	48	50	437	585
Wyoming	25,931	25,951	-0.1%	23,493	23,516	1,680	1,688	0	0	758	748
Pacific Contiguous	227,246	216,477	5.0%	149,091	133,556	67,467	71,982	1,676	1,646	9,012	9,293
California	119,835	113,319	5.8%	55,059	46,399	55,382	57,278	1,609	1,574	7,785	8,068
Oregon	35,170	35,191	-0.1%	28,136	26,458	6,639	8,351	46	47	349	336
Washington	72,241	67,967	6.3%	65,896	60,699	5,445	6,353	NM	25	878	890
Pacific Noncontiguous	8,602	8,567	0.4%	5,665	5,677	2,342	2,292	345	319	250	278
Alaska	2,981	3,148	-5.3%	2,678	2,860	102	125	NM	95	67	69
Hawaii	5,621	5,419	3.7%	2,987	2,817	2,240	2,167	211	225	182	210
U.S. Total	2,318,096	2,361,703	-1.8%	1,328,614	1,344,051	899,304	924,706	7,098	7,405	83,080	85,541

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	39	221	-82.4%	24	59	12	160	0	0	NM	NM
Connecticut	9	10	-6.2%	0	0	9	10	0	0	0	0
Maine	NM	6	NM	0	0	3	5	0	0	NM	1
Massachusetts	0	147	-100.0%	0	0	0	146	0	0	0	NM
New Hampshire	24	59	-59.5%	24	59	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	5,029	6,662	-24.5%	0	0	4,986	6,590	0	0	42	72
New Jersey	115	137	-16.2%	0	0	115	137	0	0	0	0
New York	61	324	-81.3%	0	0	43	287	0	0	18	37
Pennsylvania	4,853	6,201	-21.7%	0	0	4,829	6,166	0	0	25	35
East North Central	27,950	28,559	-2.1%	17,534	16,723	10,220	11,655	9	5	187	175
Illinois	5,851	6,417	-8.8%	378	379	5,325	5,919	NM	NM	144	118
Indiana	7,620	7,258	5.0%	7,358	6,962	257	292	5	4	0	NM
Michigan	4,368	4,079	7.1%	4,322	4,033	40	38	0	0	NM	NM
Ohio	6,288	7,134	-11.9%	1,686	1,716	4,598	5,405	0	0	NM	13
Wisconsin	3,823	3,671	4.1%	3,790	3,634	0	0	0	0	33	36
West North Central	19,941	19,648	1.5%	19,714	19,387	0	NM	8	NM	219	247
Iowa	3,114	3,297	-5.5%	2,954	3,122	0	0	7	NM	153	163
Kansas	2,624	2,587	1.4%	2,624	2,587	0	0	0	0	0	0
Minnesota	2,349	2,191	7.2%	2,323	2,145	0	0	0	NM	26	46
Missouri	6,679	6,391	4.5%	6,679	6,387	0	NM	1	0	0	NM
Nebraska	2,373	2,199	7.9%	2,341	2,170	0	0	0	0	32	29
North Dakota	2,596	2,756	-5.8%	2,589	2,749	0	0	0	0	NM	NM
South Dakota	204	227	-10.1%	204	227	0	0	0	0	0	0
South Atlantic	24,790	28,577	-13.2%	21,841	25,076	2,874	3,384	3	5	73	112
Delaware	113	120	-6.0%	0	0	113	120	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,871	4,764	-18.7%	3,826	4,582	27	166	0	0	NM	NM
Georgia	3,671	4,861	-24.5%	3,654	4,839	0	0	0	0	NM	23
Maryland	1,387	1,788	-22.5%	0	0	1,378	1,782	0	0	8	6
North Carolina	4,978	5,324	-6.5%	4,948	5,227	16	79	3	4	11	NM
South Carolina	2,057	2,611	-21.2%	2,055	2,601	0	0	0	0	NM	11
Virginia	1,468	1,791	-18.1%	1,391	1,655	61	109	0	NM	16	25
West Virginia	7,246	7,317	-1.0%	5,968	6,173	1,278	1,127	0	0	0	17
East South Central	13,402	14,919	-10.2%	13,094	14,527	245	309	0	0	63	82
Alabama	3,652	3,816	-4.3%	3,648	3,809	0	0	0	0	NM	NM
Kentucky	5,904	6,725	-12.2%	5,904	6,725	0	0	0	0	0	0
Mississippi	491	722	-32.0%	246	413	245	309	0	0	0	0
Tennessee	3,355	3,656	-8.2%	3,297	3,581	0	0	0	0	59	75
West South Central	19,826	20,238	-2.0%	10,101	10,115	9,697	10,078	0	0	28	45
Arkansas	2,834	2,648	7.0%	2,460	2,174	371	471	0	0	4	4
Louisiana	1,338	1,667	-19.7%	925	1,011	413	656	0	0	0	0
Oklahoma	1,750	2,017	-13.2%	1,545	1,767	181	208	0	0	25	42
Texas	13,904	13,906	0.0%	5,171	5,162	8,732	8,744	0	0	0	0
Mountain	16,407	16,603	-1.2%	14,713	14,861	1,618	1,630	0	0	76	112
Arizona	3,321	3,169	4.8%	3,321	3,169	0	0	0	0	0	0
Colorado	2,874	2,978	-3.5%	2,874	2,972	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	1,451	1,443	0.5%	26	NM	1,425	1,420	0	0	0	NM
Nevada	322	444	-27.5%	227	341	95	103	0	0	0	0
New Mexico	1,698	1,957	-13.2%	1,698	1,957	0	0	0	0	0	0
Utah	2,666	2,531	5.3%	2,589	2,419	37	NM	0	0	40	80
Wyoming	4,070	4,075	-0.1%	3,978	3,981	61	69	0	0	30	25
Pacific Contiguous	781	901	-13.3%	272	255	484	615	0	0	26	31
California	23	26	-11.4%	0	0	0	0	0	0	23	26
Oregon	272	255	6.7%	272	255	0	0	0	0	0	0
Washington	486	620	-21.6%	0	0	484	615	0	0	3	5
Pacific Noncontiguous	178	176	1.2%	NM	21	142	143	10	8	0	NM
Alaska	48	41	16.6%	NM	21	12	12	10	8	0	0
Hawaii	130	135	-3.5%	0	0	130	130	0	0	0	NM
U.S. Total	128,342	136,504	-6.0%	97,317	101,023	30,278	34,566	29	30	717	884

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	1,451	1,523	-4.7%	164	211	1,263	1,296	0	0	NM	16
Connecticut	94	59	60.7%	0	0	94	59	0	0	0	0
Maine	NM	40	NM	0	0	33	34	0	0	NM	5
Massachusetts	1,136	1,214	-6.4%	0	0	1,136	1,203	0	0	0	11
New Hampshire	164	211	-22.2%	164	211	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	29,434	32,949	-10.7%	0	0	29,105	32,491	0	0	329	457
New Jersey	699	752	-7.1%	0	0	699	752	0	0	0	0
New York	590	1,066	-44.6%	0	0	430	859	0	0	160	206
Pennsylvania	28,145	31,131	-9.6%	0	0	27,976	30,880	0	0	169	251
East North Central	163,401	155,187	5.3%	98,543	93,682	63,476	60,140	43	58	1,339	1,308
Illinois	33,571	33,542	0.1%	2,451	2,097	30,083	30,575	NM	20	1,009	850
Indiana	41,647	41,744	-0.2%	40,257	39,425	1,375	2,296	14	23	0	NM
Michigan	26,071	23,606	10.4%	25,758	23,276	273	250	0	15	NM	65
Ohio	41,699	37,960	9.8%	9,926	10,824	31,745	27,019	0	0	NM	117
Wisconsin	20,414	18,335	11.3%	20,151	18,060	0	0	0	0	262	275
West North Central	108,315	103,248	4.9%	106,747	101,538	1	12	67	90	1,500	1,608
Iowa	15,398	14,011	9.9%	14,409	12,917	0	0	50	70	939	1,023
Kansas	11,537	12,554	-8.1%	11,537	12,554	0	0	0	0	0	0
Minnesota	13,109	12,755	2.8%	12,801	12,437	0	0	1	NM	307	317
Missouri	40,000	35,913	11.4%	39,984	35,870	1	12	16	18	0	14
Nebraska	12,118	11,909	1.8%	11,906	11,703	0	0	0	0	212	206
North Dakota	14,949	14,821	0.9%	14,907	14,773	0	0	0	0	NM	49
South Dakota	1,203	1,284	-6.3%	1,203	1,284	0	0	0	0	0	0
South Atlantic	126,968	135,752	-6.5%	114,013	119,240	12,426	15,741	33	39	497	732
Delaware	200	340	-41.2%	0	0	200	340	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23,134	21,084	9.7%	23,001	20,540	27	441	0	0	NM	103
Georgia	19,254	21,514	-10.5%	19,136	21,384	0	0	0	0	NM	130
Maryland	4,601	7,659	-39.9%	0	0	4,558	7,616	0	0	43	43
North Carolina	20,877	20,453	2.1%	20,672	20,164	75	160	25	29	106	99
South Carolina	11,270	12,934	-12.9%	11,256	12,855	0	0	0	0	NM	79
Virginia	7,048	10,013	-29.6%	6,656	9,535	272	302	8	NM	111	167
West Virginia	40,584	41,754	-2.8%	33,291	34,763	7,293	6,881	0	0	0	110
East South Central	73,714	77,348	-4.7%	71,725	75,114	1,541	1,629	0	0	448	606
Alabama	18,797	18,409	2.1%	18,764	18,357	0	0	0	0	NM	51
Kentucky	36,083	38,314	-5.8%	36,083	38,314	0	0	0	0	0	0
Mississippi	2,839	2,974	-4.5%	1,298	1,346	1,541	1,629	0	0	0	0
Tennessee	15,994	17,651	-9.4%	15,579	17,097	0	0	0	0	415	554
West South Central	106,960	88,746	20.5%	52,060	45,329	54,696	43,151	0	0	204	266
Arkansas	14,437	11,509	25.4%	13,004	9,108	1,406	2,371	0	0	27	30
Louisiana	7,459	6,997	6.6%	4,494	4,767	2,965	2,231	0	0	0	0
Oklahoma	9,124	8,932	2.2%	8,076	7,708	871	987	0	0	178	236
Texas	75,940	61,308	23.9%	26,486	23,746	49,454	37,562	0	0	0	0
Mountain	90,241	86,876	3.9%	81,594	78,138	8,334	8,267	0	0	313	471
Arizona	17,441	15,951	9.3%	17,441	15,951	0	0	0	0	0	0
Colorado	17,161	16,800	2.1%	17,155	16,762	0	34	0	0	5	NM
Idaho	NM	38	NM	0	0	0	0	0	0	NM	38
Montana	7,294	7,298	-0.1%	168	112	7,124	7,182	0	0	2	NM
Nevada	1,137	1,197	-5.0%	572	715	565	482	0	0	0	0
New Mexico	10,892	9,869	10.4%	10,892	9,869	0	0	0	0	0	0
Utah	14,055	13,704	2.6%	13,729	13,275	234	191	0	0	92	238
Wyoming	22,227	22,020	0.9%	21,636	21,455	411	378	0	0	181	187
Pacific Contiguous	2,297	2,035	12.9%	826	665	1,293	1,162	0	0	178	208
California	162	188	-13.7%	0	0	0	0	0	0	162	188
Oregon	826	665	24.2%	826	665	0	0	0	0	0	0
Washington	1,309	1,183	10.7%	0	0	1,293	1,162	0	0	16	20
Pacific Noncontiguous	1,049	1,224	-14.3%	NM	185	835	962	62	61	0	NM
Alaska	284	339	-16.3%	NM	185	70	92	62	61	0	0
Hawaii	765	885	-13.6%	0	0	765	870	0	0	0	NM
U.S. Total	703,830	684,888	2.8%	525,822	514,103	172,970	164,850	205	248	4,832	5,688

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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	27	63	-57.1%	1	10	22	46	2	NM	NM	NM
Connecticut	6	16	-61.1%	1	NM	5	14	NM	NM	0	NM
Maine	8	6	46.0%	0	NM	7	4	0	NM	NM	NM
Massachusetts	11	32	-66.1%	NM	1	9	29	1	NM	0	NM
New Hampshire	1	7	-83.2%	0	7	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	0	1	NM	NM	0	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	46	97	-52.8%	7	28	33	63	3	3	2	3
New Jersey	3	3	24.2%	NM	NM	3	2	0	NM	NM	NM
New York	20	66	-70.2%	7	28	8	33	3	3	2	2
Pennsylvania	23	29	-20.4%	0	NM	22	28	1	NM	NM	NM
East North Central	39	48	-20.2%	24	31	13	16	1	NM	1	1
Illinois	3	4	-34.9%	1	NM	2	4	0	NM	0	0
Indiana	8	11	-28.6%	7	10	0	0	0	NM	1	1
Michigan	10	13	-29.0%	9	13	0	0	0	0	NM	NM
Ohio	16	17	-7.9%	5	5	11	12	0	NM	0	NM
Wisconsin	NM	3	NM	NM	3	0	0	0	NM	NM	NM
West North Central	16	19	-14.1%	16	18	0	NM	0	NM	0	NM
Iowa	5	5	3.6%	5	5	0	NM	0	NM	0	NM
Kansas	2	2	-28.8%	2	2	0	0	0	0	0	0
Minnesota	NM	5	NM	NM	5	NM	NM	0	NM	0	NM
Missouri	3	4	-40.9%	3	4	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	1	1	-16.6%	1	1	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	126	341	-62.9%	95	294	23	37	4	NM	NM	9
Delaware	NM	5	NM	0	NM	NM	5	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	28	214	-86.9%	27	208	0	4	0	0	NM	NM
Georgia	11	9	16.4%	8	5	NM	NM	NM	NM	NM	NM
Maryland	14	16	-13.4%	0	1	14	15	0	NM	0	NM
North Carolina	17	19	-9.8%	14	13	2	NM	0	NM	NM	NM
South Carolina	10	8	36.9%	10	7	0	NM	0	NM	1	NM
Virginia	36	64	-44.5%	28	54	4	9	3	NM	NM	NM
West Virginia	9	6	34.6%	8	5	0	2	0	0	0	0
East South Central	27	34	-21.3%	26	31	NM	NM	0	NM	NM	NM
Alabama	NM	NM	NM	2	1	NM	NM	0	0	NM	NM
Kentucky	8	12	-30.8%	8	12	0	0	0	0	0	0
Mississippi	1	2	-40.7%	1	2	0	0	0	0	0	0
Tennessee	15	16	-9.9%	15	16	0	NM	0	NM	0	NM
West South Central	12	8	50.1%	6	6	5	1	0	NM	1	NM
Arkansas	4	1	185.2%	NM	1	3	1	0	0	NM	NM
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	1	0	172.0%	1	0	0	0	0	NM	0	NM
Texas	6	5	12.9%	3	4	2	1	0	NM	0	NM
Mountain	17	16	2.9%	15	13	2	3	0	NM	0	NM
Arizona	6	4	50.1%	6	4	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	1	3	-46.4%	NM	NM	1	2	0	0	0	0
Nevada	2	2	-30.1%	1	2	0	0	0	0	0	0
New Mexico	NM	3	NM	NM	3	0	0	0	0	0	NM
Utah	2	2	-1.1%	2	2	0	NM	0	0	0	NM
Wyoming	2	2	-4.8%	2	2	0	0	0	0	0	NM
Pacific Contiguous	10	20	-50.0%	5	4	4	2	NM	NM	NM	13
California	3	16	-79.0%	3	3	0	NM	NM	NM	0	13
Oregon	2	1	92.4%	2	1	0	0	0	NM	0	0
Washington	4	2	102.5%	NM	NM	4	1	NM	NM	NM	NM
Pacific Noncontiguous	629	616	2.2%	468	467	139	131	0	NM	22	17
Alaska	68	53	26.8%	64	49	0	0	NM	NM	4	3
Hawaii	562	562	-0.1%	405	418	139	131	0	0	18	14
U.S. Total	949	1,261	-24.8%	663	903	242	300	11	9	34	49

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	207	287	-28.1%	25	37	144	209	27	28	NM	13
Connecticut	42	46	-9.7%	4	4	36	36	NM	NM	1	NM
Maine	31	97	-68.2%	0	NM	21	85	1	NM	NM	10
Massachusetts	104	108	-2.9%	NM	13	84	81	14	13	1	NM
New Hampshire	20	18	7.0%	11	13	NM	NM	8	NM	0	NM
Rhode Island	NM	17	NM	3	6	NM	6	2	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	385	649	-40.7%	87	187	249	412	23	19	26	31
New Jersey	40	62	-34.6%	NM	NM	40	59	0	NM	NM	NM
New York	212	424	-50.1%	87	186	80	199	20	17	25	23
Pennsylvania	133	163	-18.8%	0	NM	128	155	2	NM	NM	7
East North Central	274	333	-17.7%	170	204	93	116	2	3	9	11
Illinois	28	43	-34.6%	3	3	26	39	0	1	0	0
Indiana	69	74	-6.7%	62	67	0	NM	0	NM	6	7
Michigan	52	80	-34.7%	49	78	0	0	2	1	NM	1
Ohio	106	121	-11.8%	37	43	68	75	0	NM	1	2
Wisconsin	NM	16	NM	NM	13	0	2	0	NM	NM	NM
West North Central	169	130	29.8%	166	126	1	NM	1	NM	1	NM
Iowa	49	35	37.9%	48	35	0	0	0	NM	0	NM
Kansas	30	14	107.3%	30	14	0	0	0	0	0	0
Minnesota	NM	16	NM	NM	13	NM	NM	1	NM	1	NM
Missouri	30	43	-29.9%	30	43	0	NM	0	NM	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	24	17	40.0%	24	17	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,138	1,427	-20.3%	918	1,041	168	330	17	4	NM	52
Delaware	NM	47	NM	0	NM	NM	45	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	325	420	-22.7%	317	403	2	6	0	0	NM	11
Georgia	70	90	-21.6%	41	45	NM	20	NM	2	NM	23
Maryland	60	127	-52.5%	0	6	58	118	1	NM	1	2
North Carolina	208	190	9.3%	176	141	27	44	0	NM	NM	NM
South Carolina	79	83	-5.6%	72	73	1	NM	0	NM	5	9
Virginia	309	404	-23.5%	237	307	55	93	15	NM	NM	NM
West Virginia	73	66	11.1%	73	64	0	2	0	0	0	0
East South Central	155	179	-13.0%	143	162	NM	5	0	NM	NM	12
Alabama	NM	34	NM	15	18	NM	5	0	0	NM	11
Kentucky	60	64	-5.7%	60	64	0	0	0	0	0	0
Mississippi	6	10	-38.3%	5	9	0	0	0	0	1	1
Tennessee	64	71	-9.9%	63	70	0	NM	0	NM	1	NM
West South Central	96	95	1.1%	51	62	43	29	0	NM	2	4
Arkansas	32	25	28.5%	NM	17	21	6	0	0	NM	2
Louisiana	NM	11	NM	NM	9	0	2	0	0	0	0
Oklahoma	12	10	16.0%	11	9	0	0	0	NM	1	1
Texas	44	49	-11.6%	21	27	22	21	0	NM	1	NM
Mountain	136	135	0.5%	123	121	13	14	0	NM	0	NM
Arizona	35	34	4.5%	35	34	0	0	0	NM	0	0
Colorado	NM	5	NM	NM	5	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	10	12	-18.9%	NM	NM	9	12	0	0	0	0
Nevada	5	8	-33.9%	3	7	2	2	0	0	0	0
New Mexico	NM	32	NM	NM	32	0	0	0	0	0	NM
Utah	25	17	48.6%	24	16	1	NM	0	0	0	NM
Wyoming	29	27	6.5%	29	27	0	0	0	0	0	NM
Pacific Contiguous	49	77	-36.9%	26	22	10	9	NM	NM	NM	46
California	28	63	-54.9%	19	19	2	3	NM	NM	6	41
Oregon	5	2	116.4%	5	2	0	0	0	NM	0	0
Washington	15	12	29.6%	NM	NM	7	5	NM	NM	NM	5
Pacific Noncontiguous	4,302	4,028	6.8%	3,308	3,140	847	782	5	6	142	101
Alaska	512	412	24.1%	483	386	0	0	NM	4	25	23
Hawaii	3,790	3,616	4.8%	2,825	2,754	847	782	1	2	117	78
U.S. Total	6,910	7,341	-5.9%	5,017	5,101	1,569	1,908	75	61	250	272

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 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	26	NM	0	0	0	0	0	0	NM	26
New Jersey	6	NM	NM	0	0	0	0	0	0	6	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	173	187	-7.3%	90	75	68	94	0	0	16	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	93	80	15.7%	77	65	0	0	0	0	16	NM
Ohio	68	96	-28.9%	0	0	68	94	0	0	0	NM
Wisconsin	12	11	12.8%	12	10	0	0	0	0	0	1
West North Central	0	NM	NM	0	0	0	0	0	1	0	NM
Iowa	0	NM	NM	0	0	0	0	0	1	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	105	242	-56.5%	88	233	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	88	233	-62.2%	88	233	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	31	120	-74.1%	31	120	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	31	120	-74.1%	31	120	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	497	435	14.2%	464	405	0	0	0	0	33	30
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	486	425	14.3%	464	405	0	0	0	0	22	20
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	11	10	11.1%	0	0	0	0	0	0	11	10
Mountain	39	41	-6.2%	0	0	39	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	39	41	-6.2%	0	0	39	41	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	865	1,057	-18.2%	673	833	107	136	0	1	85	87

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	157	NM	0	0	0	0	0	0	NM	157
New Jersey	42	47	-9.0%	0	0	0	0	0	0	42	47
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	111	NM	0	0	0	0	0	0	NM	111
East North Central	1,173	1,517	-22.7%	541	864	555	522	0	0	77	132
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	578	428	35.2%	501	333	0	3	0	0	77	92
Ohio	555	529	5.1%	0	0	555	520	0	0	0	NM
Wisconsin	40	64	-38.0%	40	33	0	0	0	0	0	31
West North Central	26	40	-33.3%	0	0	0	0	4	4	23	36
Iowa	26	40	-33.3%	0	0	0	0	4	4	23	36
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	570	1,437	-60.3%	478	1,378	0	0	0	0	NM	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	478	1,378	-65.3%	478	1,378	0	0	0	0	0	0
Georgia	NM	59	NM	0	0	0	0	0	0	NM	59
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	427	679	-37.1%	427	679	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	427	679	-37.1%	427	679	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	2,848	2,806	1.5%	2,657	2,615	0	0	0	0	191	190
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,787	2,733	2.0%	2,657	2,615	0	0	0	0	130	117
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	61	73	-16.3%	0	0	0	0	0	0	61	73
Mountain	248	244	1.8%	0	0	248	244	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	248	244	1.8%	0	0	248	244	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	5,425	6,880	-21.1%	4,104	5,536	803	766	4	4	514	573

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	5,169	6,315	-18.2%	NM	79	4,936	6,015	67	94	115	128
Connecticut	1,558	1,623	-4.0%	4	0	1,480	1,540	26	38	48	46
Maine	213	519	-59.0%	0	0	166	456	3	NM	44	61
Massachusetts	2,395	2,813	-14.9%	NM	63	2,297	2,685	31	46	21	19
New Hampshire	402	571	-29.6%	0	16	399	551	0	NM	3	NM
Rhode Island	600	788	-23.8%	0	0	594	783	6	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	15,341	19,487	-21.3%	1,277	1,557	13,778	17,634	101	111	185	184
New Jersey	3,104	5,110	-39.3%	16	NM	3,035	5,044	18	21	35	34
New York	5,685	6,806	-16.5%	1,259	1,543	4,326	5,153	71	75	29	34
Pennsylvania	6,551	7,571	-13.5%	1	NM	6,417	7,437	12	15	121	117
East North Central	10,887	12,141	-10.3%	4,958	5,567	5,555	6,251	140	145	233	178
Illinois	1,597	2,526	-36.8%	NM	259	1,342	2,168	42	43	63	55
Indiana	1,804	1,945	-7.3%	1,416	1,569	268	312	17	19	102	46
Michigan	2,784	3,066	-9.2%	1,053	1,379	1,644	1,582	49	57	37	48
Ohio	2,820	2,837	-0.6%	633	789	2,148	2,026	28	15	10	NM
Wisconsin	1,883	1,767	6.5%	1,705	1,572	153	163	4	NM	21	21
West North Central	3,019	3,099	-2.6%	2,636	2,572	291	448	29	32	64	47
Iowa	508	439	15.6%	455	414	NM	NM	9	NM	43	NM
Kansas	433	338	27.9%	427	327	0	0	0	0	6	NM
Minnesota	1,105	1,117	-1.0%	939	886	145	205	9	NM	12	14
Missouri	531	853	-37.7%	373	596	145	243	11	12	3	NM
Nebraska	239	118	102.1%	239	118	0	0	0	NM	0	0
North Dakota	NM	106	NM	NM	104	0	0	0	0	1	NM
South Dakota	164	127	29.2%	164	127	0	0	0	0	0	0
South Atlantic	34,072	34,773	-2.0%	27,433	27,332	6,187	6,994	47	68	405	378
Delaware	604	1,004	-39.9%	3	NM	503	896	0	0	98	99
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	16,486	16,271	1.3%	15,438	14,628	930	1,515	2	NM	116	123
Georgia	5,467	5,768	-5.2%	3,939	4,341	1,457	1,383	0	0	71	44
Maryland	772	1,001	-22.9%	0	0	721	938	42	53	8	9
North Carolina	3,732	3,806	-1.9%	3,171	3,196	547	591	1	2	13	18
South Carolina	1,606	1,859	-13.6%	1,347	1,528	250	322	0	NM	9	NM
Virginia	5,218	4,962	5.1%	3,518	3,600	1,654	1,317	1	NM	45	45
West Virginia	187	95	95.8%	17	30	126	32	0	0	44	34
East South Central	12,785	13,336	-4.1%	8,520	8,562	4,066	4,579	5	16	194	178
Alabama	5,669	6,008	-5.7%	1,931	1,791	3,656	4,135	0	0	82	83
Kentucky	934	942	-0.8%	869	826	43	95	0	0	21	21
Mississippi	5,102	5,155	-1.0%	4,700	4,769	366	350	0	NM	36	35
Tennessee	1,081	1,230	-12.2%	1,020	1,176	1	0	5	15	55	40
West South Central	37,032	37,334	-0.8%	11,346	13,158	20,026	18,192	92	91	5,568	5,893
Arkansas	1,982	2,183	-9.2%	597	986	1,365	1,182	0	NM	21	15
Louisiana	5,755	6,681	-13.9%	3,351	4,001	354	458	13	NM	2,036	2,206
Oklahoma	4,391	4,262	3.0%	2,728	2,877	1,639	1,368	0	NM	24	NM
Texas	24,904	24,209	2.9%	4,670	5,294	16,668	15,185	79	74	3,487	3,657
Mountain	11,575	11,937	-3.0%	8,594	8,501	2,827	3,297	38	36	116	103
Arizona	4,521	4,892	-7.6%	2,681	2,494	1,827	2,387	14	12	0	0
Colorado	1,626	1,551	4.8%	1,360	1,300	265	250	0	0	2	NM
Idaho	428	341	25.6%	257	264	162	68	3	0	6	9
Montana	69	86	-19.9%	52	76	16	NM	0	0	0	0
Nevada	3,048	3,026	0.7%	2,816	2,797	193	196	5	6	34	27
New Mexico	1,081	1,084	-0.3%	723	707	349	366	10	11	0	0
Utah	719	903	-20.5%	662	836	16	NM	6	7	35	40
Wyoming	84	54	55.8%	44	NM	0	NM	0	0	39	26
Pacific Contiguous	12,381	13,218	-6.3%	4,869	4,957	6,437	7,091	162	171	914	1,000
California	9,653	10,421	-7.4%	3,269	3,460	5,325	5,809	157	163	902	989
Oregon	1,487	1,495	-0.6%	737	713	740	770	4	NM	NM	7
Washington	1,241	1,302	-4.7%	863	784	372	512	NM	NM	6	4
Pacific Noncontiguous	175	221	-20.8%	170	215	0	0	0	0	5	NM
Alaska	175	221	-20.8%	170	215	0	0	0	0	5	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	142,436	151,860	-6.2%	69,854	72,500	64,103	70,502	680	763	7,798	8,095

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	28,374	31,846	-10.9%	NM	155	27,006	30,437	472	563	691	692
Connecticut	8,656	10,448	-17.1%	26	1	8,158	9,962	182	221	290	265
Maine	1,092	2,206	-50.5%	0	0	832	1,885	17	NM	243	307
Massachusetts	13,677	12,971	5.4%	NM	130	13,140	12,453	239	285	140	103
New Hampshire	1,963	2,485	-21.0%	21	24	1,917	2,432	7	NM	18	NM
Rhode Island	2,985	3,735	-20.1%	0	0	2,958	3,705	27	30	0	0
Vermont	1	NM	NM	1	0	0	0	0	NM	0	0
Middle Atlantic	77,351	95,076	-18.6%	5,938	7,022	69,779	86,292	576	666	1,058	1,095
New Jersey	16,581	24,909	-33.4%	66	NM	16,197	24,542	109	121	209	197
New York	28,550	32,558	-12.3%	5,868	6,969	22,120	24,923	388	465	174	201
Pennsylvania	32,220	37,609	-14.3%	4	NM	31,462	36,827	79	80	675	697
East North Central	53,645	66,902	-19.8%	22,714	29,587	28,453	35,271	839	851	1,640	1,192
Illinois	7,253	10,177	-28.7%	NM	970	6,209	8,680	220	210	368	317
Indiana	9,980	11,587	-13.9%	7,928	9,176	1,228	1,998	111	111	712	302
Michigan	14,252	17,827	-20.1%	4,289	6,037	9,362	11,078	323	376	277	336
Ohio	15,001	16,902	-11.3%	3,750	3,997	11,008	12,792	150	80	93	34
Wisconsin	7,161	10,409	-31.2%	6,291	9,407	646	723	34	75	190	204
West North Central	11,085	14,314	-22.6%	9,434	11,752	1,198	2,039	155	205	298	318
Iowa	1,759	1,990	-11.6%	1,549	1,810	NM	NM	45	59	165	121
Kansas	1,437	1,183	21.4%	1,412	1,135	0	0	0	0	25	49
Minnesota	4,134	5,899	-29.9%	3,466	4,782	532	930	59	79	78	108
Missouri	2,150	3,704	-41.9%	1,407	2,516	666	1,109	50	65	27	NM
Nebraska	728	405	79.7%	727	393	0	0	1	NM	0	11
North Dakota	NM	512	NM	NM	496	0	0	0	0	3	NM
South Dakota	591	620	-4.6%	591	620	0	0	0	0	0	0
South Atlantic	185,911	189,006	-1.6%	152,912	153,429	30,112	32,976	312	373	2,574	2,228
Delaware	3,244	4,485	-27.7%	5	NM	2,705	3,888	0	0	534	568
District of Columbia	16	32	-51.6%	0	0	0	0	16	32	0	0
Florida	90,135	92,886	-3.0%	84,985	84,364	4,340	7,704	15	30	795	788
Georgia	30,039	32,089	-6.4%	22,306	24,403	7,302	7,380	0	0	432	306
Maryland	3,707	3,221	15.1%	0	0	3,383	2,875	271	295	53	50
North Carolina	22,219	23,769	-6.5%	19,080	20,804	3,068	2,849	6	6	65	110
South Carolina	9,144	8,781	4.1%	7,796	7,125	1,273	1,601	0	NM	75	49
Virginia	26,745	23,078	15.9%	18,654	16,629	7,746	6,147	5	NM	340	299
West Virginia	661	664	-0.4%	86	76	295	532	0	0	281	57
East South Central	65,103	74,275	-12.3%	43,020	47,831	20,735	25,180	71	89	1,278	1,175
Alabama	29,198	32,973	-11.4%	10,397	9,865	18,216	22,487	0	0	585	621
Kentucky	3,531	4,926	-28.3%	3,215	4,490	169	302	0	0	147	134
Mississippi	26,541	29,870	-11.1%	23,958	27,237	2,344	2,391	3	NM	236	237
Tennessee	5,834	6,505	-10.3%	5,451	6,239	6	0	68	84	310	182
West South Central	175,564	208,733	-15.9%	48,376	66,554	89,762	102,505	520	530	36,906	39,143
Arkansas	9,157	11,101	-17.5%	2,264	4,444	6,728	6,480	0	NM	165	176
Louisiana	33,353	40,324	-17.3%	17,076	21,462	2,445	3,615	86	100	13,747	15,147
Oklahoma	17,339	21,759	-20.3%	10,714	14,767	6,499	6,881	0	NM	125	102
Texas	115,715	135,548	-14.6%	18,323	25,881	74,090	85,528	434	420	22,869	23,719
Mountain	48,753	58,836	-17.1%	37,265	44,569	10,421	13,211	243	209	825	847
Arizona	15,388	19,859	-22.5%	10,187	12,064	5,120	7,725	82	70	0	0
Colorado	7,161	8,000	-10.5%	5,993	6,772	1,156	1,216	0	0	12	NM
Idaho	1,781	1,887	-5.6%	1,033	1,149	676	686	23	0	49	52
Montana	278	415	-32.8%	231	369	46	45	0	0	2	0
Nevada	14,909	17,006	-12.3%	13,518	15,610	1,207	1,173	33	35	152	188
New Mexico	5,439	5,885	-7.6%	3,273	3,547	2,102	2,266	63	62	1	NM
Utah	3,334	5,336	-37.5%	2,920	4,950	114	99	41	42	259	245
Wyoming	462	450	2.8%	111	108	1	NM	0	0	351	341
Pacific Contiguous	55,166	65,582	-15.9%	21,467	23,817	26,423	34,354	1,103	1,028	6,173	6,383
California	44,656	52,341	-14.7%	15,532	17,182	21,992	27,893	1,063	977	6,069	6,290
Oregon	5,423	7,380	-26.5%	2,628	3,212	2,717	4,090	29	37	NM	41
Washington	5,087	5,861	-13.2%	3,307	3,423	1,714	2,371	NM	NM	55	53
Pacific Noncontiguous	829	1,403	-40.9%	788	1,359	0	0	2	2	39	42
Alaska	829	1,403	-40.9%	788	1,359	0	0	2	2	39	42
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	701,783	805,973	-12.9%	342,120	386,076	303,888	362,265	4,292	4,515	51,482	53,116

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 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	69	62	11.5%	0	0	0	NM	0	0	69	62
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	51	46	11.4%	0	0	0	NM	0	0	51	46
East North Central	537	389	38.0%	19	23	206	162	0	0	312	204
Illinois	14	NM	NM	0	0	0	0	0	0	14	NM
Indiana	285	166	71.6%	0	NM	0	0	0	0	285	164
Michigan	140	128	9.4%	19	21	121	107	0	0	0	0
Ohio	98	73	34.4%	0	0	86	54	0	0	13	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	NM	NM	0	0	0	0	0	0	4	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	NM	NM	0	0	0	0	0	0	4	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	35	36	-3.1%	0	0	0	0	0	0	35	36
Delaware	31	33	-6.1%	0	0	0	0	0	0	31	33
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	0	67.0%	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	3	23.7%	0	0	0	0	0	0	3	3
East South Central	2	NM	NM	0	0	0	0	0	0	2	NM
Alabama	0	NM	NM	0	0	0	0	0	0	0	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	4.3%	0	0	0	0	0	0	1	1
West South Central	410	405	1.4%	0	0	134	124	0	0	276	281
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	159	159	-0.1%	0	0	0	0	0	0	159	159
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	251	246	2.3%	0	0	134	124	0	0	117	122
Mountain	26	7	269.7%	0	0	1	0	0	0	24	7
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	NM	0	0	1	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	2	NM	NM	0	0	0	0	0	0	2	NM
Wyoming	22	6	259.3%	0	0	0	0	0	0	22	6
Pacific Contiguous	144	156	-7.8%	0	0	33	36	0	0	111	121
California	111	121	-8.0%	0	0	0	0	0	0	111	121
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	33	36	-7.0%	0	0	33	36	0	0	0	0
Pacific Noncontiguous	4	NM	NM	0	0	0	0	0	0	4	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	4	NM	NM	0	0	0	0	0	0	4	NM
U.S. Total	1,231	1,066	15.5%	19	23	375	322	0	0	837	721

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 July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	430	458	-6.1%	0	0	0	NM	0	0	430	458
New Jersey	129	148	-13.0%	0	0	0	0	0	0	129	148
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	301	310	-2.8%	0	0	0	NM	0	0	301	310
East North Central	3,398	3,037	11.9%	110	74	1,350	1,373	0	0	1,938	1,591
Illinois	103	187	-44.9%	0	0	0	4	0	0	103	183
Indiana	1,737	1,286	35.0%	11	NM	0	0	0	0	1,726	1,274
Michigan	975	967	0.8%	99	61	876	906	0	0	0	0
Ohio	583	597	-2.4%	0	0	474	462	0	0	109	135
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	21	31	-30.5%	0	0	0	0	0	0	21	31
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	21	31	-30.5%	0	0	0	0	0	0	21	31
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	235	177	32.5%	0	0	0	0	0	0	235	177
Delaware	213	161	32.2%	0	0	0	0	0	0	213	161
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3	2	33.1%	0	0	0	0	0	0	3	2
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	19	14	36.4%	0	0	0	0	0	0	19	14
East South Central	18	24	-26.0%	0	0	0	0	0	0	18	24
Alabama	9	15	-41.0%	0	0	0	0	0	0	9	15
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	9	9	0.8%	0	0	0	0	0	0	9	9
West South Central	2,767	2,830	-2.2%	0	0	827	727	0	0	1,940	2,104
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,197	1,326	-9.7%	0	0	0	0	0	0	1,197	1,326
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,570	1,504	4.3%	0	0	827	727	0	0	742	778
Mountain	222	230	-3.6%	0	0	10	7	0	0	213	224
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	10	6	59.1%	0	0	10	6	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	8	NM	NM	0	0	0	0	0	0	8	NM
Wyoming	205	219	-6.6%	0	0	0	0	0	0	205	219
Pacific Contiguous	983	1,134	-13.3%	0	0	193	238	0	0	790	896
California	790	896	-11.8%	0	0	0	0	0	0	790	896
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	193	238	-19.1%	0	0	193	238	0	0	0	0
Pacific Noncontiguous	30	26	14.8%	0	0	0	0	0	0	30	26
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	30	26	14.8%	0	0	0	0	0	0	30	26
U.S. Total	8,104	7,948	2.0%	110	74	2,380	2,344	0	0	5,615	5,530

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, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	2,972	2,976	-0.1%	0	0	2,972	2,976	0	0	0	0
Connecticut	1,540	1,545	-0.3%	0	0	1,540	1,545	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	502	501	0.1%	0	0	502	501	0	0	0	0
New Hampshire	930	929	0.1%	0	0	930	929	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	14,239	12,349	15.3%	0	0	14,239	12,349	0	0	0	0
New Jersey	2,987	1,355	120.4%	0	0	2,987	1,355	0	0	0	0
New York	3,901	3,667	6.4%	0	0	3,901	3,667	0	0	0	0
Pennsylvania	7,351	7,327	0.3%	0	0	7,351	7,327	0	0	0	0
East North Central	14,134	13,782	2.5%	2,452	2,101	11,682	11,681	0	0	0	0
Illinois	8,613	8,625	-0.1%	0	0	8,613	8,625	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,044	2,684	13.4%	2,452	2,101	592	583	0	0	0	0
Ohio	1,592	1,583	0.6%	0	0	1,592	1,583	0	0	0	0
Wisconsin	885	891	-0.7%	0	0	885	891	0	0	0	0
West North Central	4,038	4,390	-8.0%	3,610	3,956	428	433	0	0	0	0
Iowa	428	433	-1.3%	0	0	428	433	0	0	0	0
Kansas	883	878	0.6%	883	878	0	0	0	0	0	0
Minnesota	1,262	1,263	-0.1%	1,262	1,263	0	0	0	0	0	0
Missouri	890	889	0.2%	890	889	0	0	0	0	0	0
Nebraska	576	927	-37.9%	576	927	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	18,381	18,280	0.6%	17,083	16,999	1,299	1,281	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,709	2,646	2.4%	2,709	2,646	0	0	0	0	0	0
Georgia	3,041	3,024	0.6%	3,041	3,024	0	0	0	0	0	0
Maryland	1,299	1,281	1.4%	0	0	1,299	1,281	0	0	0	0
North Carolina	3,816	3,805	0.3%	3,816	3,805	0	0	0	0	0	0
South Carolina	4,854	4,895	-0.8%	4,854	4,895	0	0	0	0	0	0
Virginia	2,663	2,631	1.2%	2,663	2,631	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,106	6,516	9.1%	7,106	6,516	0	0	0	0	0	0
Alabama	3,744	3,532	6.0%	3,744	3,532	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	861	294	192.4%	861	294	0	0	0	0	0	0
Tennessee	2,501	2,690	-7.0%	2,501	2,690	0	0	0	0	0	0
West South Central	5,087	6,636	-23.3%	2,265	2,925	2,821	3,710	0	0	0	0
Arkansas	1,137	1,354	-16.0%	1,137	1,354	0	0	0	0	0	0
Louisiana	1,129	1,572	-28.2%	1,129	1,572	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,821	3,710	-24.0%	0	0	2,821	3,710	0	0	0	0
Mountain	2,853	2,896	-1.5%	2,853	2,896	0	0	0	0	0	0
Arizona	2,853	2,896	-1.5%	2,853	2,896	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,504	2,526	-0.9%	2,504	2,526	0	0	0	0	0	0
California	1,648	1,695	-2.8%	1,648	1,695	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	856	830	3.1%	856	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	71,314	70,349	1.4%	37,874	37,919	33,440	32,430	0	0	0	0

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	17,869	18,564	-3.7%	0	0	17,869	18,564	0	0	0	0
Connecticut	9,876	9,019	9.5%	0	0	9,876	9,019	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,591	3,366	-23.0%	0	0	2,591	3,366	0	0	0	0
New Hampshire	5,401	6,179	-12.6%	0	0	5,401	6,179	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	91,131	88,151	3.4%	0	0	91,131	88,151	0	0	0	0
New Jersey	19,764	16,868	17.2%	0	0	19,764	16,868	0	0	0	0
New York	23,357	23,325	0.1%	0	0	23,357	23,325	0	0	0	0
Pennsylvania	48,010	47,958	0.1%	0	0	48,010	47,958	0	0	0	0
East North Central	90,134	91,094	-1.1%	16,099	15,222	74,034	75,873	0	0	0	0
Illinois	55,537	56,779	-2.2%	0	0	55,537	56,779	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	19,228	19,334	-0.5%	16,099	15,222	3,128	4,112	0	0	0	0
Ohio	9,725	9,227	5.4%	0	0	9,725	9,227	0	0	0	0
Wisconsin	5,645	5,755	-1.9%	0	0	5,645	5,755	0	0	0	0
West North Central	27,395	28,687	-4.5%	24,325	25,712	3,070	2,975	0	0	0	0
Iowa	3,070	2,975	3.2%	0	0	3,070	2,975	0	0	0	0
Kansas	6,181	6,184	0.0%	6,181	6,184	0	0	0	0	0	0
Minnesota	8,080	8,099	-0.2%	8,080	8,099	0	0	0	0	0	0
Missouri	6,070	4,975	22.0%	6,070	4,975	0	0	0	0	0	0
Nebraska	3,994	6,454	-38.1%	3,994	6,454	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	118,080	121,440	-2.8%	109,488	113,070	8,592	8,370	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	16,833	18,020	-6.6%	16,833	18,020	0	0	0	0	0	0
Georgia	19,585	19,404	0.9%	19,585	19,404	0	0	0	0	0	0
Maryland	8,592	8,370	2.6%	0	0	8,592	8,370	0	0	0	0
North Carolina	24,205	24,743	-2.2%	24,205	24,743	0	0	0	0	0	0
South Carolina	30,884	33,070	-6.6%	30,884	33,070	0	0	0	0	0	0
Virginia	17,980	17,833	0.8%	17,980	17,833	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	46,203	44,061	4.9%	46,203	44,061	0	0	0	0	0	0
Alabama	24,631	23,678	4.0%	24,631	23,678	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	4,936	4,656	6.0%	4,936	4,656	0	0	0	0	0	0
Tennessee	16,635	15,727	5.8%	16,635	15,727	0	0	0	0	0	0
West South Central	35,171	43,329	-18.8%	13,585	18,670	21,586	24,659	0	0	0	0
Arkansas	5,897	9,149	-35.5%	5,897	9,149	0	0	0	0	0	0
Louisiana	7,688	9,521	-19.3%	7,688	9,521	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	21,586	24,659	-12.5%	0	0	21,586	24,659	0	0	0	0
Mountain	18,773	19,092	-1.7%	18,773	19,092	0	0	0	0	0	0
Arizona	18,773	19,092	-1.7%	18,773	19,092	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	13,890	16,360	-15.1%	13,890	16,360	0	0	0	0	0	0
California	9,601	10,671	-10.0%	9,601	10,671	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,289	5,689	-24.6%	4,289	5,689	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	458,644	470,778	-2.6%	242,363	252,187	216,282	218,591	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	665	416	60.0%	92	54	536	339	0	NM	37	22
Connecticut	29	NM	NM	1	NM	28	NM	0	0	0	0
Maine	316	221	42.9%	0	0	279	200	0	0	37	22
Massachusetts	81	43	86.9%	21	NM	60	NM	0	NM	0	NM
New Hampshire	125	57	120.0%	29	13	96	43	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	113	74	51.7%	41	NM	72	NM	0	0	0	0
Middle Atlantic	2,840	2,271	25.1%	2,211	1,946	621	321	1	NM	7	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,578	2,180	18.3%	2,204	1,942	365	234	1	NM	7	NM
Pennsylvania	260	90	190.1%	7	NM	253	86	0	0	0	0
East North Central	431	406	6.1%	371	356	45	NM	0	NM	16	NM
Illinois	12	NM	NM	NM	NM	8	NM	0	NM	0	0
Indiana	36	42	-13.5%	36	42	0	0	0	0	0	0
Michigan	131	121	8.1%	121	112	NM	NM	0	0	NM	NM
Ohio	45	44	1.8%	24	30	20	NM	0	0	0	0
Wisconsin	207	189	9.4%	185	168	NM	NM	0	0	13	NM
West North Central	1,074	1,053	2.0%	1,041	1,025	21	NM	0	0	12	NM
Iowa	82	75	9.3%	82	75	1	NM	0	0	0	0
Kansas	4	NM	NM	0	0	4	NM	0	0	0	0
Minnesota	59	70	-15.5%	31	NM	NM	NM	0	0	12	NM
Missouri	155	116	33.1%	155	116	0	0	0	0	0	0
Nebraska	148	135	9.7%	148	135	0	0	0	0	0	0
North Dakota	188	195	-3.4%	188	195	0	0	0	0	0	0
South Dakota	437	460	-4.9%	437	460	0	0	0	0	0	0
South Atlantic	1,473	889	65.6%	1,219	767	199	76	1	NM	54	45
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23	NM	NM	23	NM	0	0	0	0	0	0
Georgia	285	195	45.8%	283	193	1	NM	0	0	1	NM
Maryland	149	35	327.6%	0	0	149	35	0	0	0	0
North Carolina	448	275	62.8%	442	271	NM	NM	1	NM	NM	NM
South Carolina	277	144	92.1%	271	140	NM	NM	0	NM	0	0
Virginia	140	111	25.5%	134	106	6	NM	0	0	0	NM
West Virginia	151	113	34.1%	65	NM	34	29	0	0	52	42
East South Central	2,273	1,143	98.8%	2,272	1,143	NM	NM	0	0	0	0
Alabama	902	331	172.4%	902	331	0	0	0	0	0	0
Kentucky	447	334	33.7%	446	333	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	924	478	93.2%	924	478	0	0	0	0	0	0
West South Central	814	632	28.9%	709	528	104	103	NM	0	0	0
Arkansas	353	284	24.5%	348	280	NM	NM	0	0	0	0
Louisiana	96	97	-1.6%	0	0	96	97	0	0	0	0
Oklahoma	259	191	35.6%	259	191	0	0	0	0	0	0
Texas	106	59	78.7%	102	57	3	NM	NM	0	0	0
Mountain	2,778	2,969	-6.4%	2,668	2,850	108	118	2	NM	0	0
Arizona	671	711	-5.6%	671	711	0	0	0	0	0	0
Colorado	160	162	-1.3%	134	146	NM	NM	2	NM	0	0
Idaho	784	910	-13.9%	717	823	66	88	0	0	0	0
Montana	813	792	2.7%	800	780	NM	NM	0	0	0	0
Nevada	189	156	20.8%	185	155	4	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	69	63	9.9%	69	62	0	NM	0	0	0	0
Wyoming	80	164	-51.0%	78	163	2	NM	0	0	0	0
Pacific Contiguous	13,720	11,351	20.9%	13,431	11,121	289	227	0	NM	0	0
California	4,372	3,422	27.8%	4,134	3,233	238	186	0	NM	0	0
Oregon	2,439	1,971	23.7%	2,415	1,950	NM	NM	0	0	0	0
Washington	6,910	5,958	16.0%	6,883	5,939	27	NM	0	0	0	0
Pacific Noncontiguous	155	117	32.7%	143	110	0	2	NM	0	NM	NM
Alaska	150	108	38.4%	143	108	0	0	NM	0	0	0
Hawaii	NM	NM	NM	0	NM	0	2	0	0	NM	NM
U.S. Total	26,223	21,247	23.4%	24,158	19,901	1,923	1,238	NM	NM	130	101

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	4,580	4,239	8.0%	637	624	3,679	3,380	3	NM	261	232
Connecticut	208	200	4.1%	17	NM	191	184	0	0	0	0
Maine	2,176	1,966	10.7%	0	0	1,920	1,737	0	0	256	228
Massachusetts	562	544	3.3%	143	138	412	399	3	NM	5	NM
New Hampshire	860	813	5.7%	202	209	659	604	0	0	0	0
Rhode Island	2	NM	NM	0	0	2	NM	0	0	0	0
Vermont	772	714	8.1%	276	261	496	453	0	0	0	0
Middle Atlantic	18,813	17,904	5.1%	14,501	13,846	4,260	4,018	4	NM	48	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	16,982	16,165	5.1%	14,429	13,806	2,500	2,319	4	NM	48	NM
Pennsylvania	1,812	1,724	5.1%	72	NM	1,740	1,684	0	0	0	0
East North Central	3,372	3,123	8.0%	2,928	2,697	326	304	1	NM	117	121
Illinois	84	84	-0.6%	NM	NM	51	50	1	NM	0	0
Indiana	250	243	2.9%	250	243	0	0	0	0	0	0
Michigan	1,064	986	7.9%	982	906	NM	61	0	0	NM	NM
Ohio	306	306	0.0%	166	179	141	127	0	0	0	0
Wisconsin	1,668	1,503	11.0%	1,497	1,335	NM	66	0	0	100	102
West North Central	8,755	6,735	30.0%	8,506	6,519	154	137	0	0	94	79
Iowa	620	588	5.4%	615	584	5	NM	0	0	0	0
Kansas	19	NM	NM	0	0	19	NM	0	0	0	0
Minnesota	544	546	-0.3%	319	347	NM	120	0	0	94	79
Missouri	1,056	959	10.0%	1,056	959	0	0	0	0	0	0
Nebraska	1,169	1,076	8.7%	1,169	1,076	0	0	0	0	0	0
North Dakota	1,582	1,178	34.3%	1,582	1,178	0	0	0	0	0	0
South Dakota	3,765	2,375	58.5%	3,765	2,375	0	0	0	0	0	0
South Atlantic	10,659	10,397	2.5%	8,390	8,614	1,891	1,396	8	NM	370	377
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	160	145	10.5%	160	145	0	0	0	0	0	0
Georgia	2,002	2,112	-5.2%	1,987	2,093	5	NM	0	0	9	NM
Maryland	1,537	1,065	44.4%	0	0	1,537	1,065	0	0	0	0
North Carolina	3,138	3,310	-5.2%	3,098	3,269	NM	NM	7	NM	NM	NM
South Carolina	1,900	1,777	6.9%	1,859	1,732	NM	43	1	NM	0	0
Virginia	885	1,062	-16.6%	837	1,009	48	NM	0	0	0	NM
West Virginia	1,038	927	12.0%	449	367	234	207	0	0	355	353
East South Central	15,605	12,962	20.4%	15,600	12,957	NM	NM	0	0	0	0
Alabama	6,476	5,903	9.7%	6,476	5,903	0	0	0	0	0	0
Kentucky	2,785	2,174	28.1%	2,779	2,169	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6,345	4,885	29.9%	6,345	4,885	0	0	0	0	0	0
West South Central	5,550	5,712	-2.8%	4,847	4,951	702	760	NM	0	0	0
Arkansas	2,390	2,446	-2.3%	2,363	2,414	NM	NM	0	0	0	0
Louisiana	657	705	-6.9%	0	0	657	705	0	0	0	0
Oklahoma	1,781	1,720	3.5%	1,781	1,720	0	0	0	0	0	0
Texas	723	840	-14.0%	703	817	19	NM	NM	0	0	0
Mountain	21,924	20,744	5.7%	21,046	19,930	871	808	8	NM	0	0
Arizona	4,423	4,442	-0.4%	4,423	4,442	0	0	0	0	0	0
Colorado	1,395	1,275	9.4%	1,224	1,140	NM	129	8	NM	0	0
Idaho	6,575	6,310	4.2%	6,004	5,749	571	561	0	0	0	0
Montana	7,123	6,240	14.1%	7,020	6,148	NM	92	0	0	0	0
Nevada	1,001	1,134	-11.7%	978	1,121	23	NM	0	0	0	0
New Mexico	NM	99	NM	NM	99	0	0	0	0	0	0
Utah	599	525	14.0%	591	519	8	NM	0	0	0	0
Wyoming	684	719	-4.9%	680	712	4	NM	0	0	0	0
Pacific Contiguous	110,225	88,844	24.1%	108,127	87,538	2,086	1,292	12	NM	0	0
California	30,005	18,071	66.0%	28,335	17,140	1,658	916	12	NM	0	0
Oregon	24,171	21,860	10.6%	23,972	21,683	NM	177	0	0	0	0
Washington	56,049	48,913	14.6%	55,819	48,715	231	199	0	0	0	0
Pacific Noncontiguous	1,286	927	38.6%	1,199	878	8	12	NM	0	NM	NM
Alaska	1,238	864	43.2%	1,194	864	0	0	NM	0	0	0
Hawaii	NM	63	NM	5	NM	8	12	0	0	NM	NM
U.S. Total	200,769	171,588	17.0%	185,780	158,555	13,983	12,112	NM	NM	925	882

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	1,034	909	13.7%	86	78	823	727	18	15	106	89
Connecticut	74	80	-7.2%	0	NM	74	79	0	0	0	0
Maine	421	346	21.8%	0	0	306	249	9	8	106	89
Massachusetts	227	205	10.3%	NM	NM	216	196	5	NM	0	NM
New Hampshire	196	185	5.7%	29	31	162	151	4	NM	0	0
Rhode Island	30	21	43.3%	0	0	30	20	0	NM	0	0
Vermont	85	71	19.8%	51	40	34	31	0	NM	0	0
Middle Atlantic	1,219	1,031	18.2%	11	13	1,064	890	70	59	74	69
New Jersey	217	210	3.3%	11	13	172	162	33	34	NM	NM
New York	544	444	22.4%	0	0	504	407	23	19	17	19
Pennsylvania	457	376	21.4%	0	0	388	322	14	5	55	50
East North Central	1,815	1,545	17.4%	214	244	1,441	1,139	21	22	138	140
Illinois	666	459	45.2%	NM	NM	663	455	NM	NM	0	0
Indiana	338	235	43.8%	35	31	296	195	2	NM	NM	6
Michigan	450	508	-11.4%	87	119	291	316	14	16	58	57
Ohio	142	128	10.9%	NM	NM	113	98	NM	NM	25	26
Wisconsin	219	216	1.5%	86	88	78	75	4	NM	50	51
West North Central	4,135	3,812	8.5%	1,218	1,206	2,848	2,537	12	14	56	55
Iowa	1,068	1,008	6.0%	661	628	400	371	NM	NM	5	6
Kansas	1,195	1,082	10.4%	133	63	1,061	1,019	0	0	0	NM
Minnesota	803	718	11.9%	159	174	590	493	NM	NM	50	48
Missouri	144	79	81.9%	NM	4	134	69	6	7	0	NM
Nebraska	225	224	0.2%	18	19	206	204	1	NM	0	0
North Dakota	579	498	16.3%	210	254	370	244	0	0	0	NM
South Dakota	121	203	-40.6%	33	64	87	139	0	0	0	0
South Atlantic	2,795	2,371	17.9%	272	220	1,578	1,172	32	48	914	931
Delaware	13	14	-5.8%	NM	NM	11	11	NM	NM	NM	NM
District of Columbia	5	0	--	0	0	5	0	0	0	0	0
Florida	454	415	9.4%	60	21	216	215	NM	4	174	175
Georgia	664	502	32.2%	28	8	291	133	NM	NM	345	360
Maryland	114	104	8.9%	NM	NM	96	91	NM	NM	15	10
North Carolina	842	656	28.5%	51	21	694	509	14	20	84	105
South Carolina	253	216	17.2%	36	36	57	39	0	0	160	140
Virginia	334	394	-15.2%	95	131	93	103	12	20	135	140
West Virginia	115	69	65.2%	0	0	115	69	0	0	0	0
East South Central	601	564	6.6%	11	10	85	43	NM	NM	505	511
Alabama	304	287	5.7%	NM	0	42	23	0	0	257	264
Kentucky	36	41	-11.8%	7	10	1	NM	0	0	28	31
Mississippi	154	134	15.2%	0	0	15	NM	0	0	139	133
Tennessee	107	102	5.2%	0	0	27	19	NM	NM	79	82
West South Central	6,578	8,007	-17.8%	111	165	6,007	7,402	5	7	455	432
Arkansas	128	116	10.8%	NM	NM	10	11	1	NM	118	104
Louisiana	239	229	4.3%	0	0	8	8	0	0	231	220
Oklahoma	1,499	1,754	-14.5%	92	128	1,379	1,599	0	0	27	26
Texas	4,712	5,909	-20.2%	18	37	4,610	5,783	5	7	79	81
Mountain	3,277	2,956	10.9%	254	257	2,977	2,663	15	17	32	19
Arizona	485	480	1.1%	59	60	424	418	NM	NM	0	0
Colorado	648	695	-6.9%	19	7	625	684	NM	NM	0	NM
Idaho	291	232	25.7%	NM	NM	259	214	1	NM	30	16
Montana	112	126	-11.4%	NM	14	99	110	0	0	2	NM
Nevada	742	604	22.9%	4	NM	730	591	8	9	0	NM
New Mexico	429	373	15.0%	25	28	403	344	NM	NM	0	0
Utah	314	183	71.4%	23	20	290	162	0	NM	0	0
Wyoming	257	263	-2.3%	111	123	146	141	0	0	0	0
Pacific Contiguous	6,645	7,350	-9.6%	752	864	5,582	6,175	80	92	231	219
California	5,009	5,509	-9.1%	229	262	4,646	5,110	76	89	57	48
Oregon	894	922	-3.1%	184	183	662	695	NM	NM	45	43
Washington	743	919	-19.1%	340	420	274	370	NM	NM	128	127
Pacific Noncontiguous	116	132	-11.8%	15	14	81	89	20	22	NM	7
Alaska	NM	14	NM	NM	NM	NM	NM	4	4	NM	NM
Hawaii	102	117	-13.1%	8	7	78	85	16	18	0	6
U.S. Total	28,215	28,678	-1.6%	2,944	3,071	22,486	22,839	275	298	2,511	2,471

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

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	6,940	6,277	10.6%	526	526	5,572	5,000	116	97	726	654
Connecticut	486	534	-9.0%	2	NM	484	532	0	0	0	0
Maine	3,162	2,617	20.8%	0	0	2,384	1,913	54	51	725	652
Massachusetts	1,360	1,241	9.6%	NM	47	1,281	1,171	34	22	1	NM
New Hampshire	1,184	1,230	-3.8%	169	170	992	1,043	23	17	0	0
Rhode Island	222	141	56.9%	0	0	217	136	4	NM	0	0
Vermont	526	513	2.4%	310	308	214	205	1	NM	0	0
Middle Atlantic	8,689	8,360	3.9%	63	66	7,698	7,449	431	398	498	447
New Jersey	1,262	1,181	6.8%	63	66	992	917	201	196	NM	NM
New York	3,940	3,723	5.8%	0	0	3,683	3,471	136	126	121	126
Pennsylvania	3,487	3,455	0.9%	0	0	3,022	3,060	94	77	371	318
East North Central	17,933	17,283	3.8%	2,037	2,102	14,843	14,100	136	126	917	955
Illinois	7,372	6,753	9.2%	NM	22	7,348	6,728	NM	NM	0	0
Indiana	3,131	3,452	-9.3%	229	204	2,848	3,197	13	11	NM	40
Michigan	4,188	4,088	2.4%	961	1,097	2,787	2,524	80	80	360	387
Ohio	1,477	1,252	18.0%	NM	17	1,276	1,041	NM	9	174	185
Wisconsin	1,765	1,737	1.6%	807	762	585	610	31	23	343	342
West North Central	42,881	35,998	19.1%	13,598	12,433	28,780	23,135	95	93	409	338
Iowa	12,394	11,609	6.8%	8,079	7,267	4,272	4,281	NM	23	26	38
Kansas	10,979	8,297	32.3%	1,059	527	9,919	7,762	0	0	1	7
Minnesota	7,931	7,016	13.0%	1,666	1,766	5,862	4,939	NM	31	372	281
Missouri	1,151	769	49.6%	NM	25	1,084	713	37	29	2	NM
Nebraska	2,989	2,146	39.3%	170	159	2,807	1,977	11	9	0	0
North Dakota	5,772	4,389	31.5%	2,075	2,132	3,690	2,248	0	0	7	10
South Dakota	1,666	1,772	-6.0%	521	558	1,145	1,214	0	0	0	0
South Atlantic	18,176	15,068	20.6%	1,923	1,345	9,917	7,382	234	300	6,102	6,042
Delaware	80	80	-0.3%	NM	NM	64	64	NM	NM	NM	8
District of Columbia	29	0	--	0	0	29	0	0	0	0	0
Florida	3,374	2,816	19.8%	423	162	1,685	1,443	NM	31	1,234	1,180
Georgia	4,001	3,091	29.4%	166	45	1,570	756	NM	7	2,262	2,283
Maryland	775	766	1.2%	NM	6	689	678	NM	20	68	63
North Carolina	4,943	3,681	34.3%	269	144	3,996	2,744	95	114	582	679
South Carolina	1,603	1,395	14.9%	257	242	275	245	0	0	1,071	909
Virginia	2,393	2,417	-1.0%	798	742	631	630	88	125	877	920
West Virginia	978	823	18.9%	0	0	978	823	0	0	0	0
East South Central	3,779	3,719	1.6%	63	55	443	283	NM	NM	3,270	3,379
Alabama	1,953	1,903	2.6%	NM	0	260	153	0	0	1,681	1,751
Kentucky	242	272	-11.0%	51	55	4	NM	0	0	187	213
Mississippi	908	891	2.0%	0	0	28	8	0	0	880	883
Tennessee	675	653	3.4%	0	0	150	119	NM	NM	522	532
West South Central	60,185	50,175	20.0%	1,099	990	56,121	46,189	47	52	2,919	2,945
Arkansas	868	818	6.1%	NM	NM	75	81	4	NM	788	734
Louisiana	1,532	1,555	-1.5%	0	0	52	55	0	0	1,480	1,500
Oklahoma	14,590	11,834	23.3%	919	812	13,531	10,846	0	0	140	176
Texas	43,196	35,968	20.1%	179	178	42,463	35,207	44	49	511	534
Mountain	25,276	21,879	15.5%	2,063	2,060	22,904	19,486	91	90	218	242
Arizona	3,428	2,786	23.0%	372	323	3,043	2,451	NM	13	0	0
Colorado	6,258	5,844	7.1%	187	61	6,053	5,766	NM	15	2	NM
Idaho	1,984	1,912	3.8%	NM	7	1,765	1,674	6	5	204	226
Montana	1,199	1,267	-5.4%	NM	133	1,061	1,122	0	0	12	12
Nevada	4,824	3,889	24.0%	26	22	4,751	3,818	47	48	0	NM
New Mexico	3,135	2,623	19.6%	148	154	2,985	2,466	NM	NM	0	0
Utah	2,147	1,041	106.3%	158	147	1,982	887	7	8	0	0
Wyoming	2,302	2,517	-8.5%	1,037	1,214	1,265	1,303	0	0	0	0
Pacific Contiguous	43,831	41,883	4.7%	4,519	5,099	37,290	34,758	561	603	1,461	1,423
California	33,841	30,589	10.6%	1,336	1,329	31,611	28,361	534	582	359	317
Oregon	4,725	5,257	-10.1%	705	895	3,702	4,057	NM	10	301	295
Washington	5,266	6,037	-12.8%	2,478	2,875	1,977	2,341	NM	10	801	811
Pacific Noncontiguous	903	843	7.1%	120	114	650	530	129	142	NM	57
Alaska	NM	129	NM	NM	64	NM	33	22	28	NM	4
Hawaii	782	713	9.7%	57	50	618	497	107	114	0	53
U.S. Total	228,592	201,485	13.5%	26,009	24,790	184,218	158,311	1,842	1,901	16,522	16,482

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 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	-49	-48	1.4%	0	0	-49	-48	0	0	0	0
Connecticut	1	1	-30.7%	0	0	1	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-49	-49	0.9%	0	0	-49	-49	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-127	-125	1.2%	-61	-67	-65	-58	0	0	0	0
New Jersey	-21	-27	-21.3%	-21	-27	0	0	0	0	0	0
New York	-40	-40	0.8%	-40	-40	0	0	0	0	0	0
Pennsylvania	-65	-58	12.0%	0	0	-65	-58	0	0	0	0
East North Central	-100	-110	-9.7%	-100	-110	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	-100	-110	-9.7%	-100	-110	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	9	-24	-139.5%	9	-24	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	9	-24	-139.5%	9	-24	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	-445	-440	1.2%	-445	-440	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	-126	-132	-4.7%	-126	-132	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	-123	-139	-11.7%	-123	-139	0	0	0	0	0	0
Virginia	-196	-168	16.4%	-196	-168	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-98	-72	35.5%	-98	-72	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	-98	-72	35.5%	-98	-72	0	0	0	0	0	0
West South Central	-13	-9	58.0%	-13	-9	0	0	0	0	0	0
Arkansas	0	1	-80.9%	0	1	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-14	-10	42.8%	-14	-10	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-17	-3	515.1%	-17	-3	0	0	0	0	0	0
Arizona	17	24	-28.4%	17	24	0	0	0	0	0	0
Colorado	-34	-27	26.8%	-34	-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	79	46	71.1%	79	46	0	0	0	0	0	0
California	79	47	70.7%	79	47	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	16.3%	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	-759	-784	-3.1%	-646	-678	-114	-106	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 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	-250	-287	-12.9%	0	0	-250	-287	0	0	0	0
Connecticut	-4	1	-375.6%	0	0	-4	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-246	-288	-14.6%	0	0	-246	-288	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	-672	-658	2.2%	-325	-362	-347	-296	0	0	0	0
New Jersey	-95	-117	-18.6%	-95	-117	0	0	0	0	0	0
New York	-229	-244	-6.2%	-229	-244	0	0	0	0	0	0
Pennsylvania	-347	-296	17.4%	0	0	-347	-296	0	0	0	0
East North Central	-390	-410	-5.0%	-390	-410	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	-390	-410	-5.0%	-390	-410	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	87	195	-55.1%	87	195	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	87	195	-55.1%	87	195	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	-2,015	-1,530	31.7%	-2,015	-1,530	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	-737	-292	152.4%	-737	-292	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	-599	-579	3.5%	-599	-579	0	0	0	0	0	0
Virginia	-679	-659	3.0%	-679	-659	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-380	-380	-0.1%	-380	-380	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	-380	-380	-0.1%	-380	-380	0	0	0	0	0	0
West South Central	-53	-9	506.7%	-53	-9	0	0	0	0	0	0
Arkansas	16	31	-48.5%	16	31	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-69	-40	73.2%	-69	-40	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-190	-123	54.7%	-190	-123	0	0	0	0	0	0
Arizona	2	56	-95.7%	2	56	0	0	0	0	0	0
Colorado	-192	-179	7.5%	-192	-179	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	236	54	336.7%	236	54	0	0	0	0	0	0
California	234	57	308.2%	234	57	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	-3	-166.0%	2	-3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-3,626	-3,148	15.2%	-3,029	-2,565	-597	-583	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 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	160	163	-2.1%	0	0	140	146	8	9	11	8
Connecticut	48	51	-6.7%	0	0	48	51	0	0	0	0
Maine	36	32	14.6%	0	0	17	15	8	9	11	8
Massachusetts	71	75	-5.4%	0	0	71	75	0	0	0	0
New Hampshire	4	5	-10.1%	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	212	199	6.5%	0	0	166	168	41	32	6	0
New Jersey	49	45	9.4%	0	0	32	33	12	12	6	0
New York	83	81	2.6%	0	0	62	62	21	20	0	0
Pennsylvania	80	73	9.0%	0	0	72	73	8	0	0	0
East North Central	85	97	-12.7%	1	1	9	14	15	17	60	65
Illinois	24	22	9.9%	0	0	-2	0	0	0	26	22
Indiana	30	39	-21.8%	0	0	0	0	2	NM	28	37
Michigan	26	31	-15.9%	0	0	11	14	13	16	1	1
Ohio	-1	2	-154.5%	0	0	-1	NM	0	0	0	1
Wisconsin	6	5	29.0%	1	1	0	0	0	0	NM	3
West North Central	40	39	4.1%	20	19	13	12	3	NM	4	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	36	35	3.7%	16	15	13	12	3	NM	4	4
Missouri	1	1	-14.2%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	-0.7%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	378	425	-11.1%	0	0	180	219	10	18	188	188
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	269	286	-6.0%	0	0	119	135	0	0	150	151
Georgia	9	7	33.9%	0	0	0	0	0	0	9	7
Maryland	29	30	-4.5%	0	0	29	30	0	0	0	0
North Carolina	58	62	-6.5%	0	0	31	36	0	0	26	26
South Carolina	4	5	-22.9%	0	0	1	NM	0	0	3	4
Virginia	10	37	-72.7%	0	0	0	19	10	18	0	0
West Virginia	0	-1	-121.4%	0	0	0	-1	0	0	0	0
East South Central	5	5	8.4%	4	3	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	3	10.2%	4	3	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	2	25.7%	0	0	0	0	0	0	2	2
West South Central	145	127	14.0%	0	0	12	4	0	0	132	123
Arkansas	0	0	353.9%	0	0	0	0	0	0	0	0
Louisiana	84	58	45.1%	0	0	0	0	0	0	84	58
Oklahoma	5	4	35.6%	0	0	5	3	0	0	1	NM
Texas	54	65	-15.8%	0	0	8	NM	0	0	47	63
Mountain	57	53	7.2%	2	NM	28	28	0	0	27	25
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	5	4.8%	0	0	1	NM	0	0	4	NM
Idaho	6	7	-8.6%	0	0	0	0	0	0	6	7
Montana	27	26	2.8%	0	0	27	26	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	17	15	11.0%	0	0	0	NM	0	0	17	15
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	90	84	7.8%	0	NM	26	26	0	0	65	58
California	81	74	9.4%	0	NM	17	17	0	0	65	58
Oregon	3	4	-18.0%	0	0	3	4	0	0	0	0
Washington	6	5	5.7%	0	0	6	5	0	0	0	0
Pacific Noncontiguous	33	19	79.0%	18	0	0	1	16	18	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	34	19	80.2%	18	0	0	1	16	18	0	0
U.S. Total	1,206	1,212	-0.4%	43	23	574	618	94	97	496	474

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

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	1,068	1,099	-2.9%	0	0	939	988	50	54	79	56
Connecticut	316	348	-9.4%	0	0	316	348	0	0	0	0
Maine	241	211	14.1%	0	0	112	100	50	54	79	56
Massachusetts	483	508	-5.0%	0	0	483	508	0	0	0	0
New Hampshire	28	31	-9.1%	0	0	28	31	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	1,330	1,359	-2.1%	0	0	1,029	1,112	261	247	40	0
New Jersey	327	312	4.7%	0	0	203	230	84	82	40	0
New York	511	522	-2.1%	0	0	387	398	124	124	0	0
Pennsylvania	493	524	-6.1%	0	0	439	484	53	41	0	0
East North Central	557	611	-8.8%	64	22	49	98	89	90	355	401
Illinois	139	137	1.0%	0	0	-11	-3	0	0	150	140
Indiana	180	230	-21.5%	0	0	0	0	12	11	169	219
Michigan	150	195	-22.8%	0	11	64	92	77	79	9	12
Ohio	56	15	272.2%	55	0	-4	9	0	0	5	7
Wisconsin	31	34	-6.8%	9	11	0	0	0	0	NM	23
West North Central	260	270	-3.7%	118	136	91	83	19	20	32	31
Iowa	2	NM	NM	0	0	0	0	0	0	2	NM
Kansas	3	0	--	0	0	0	0	0	0	3	0
Minnesota	229	236	-2.9%	92	105	91	83	19	20	27	28
Missouri	1	7	-81.6%	1	7	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	24	24	1.2%	24	24	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,530	2,794	-9.5%	0	0	1,260	1,456	78	117	1,191	1,221
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	1,839	1,872	-1.8%	0	0	893	899	0	0	945	973
Georgia	68	63	7.2%	0	0	0	0	0	0	68	63
Maryland	180	187	-4.1%	0	0	180	187	0	NM	0	0
North Carolina	312	397	-21.4%	0	0	156	234	0	0	155	163
South Carolina	26	25	4.2%	0	0	4	NM	0	0	22	22
Virginia	106	254	-58.3%	0	0	27	137	78	117	0	0
West Virginia	-1	-4	-87.5%	0	0	-1	-4	0	0	0	0
East South Central	33	47	-30.6%	19	33	0	0	0	0	14	14
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	19	33	-43.2%	19	33	0	0	0	0	0	0
Mississippi	2	NM	NM	0	0	0	0	0	0	2	NM
Tennessee	12	11	10.5%	0	0	0	0	0	0	12	11
West South Central	738	796	-7.2%	0	0	65	20	0	0	673	776
Arkansas	3	3	5.2%	0	0	0	0	0	0	3	3
Louisiana	379	377	0.5%	0	0	0	0	0	0	379	377
Oklahoma	23	22	5.1%	0	0	24	13	0	0	-1	9
Texas	333	394	-15.5%	0	0	41	7	0	0	292	387
Mountain	377	373	1.1%	18	NM	201	209	0	0	159	163
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	33	30	11.3%	0	0	9	8	0	0	24	21
Idaho	35	44	-20.6%	0	0	0	0	0	0	35	44
Montana	191	199	-3.9%	0	0	191	199	0	0	0	0
Nevada	18	NM	NM	18	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	78	99	-21.0%	0	0	0	NM	0	0	78	97
Wyoming	22	0	--	0	0	0	0	0	0	22	0
Pacific Contiguous	568	506	12.3%	0	NM	171	169	0	0	397	337
California	517	443	16.7%	0	NM	119	105	0	0	397	337
Oregon	21	27	-20.9%	0	NM	22	27	0	0	0	0
Washington	30	37	-17.3%	0	0	30	37	0	0	0	0
Pacific Noncontiguous	204	116	75.5%	99	NM	2	7	103	109	0	0
Alaska	-2	NM	NM	-2	NM	0	0	0	0	0	0
Hawaii	205	116	77.7%	101	0	2	7	103	109	0	0
U.S. Total	7,665	7,970	-3.8%	317	194	3,808	4,141	599	636	2,941	2,998

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 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	216	168	28.2%	NM	17	199	148	1	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	138	104	32.7%	0	0	138	104	0	0	0	0
Massachusetts	NM	15	NM	NM	NM	NM	9	1	NM	0	NM
New Hampshire	33	28	16.4%	0	0	33	28	0	0	0	0
Rhode Island	10	NM	NM	0	0	9	NM	0	NM	0	0
Vermont	NM	20	NM	NM	13	NM	6	0	0	0	0
Middle Atlantic	550	379	45.0%	0	0	550	379	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	314	220	42.9%	0	0	314	220	0	0	0	NM
Pennsylvania	234	158	48.3%	0	0	234	158	0	0	0	0
East North Central	1,287	971	32.5%	151	171	1,132	795	NM	NM	NM	NM
Illinois	612	402	52.4%	NM	NM	611	400	NM	NM	0	0
Indiana	265	164	61.3%	0	0	265	164	0	NM	0	0
Michigan	233	272	-14.0%	74	117	159	155	0	0	0	0
Ohio	66	50	30.5%	NM	NM	61	46	0	NM	NM	NM
Wisconsin	111	83	32.8%	74	53	36	30	0	0	0	NM
West North Central	3,818	3,593	6.3%	1,173	1,159	2,644	2,432	NM	NM	0	0
Iowa	1,048	985	6.3%	658	626	389	360	0	NM	0	0
Kansas	1,189	1,076	10.5%	133	63	1,056	1,013	0	0	0	0
Minnesota	544	556	-2.2%	128	140	415	415	NM	NM	0	0
Missouri	123	60	105.0%	0	0	123	60	0	0	0	0
Nebraska	215	215	0.2%	NM	12	204	202	0	0	0	0
North Dakota	579	498	16.4%	210	254	370	244	0	0	0	0
South Dakota	120	203	-40.7%	33	64	87	139	0	0	0	0
South Atlantic	175	94	85.6%	0	0	175	94	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	32	25	27.7%	0	0	32	25	0	0	0	0
North Carolina	28	0	--	0	0	28	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	115	69	66.2%	0	0	115	69	0	0	0	0
East South Central	NM	2	NM	0	0	NM	2	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	2	NM	0	0	NM	2	0	0	0	0
West South Central	5,815	7,400	-21.4%	109	156	5,703	7,240	3	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,471	1,726	-14.7%	92	127	1,379	1,598	0	0	0	0
Texas	4,344	5,674	-23.4%	17	29	4,324	5,642	3	NM	0	0
Mountain	1,511	1,663	-9.2%	141	144	1,368	1,517	NM	NM	0	NM
Arizona	41	46	-12.0%	0	0	41	46	0	0	0	0
Colorado	537	636	-15.5%	19	7	517	627	NM	NM	0	NM
Idaho	175	187	-6.6%	0	0	175	187	0	0	0	0
Montana	108	124	-13.0%	NM	14	97	110	0	0	0	0
Nevada	24	31	-24.1%	0	0	24	31	0	0	0	0
New Mexico	310	290	7.0%	0	0	310	289	NM	NM	0	0
Utah	59	85	-30.9%	0	0	59	85	0	0	0	0
Wyoming	257	263	-2.3%	111	123	146	141	0	0	0	0
Pacific Contiguous	2,283	3,253	-29.8%	563	664	1,719	2,588	0	NM	1	NM
California	963	1,700	-43.4%	94	114	869	1,585	0	NM	1	NM
Oregon	765	818	-6.5%	178	174	587	644	0	0	0	0
Washington	555	735	-24.5%	291	376	263	359	0	0	0	0
Pacific Noncontiguous	50	70	-28.3%	NM	NM	43	64	0	0	0	0
Alaska	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Hawaii	40	60	-33.3%	0	0	40	60	0	0	0	0
U.S. Total	15,711	17,595	-10.7%	2,159	2,318	13,540	15,259	8	12	NM	NM

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 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	2,113	1,520	39.0%	NM	152	1,941	1,344	17	22	1	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,416	918	54.3%	0	0	1,416	918	0	0	0	0
Massachusetts	NM	136	NM	NM	37	NM	79	13	17	1	NM
New Hampshire	267	269	-0.8%	0	0	267	269	0	0	0	0
Rhode Island	90	7	NM	0	0	85	NM	4	NM	0	0
Vermont	NM	181	NM	NM	115	NM	67	0	0	0	0
Middle Atlantic	4,491	4,296	4.5%	0	0	4,490	4,294	0	0	1	NM
New Jersey	NM	13	NM	0	0	NM	13	0	0	0	0
New York	2,484	2,299	8.0%	0	0	2,483	2,297	0	0	1	NM
Pennsylvania	1,994	1,983	0.5%	0	0	1,994	1,983	0	0	0	0
East North Central	14,351	13,693	4.8%	1,549	1,666	12,759	11,983	NM	NM	NM	37
Illinois	7,011	6,384	9.8%	NM	9	7,001	6,372	NM	NM	0	0
Indiana	2,678	3,036	-11.8%	0	0	2,677	3,035	1	NM	0	0
Michigan	2,768	2,637	5.0%	922	1,088	1,846	1,549	0	0	0	0
Ohio	972	755	28.8%	NM	9	930	711	2	NM	NM	33
Wisconsin	922	881	4.6%	612	561	306	315	0	0	5	NM
West North Central	41,019	34,598	18.6%	13,291	12,118	27,708	22,461	NM	19	0	0
Iowa	12,292	11,458	7.3%	8,058	7,250	4,232	4,206	3	NM	0	0
Kansas	10,941	8,251	32.6%	1,059	527	9,882	7,724	0	0	0	0
Minnesota	6,410	5,989	7.0%	1,454	1,540	4,939	4,432	NM	17	0	0
Missouri	1,022	662	54.5%	0	0	1,022	662	0	0	0	0
Nebraska	2,925	2,086	40.2%	NM	111	2,800	1,975	0	0	0	0
North Dakota	5,765	4,380	31.6%	2,075	2,132	3,690	2,248	0	0	0	0
South Dakota	1,664	1,772	-6.1%	521	558	1,143	1,214	0	0	0	0
South Atlantic	1,571	1,122	40.0%	0	0	1,569	1,119	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	301	299	0.6%	0	0	301	299	0	0	0	0
North Carolina	290	0	--	0	0	290	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	977	820	19.2%	0	0	977	820	0	0	0	0
East South Central	NM	25	NM	0	0	NM	25	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	25	NM	0	0	NM	25	0	0	0	0
West South Central	55,496	46,210	20.1%	1,092	973	54,380	45,212	24	25	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	14,444	11,647	24.0%	915	808	13,529	10,839	0	0	0	0
Texas	41,052	34,564	18.8%	176	165	40,851	34,373	24	25	0	0
Mountain	14,034	13,904	0.9%	1,350	1,407	12,673	12,486	NM	8	2	NM
Arizona	391	333	17.2%	0	0	391	333	0	0	0	0
Colorado	5,605	5,520	1.5%	187	61	5,409	5,451	NM	NM	2	NM
Idaho	1,320	1,501	-12.0%	0	0	1,320	1,501	0	0	0	0
Montana	1,183	1,255	-5.7%	NM	133	1,057	1,122	0	0	0	0
Nevada	228	188	21.2%	0	0	228	188	0	0	0	0
New Mexico	2,421	2,155	12.3%	0	0	2,418	2,153	NM	NM	0	0
Utah	585	436	34.2%	0	0	585	436	0	0	0	0
Wyoming	2,302	2,517	-8.5%	1,037	1,214	1,265	1,303	0	0	0	0
Pacific Contiguous	16,912	18,359	-7.9%	3,331	3,901	13,574	14,451	4	NM	3	NM
California	8,937	8,922	0.2%	472	430	8,458	8,486	4	NM	3	NM
Oregon	3,869	4,539	-14.8%	665	841	3,204	3,698	0	0	0	0
Washington	4,106	4,898	-16.2%	2,194	2,630	1,912	2,268	0	0	0	0
Pacific Noncontiguous	497	440	12.8%	NM	64	434	376	0	0	0	0
Alaska	NM	97	NM	NM	64	NM	33	0	0	0	0
Hawaii	403	343	17.2%	0	0	403	343	0	0	0	0
U.S. Total	150,509	134,167	12.2%	20,829	20,282	129,555	113,751	82	87	NM	47

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 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	687	638	7.7%	63	57	502	481	16	11	106	89
Connecticut	68	75	-9.8%	0	0	68	75	0	0	0	0
Maine	283	242	17.1%	0	0	168	145	9	8	106	89
Massachusetts	103	103	0.1%	0	0	100	103	3	0	0	0
New Hampshire	163	157	3.8%	29	31	129	123	4	NM	0	0
Rhode Island	19	18	3.7%	0	0	19	18	0	0	0	0
Vermont	51	43	19.7%	34	27	17	16	0	NM	0	0
Middle Atlantic	499	492	1.5%	0	0	379	388	49	37	71	67
New Jersey	82	81	1.8%	0	0	68	67	14	14	0	0
New York	204	203	0.5%	0	0	165	166	22	19	17	18
Pennsylvania	213	208	2.3%	0	0	146	155	13	4	54	48
East North Central	451	522	-13.6%	35	64	261	301	21	21	135	136
Illinois	48	50	-3.9%	2	NM	46	48	0	0	0	0
Indiana	33	39	-15.9%	21	27	4	5	2	NM	NM	6
Michigan	204	234	-13.1%	0	0	132	161	14	16	58	57
Ohio	62	67	-7.7%	NM	NM	39	44	1	NM	21	22
Wisconsin	105	132	-20.3%	12	35	39	44	4	NM	50	50
West North Central	214	212	1.3%	44	46	104	98	11	12	56	55
Iowa	20	22	-10.0%	NM	NM	11	11	NM	NM	5	6
Kansas	5	6	-8.2%	0	0	5	6	0	0	0	NM
Minnesota	166	160	3.7%	31	34	83	77	NM	NM	50	48
Missouri	15	15	0.6%	NM	NM	NM	5	6	6	0	NM
Nebraska	8	8	-3.5%	7	7	0	0	1	NM	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,618	1,695	-4.5%	121	172	566	560	17	32	914	931
Delaware	6	7	-3.5%	0	0	5	5	0	0	NM	NM
District of Columbia	5	0	--	0	0	5	0	0	0	0	0
Florida	384	389	-1.4%	7	5	200	205	NM	4	174	175
Georgia	440	425	3.6%	0	0	95	64	0	NM	345	360
Maryland	52	49	5.5%	0	0	36	37	NM	NM	15	10
North Carolina	189	216	-12.3%	0	0	104	105	NM	6	84	105
South Carolina	243	215	12.9%	36	36	47	39	0	0	160	140
Virginia	298	393	-24.1%	78	130	73	103	12	20	135	140
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	542	550	-1.3%	5	8	33	31	0	0	505	511
Alabama	282	287	-1.9%	0	0	24	23	0	0	257	264
Kentucky	34	39	-12.1%	5	8	1	NM	0	0	28	31
Mississippi	140	134	4.6%	0	0	NM	NM	0	0	139	133
Tennessee	86	89	-3.6%	0	0	6	7	0	0	79	82
West South Central	519	528	-1.8%	0	9	62	84	2	3	455	432
Arkansas	125	113	11.2%	0	0	7	8	1	NM	118	104
Louisiana	239	229	4.3%	0	0	8	8	0	0	231	220
Oklahoma	27	28	-1.0%	0	0	0	NM	0	0	27	26
Texas	128	160	-20.0%	0	9	47	67	2	NM	79	81
Mountain	95	78	22.9%	NM	NM	61	57	2	NM	32	18
Arizona	24	21	16.6%	0	0	24	21	0	0	0	0
Colorado	15	7	112.1%	0	0	15	7	0	0	0	0
Idaho	45	37	22.7%	NM	NM	12	19	1	NM	30	16
Montana	2	NM	NM	0	0	0	0	0	0	2	NM
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	6	7	-17.1%	0	0	6	6	0	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	805	817	-1.5%	60	68	453	455	66	77	226	217
California	532	546	-2.5%	7	18	411	408	62	74	52	46
Oregon	85	87	-3.2%	NM	6	32	37	NM	NM	45	43
Washington	188	184	2.4%	48	45	11	11	NM	NM	128	127
Pacific Noncontiguous	24	31	-20.3%	4	1	0	0	20	22	NM	7
Alaska	4	4	-6.8%	0	0	0	0	4	4	NM	NM
Hawaii	20	26	-22.5%	4	1	0	0	16	18	0	6
U.S. Total	5,456	5,562	-1.9%	334	427	2,419	2,457	203	217	2,500	2,461

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 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	4,171	4,271	-2.3%	329	360	3,022	3,188	95	70	725	652
Connecticut	450	510	-11.8%	0	0	450	510	0	0	0	0
Maine	1,746	1,699	2.8%	0	0	968	996	54	51	725	652
Massachusetts	679	689	-1.4%	0	0	662	688	17	NM	0	0
New Hampshire	917	961	-4.6%	169	170	725	774	23	17	0	0
Rhode Island	121	122	-1.3%	0	0	121	122	0	0	0	0
Vermont	258	289	-10.8%	160	190	97	98	1	NM	0	0
Middle Atlantic	3,308	3,305	0.1%	0	0	2,501	2,569	322	299	485	437
New Jersey	543	560	-3.0%	0	0	443	459	100	101	0	0
New York	1,324	1,321	0.2%	0	0	1,071	1,073	132	124	120	124
Pennsylvania	1,441	1,424	1.3%	0	0	986	1,037	90	74	365	313
East North Central	3,199	3,341	-4.2%	365	395	1,827	1,914	128	117	879	915
Illinois	328	334	-1.9%	12	12	315	322	0	0	0	0
Indiana	235	262	-10.1%	153	179	30	31	12	10	NM	40
Michigan	1,381	1,442	-4.2%	0	NM	941	975	80	80	360	387
Ohio	427	448	-4.8%	NM	NM	276	292	5	4	140	149
Wisconsin	829	855	-3.1%	195	201	264	294	31	23	338	337
West North Central	1,414	1,368	3.4%	298	314	633	645	74	72	409	338
Iowa	98	151	-34.8%	NM	16	41	75	NM	22	26	38
Kansas	37	44	-16.6%	0	0	35	37	0	0	1	7
Minnesota	1,121	1,021	9.8%	209	225	526	500	NM	14	372	281
Missouri	96	86	12.0%	NM	24	NM	32	36	27	2	NM
Nebraska	56	58	-3.3%	44	48	0	0	11	9	0	0
North Dakota	7	10	-25.4%	0	0	0	0	0	0	7	10
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	11,050	10,927	1.1%	1,021	1,033	3,779	3,639	149	213	6,102	6,042
Delaware	42	43	-1.9%	0	0	34	36	0	0	NM	8
District of Columbia	29	0	--	0	0	29	0	0	0	0	0
Florida	2,939	2,660	10.5%	50	52	1,625	1,398	NM	29	1,234	1,180
Georgia	2,690	2,691	0.0%	0	0	428	403	0	4	2,262	2,283
Maryland	306	315	-3.0%	0	0	230	237	NM	15	68	63
North Carolina	1,276	1,409	-9.4%	0	0	671	691	NM	39	582	679
South Carolina	1,570	1,393	12.7%	257	242	242	242	0	0	1,071	909
Virginia	2,198	2,414	-8.9%	714	739	518	630	88	125	877	920
West Virginia	1	NM	NM	0	0	1	NM	0	0	0	0
East South Central	3,522	3,639	-3.2%	40	51	212	209	0	0	3,270	3,379
Alabama	1,838	1,903	-3.4%	0	0	157	153	0	0	1,681	1,751
Kentucky	232	268	-13.7%	40	51	4	NM	0	0	187	213
Mississippi	887	891	-0.3%	0	0	NM	8	0	0	880	883
Tennessee	565	577	-2.1%	0	0	44	45	0	0	522	532
West South Central	3,444	3,542	-2.8%	0	13	503	559	22	25	2,919	2,945
Arkansas	850	800	6.3%	0	0	58	63	4	NM	788	734
Louisiana	1,532	1,555	-1.5%	0	0	52	55	0	0	1,480	1,500
Oklahoma	142	184	-22.5%	0	0	2	7	0	0	140	176
Texas	919	1,004	-8.4%	0	13	391	434	18	23	511	534
Mountain	630	622	1.2%	NM	7	393	364	13	12	216	238
Arizona	132	124	6.0%	0	0	132	124	0	0	0	0
Colorado	99	55	80.5%	0	0	99	55	0	0	0	0
Idaho	318	356	-10.6%	NM	7	100	118	6	5	204	226
Montana	12	12	-5.0%	0	0	0	0	0	0	12	12
Nevada	NM	15	NM	0	0	NM	15	0	0	0	0
New Mexico	10	11	-7.6%	0	0	10	11	0	0	0	0
Utah	45	49	-7.8%	0	0	39	42	7	8	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,234	5,247	-0.3%	399	405	2,911	2,907	478	521	1,445	1,413
California	3,496	3,530	-1.0%	81	121	2,620	2,602	451	501	343	307
Oregon	578	578	0.0%	NM	40	226	233	NM	10	301	295
Washington	1,159	1,139	1.8%	283	245	65	73	NM	10	801	811
Pacific Noncontiguous	164	219	-25.0%	31	20	0	0	129	142	NM	57
Alaska	26	32	-18.8%	0	0	0	0	22	28	NM	4
Hawaii	138	187	-26.1%	31	20	0	0	107	114	0	53
U.S. Total	36,135	36,480	-0.9%	2,491	2,596	15,780	15,995	1,410	1,472	16,453	16,416

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 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	394	337	17.0%	23	20	371	317	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	1.5%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	341	288	18.1%	0	0	341	288	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	45	39	13.9%	23	20	22	20	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,088	1,068	1.8%	68	71	1,020	997	0	0	0	0
California	1,067	1,057	1.0%	68	69	999	988	0	0	0	0
Oregon	21	11	85.0%	0	NM	21	10	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	19	14.0%	0	0	22	19	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	19	14.0%	0	0	22	19	0	0	0	0
U.S. Total	1,504	1,424	5.6%	91	91	1,413	1,334	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 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	2,690	2,584	4.1%	158	147	2,532	2,438	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	55	55	-1.1%	0	0	55	55	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,319	2,221	4.4%	0	0	2,319	2,221	0	0	0	0
New Mexico	9	9	-5.3%	0	0	9	9	0	0	0	0
Utah	308	299	3.0%	158	147	150	153	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,420	7,192	3.2%	458	475	6,961	6,718	0	0	0	0
California	7,276	7,080	2.8%	457	465	6,819	6,615	0	0	0	0
Oregon	144	112	28.1%	2	NM	142	102	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	147	130	12.9%	0	0	147	130	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	147	130	12.9%	0	0	147	130	0	0	0	0
U.S. Total	10,257	9,907	3.5%	617	621	9,641	9,286	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	383	298	28.7%	131	102	253	195	8	NM	122	98	NM	NM	NM	NM	138	105	11	9	0	0	11	9	104	81
Connecticut	52	40	32.2%	5	NM	47	36	0	NM	5	NM	17	15	0	0	17	15	2	2	0	0	2	2	28	20
Maine	4	3	36.6%	0	0	4	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	280	226	24.1%	109	87	172	139	NM	NM	106	84	NM	NM	NM	NM	108	83	8	7	0	0	8	7	55	48
New Hampshire	10	6	70.7%	0	0	10	6	0	0	0	0	3	2	0	0	3	2	1	0	0	0	1	0	6	4
Rhode Island	NM	5	NM	NM	NM	6	2	0	0	NM	NM	3	2	0	0	3	2	0	0	0	0	0	0	3	1
Vermont	28	18	51.9%	14	9	13	9	6	NM	8	9	5	3	0	0	5	3	0	0	0	0	0	0	8	6
Middle Atlantic	559	480	16.5%	169	160	390	320	11	13	135	123	211	194	21	22	190	173	NM	NM	NM	NM	19	17	181	131
New Jersey	344	314	9.7%	133	128	211	186	11	13	102	94	142	141	19	21	123	121	NM	NM	NM	NM	11	9	77	56
New York	163	123	32.8%	25	21	137	102	0	0	25	21	NM	NM	NM	NM	51	37	1	1	0	0	1	1	85	63
Pennsylvania	52	44	19.3%	10	11	42	33	0	0	8	9	NM	NM	NM	NM	16	15	NM	NM	NM	NM	6	6	19	12
East North Central	114	79	44.3%	76	52	38	27	28	8	48	43	NM	NM	NM	NM	22	19	NM	NM	0	NM	NM	NM	14	8
Illinois	13	12	11.9%	6	7	7	4	0	NM	6	7	4	3	0	0	4	3	NM	0	0	0	NM	0	3	1
Indiana	43	32	32.6%	39	31	4	1	13	NM	26	27	2	1	0	0	2	1	NM	NM	0	0	NM	NM	2	1
Michigan	NM	7	NM	13	NM	NM	5	13	NM	0	0	2	4	0	0	2	4	NM	NM	0	0	NM	NM	4	2
Ohio	29	23	26.5%	14	11	15	13	NM	NM	12	8	NM	NM	NM	NM	11	10	NM	NM	0	NM	NM	1	3	2
Wisconsin	NM	5	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	3	2
West North Central	142	38	275.9%	102	7	40	30	NM	1	100	7	22	NM	0	NM	21	17	1	1	0	0	1	1	17	13
Iowa	NM	6	NM	NM	0	9	6	NM	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	3	2
Kansas	NM	1	NM	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Minnesota	99	6	NM	93	NM	6	4	NM	0	92	NM	3	2	0	0	3	2	0	0	0	0	0	0	3	2
Missouri	28	23	22.1%	7	5	22	18	1	1	6	NM	12	NM	0	NM	12	10	0	0	0	0	0	0	10	8
Nebraska	NM	1	NM	NM	NM	1	0	0	0	NM	NM	NM	NM	0	0	NM	NM	NM	NM	0	0	NM	NM	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	NM	0	0	0	NM	0	0	0	0	0	0	0	0	0
South Atlantic	1,211	732	65.5%	1,001	577	210	155	150	43	837	518	94	102	14	16	80	86	25	5	0	0	25	5	105	64
Delaware	21	20	9.2%	7	7	15	13	NM	NM	NM	6	NM	NM	NM	NM	8	8	1	0	0	0	1	0	6	4
District of Columbia	8	6	38.6%	0	0	8	6	0	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	2	2
Florida	98	44	123.8%	70	21	28	23	53	10	16	10	NM	NM	NM	NM	9	12	1	1	0	0	1	1	18	11
Georgia	NM	94	NM	224	78	NM	NM	28	8	196	69	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	125	104	20.8%	30	30	95	73	NM	NM	28	28	NM	NM	NM	NM	34	32	4	4	0	0	4	4	57	37
North Carolina	644	455	41.4%	625	440	19	16	51	21	561	404	26	26	13	14	13	12	1	0	0	0	1	0	5	4
South Carolina	24	4	580.5%	10	NM	14	3	0	0	10	NM	4	1	0	0	4	1	NM	NM	0	0	NM	NM	10	2
Virginia	43	5	751.9%	36	NM	8	4	17	NM	19	0	3	2	0	0	3	2	0	NM	0	0	0	NM	4	3
West Virginia	1	1	28.3%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
East South Central	66	22	201.6%	53	13	13	9	6	2	46	10	NM	NM	NM	NM	10	9	NM	0	0	0	NM	0	3	1
Alabama	NM	0	NM	22	0	NM	0	NM	0	18	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	5	4	22.0%	2	2	3	2	2	2	0	0	2	1	0	0	2	1	0	0	0	0	0	0	1	0
Mississippi	15	1	NM	14	0	1	1	0	0	14	0	1	0	0	0	1	0	NM	0	0	0	NM	0	0	0
Tennessee	24	17	39.1%	15	11	9	7	0	0	15	10	NM	NM	NM	NM	7	7	0	0	0	0	0	0	1	0
West South Central	338	136	148.1%	244	79	94	57	NM	NM	242	78	26	NM	0	NM	26	15	NM	0	0	0	NM	0	68	42
Arkansas	4	4	3.8%	3	NM	1	1	NM	NM	3	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	21	19	9.8%	0	0	21	19	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	20	18
Oklahoma	1	1	22.1%	1	1	1	1	1	1	0	0	0	0	0	0	0	0	NM	0	0	0	NM	0	NM	0
Texas	311	112	178.3%	240	75	71	37	NM	0	239	74	24	NM	0	NM	24	13	0	0	0	0	0	0	47	24
Mountain	1,542	1,029	49.9%	1,233	750	309	279	88	92	1,133	644	93	104	12	13	81	90	16	NM	0	NM	16	17	212	172
Arizona	565	484	16.6%	396	327	168	157	59	60	336	265	NM	NM	NM	NM	42	48	12	14	0	0	12	14	114	95
Colorado	149	101	47.9%	96	52	54	49	0	0	94	50	NM	NM	NM	NM	21	20	0	0	0	0	0	0	32	28
Idaho	65	1	NM	63	0	2	1	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	NM	1	NM	NM	0	2	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Nevada	390	279	39.8%	356	239	34	40	4	NM	343	226	11	18	8	9	3	10	2	NM	0	NM	2	2	29	28
New Mexico	135	95	41.0%	116	80	18	16	25	28	91	52	7	7	0	0	7	7	0	0	0	0	0	0	12	8
Utah	234	67	251.0%	204	51	31	16	0	0	204	51	7	5	0	0	7	5	1	1	0	0	1	1	23	11
Wyoming	1	0	34.0%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	3,392	2,797	21.3%	2,203	1,874	1,190	923	61	62	2,123	1,796	289	221	14	15	275	206	195	NM	4	NM	190	140	724	577
California	3,330	2,765	20.4%	2,179	1,869	1,151	896	60	61	2,100	1,792	276	213	14	15	262	198	193	NM	4	NM	189	139	700	559
Oregon	47	20	134.7%	23	6	24	14	NM	NM	22	NM	11	6	0	0	11	6	2	1	0	0	2	1	12	8
Washington	15	12	27.6%	0	0	15	12	0	0	0	0	2	2	0	0	2	2	NM	0	0	0	NM	0	13	10
Pacific Noncontiguous	114	81	40.2%	20	12	94	69	4	6	16	6	35	23	0	0	35	23	0	0	0	0	0	0	59	46
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	114	81	39.8%	20	12	94	69	4	6	16	6	35	23	0	0	35	23	0	0	0	0	0	0	59	46
U.S. Total	7,862	5,691	38.1%	5,232	3,625	2,629	2,066	359	230	4,803	3,323	942	812	64	69	878	743	271	NM	7	NM	264	190	1,487	1,133

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

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	2,017	1,546	30.5%	656	487	1,361	1,059	44	15	608	468	764	594	NM	NM	760	590	59	50	0	0	59	50	541	419
Connecticut	279	206	35.0%	28	15	251	191	2	NM	26	13	97	77	0	0	97	77	13	9	0	0	13	9	141	104
Maine	24	18	37.0%	0	0	24	18	0	0	0	0	9	6	0	0	9	6	0	0	0	0	0	0	16	11
Massachusetts	1,469	1,174	25.2%	539	417	931	757	NM	10	526	403	599	475	NM	NM	595	471	43	39	0	0	43	39	293	246
New Hampshire	55	31	76.7%	0	0	55	31	0	0	0	0	18	9	0	0	18	9	3	1	0	0	3	1	34	21
Rhode Island	41	24	69.3%	NM	12	30	13	0	0	NM	12	15	9	0	0	15	9	0	0	0	0	0	0	15	4
Vermont	149	93	60.9%	78	43	71	50	33	NM	45	40	27	17	0	0	27	17	0	0	0	0	0	0	43	33
Middle Atlantic	3,047	2,536	20.1%	890	760	2,156	1,776	63	66	706	586	1,193	1,093	109	100	1,083	994	123	108	NM	8	111	100	962	683
New Jersey	1,906	1,654	15.2%	706	608	1,200	1,046	63	66	536	445	823	800	101	95	722	705	71	56	NM	NM	65	54	413	288
New York	852	647	31.8%	132	103	720	544	0	0	128	102	270	208	NM	NM	266	206	8	8	0	0	8	8	445	329
Pennsylvania	288	235	22.7%	52	48	236	186	0	0	42	40	99	86	NM	NM	95	83	44	43	NM	6	38	38	103	66
East North Central	584	396	47.6%	383	248	201	147	123	41	257	202	124	105	NM	NM	122	103	13	7	1	NM	12	4	67	40
Illinois	65	57	13.1%	33	35	32	22	1	NM	32	33	18	16	0	0	18	16	0	0	0	0	0	0	13	6
Indiana	234	163	43.7%	218	155	16	8	77	24	142	130	8	4	0	0	8	4	1	0	0	0	1	0	8	5
Michigan	79	36	117.2%	39	9	40	28	39	9	0	0	23	19	0	0	23	19	1	0	0	0	1	0	16	8
Ohio	159	117	36.3%	78	49	81	68	NM	6	69	37	63	55	NM	NM	61	53	4	6	1	NM	4	3	17	12
Wisconsin	47	22	109.8%	NM	NM	32	21	0	0	NM	NM	12	12	0	0	12	12	7	1	0	0	7	1	13	8
West North Central	661	197	234.6%	447	32	214	166	NM	1	438	29	118	95	1	NM	117	94	5	3	0	0	5	3	93	69
Iowa	52	33	54.9%	NM	0	48	33	NM	0	0	0	33	22	0	0	33	22	2	1	0	0	2	1	14	10
Kansas	10	7	33.6%	NM	NM	8	6	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	0	0	5	3
Minnesota	432	29	NM	400	7	32	22	NM	0	397	7	14	11	0	0	14	11	2	1	0	0	2	1	16	10
Missouri	154	124	24.5%	33	22	122	102	1	1	30	19	66	58	1	NM	65	57	1	1	0	0	1	1	55	45
Nebraska	11	3	203.9%	NM	NM	3	1	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	2	1
North Dakota	0	0	12.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	1	275.2%	NM	0	1	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
South Atlantic	6,758	3,840	76.0%	5,552	2,965	1,206	874	900	258	4,570	2,624	577	603	82	83	495	520	136	29	0	0	136	29	576	325
Delaware	119	104	14.7%	34	34	85	70	NM	NM	NM	28	48	46	NM	NM	47	45	4	2	0	0	4	2	34	23
District of Columbia	46	31	46.6%	0	0	46	31	0	0	0	0	32	22	0	0	32	22	0	0	0	0	0	0	14	9
Florida	608	250	143.4%	432	103	175	147	371	56	60	45	64	79	NM	NM	62	78	5	4	0	0	5	4	108	66
Georgia	1,442	504	186.1%	1,311	400	131	104	166	45	1,143	353	29	103	NM	NM	27	101	95	1	0	0	95	1	9	3
Maryland	696	535	30.1%	168	151	527	383	NM	6	159	141	208	191	NM	4	204	187	23	20	0	0	23	20	300	176
North Carolina	3,496	2,368	47.6%	3,377	2,272	119	96	269	144	3,035	2,053	157	148	73	75	84	73	3	2	0	0	3	2	32	21
South Carolina	108	15	600.2%	33	NM	75	13	0	0	33	NM	18	3	0	0	18	3	4	0	0	0	4	0	53	10
Virginia	239	29	730.3%	196	NM	43	25	83	NM	112	0	19	11	0	0	19	11	0	0	0	0	0	0	24	15
West Virginia	5	4	28.1%	0	0	5	4	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	3
East South Central	309	110	180.5%	231	55	78	55	23	4	205	49	61	54	NM	NM	58	52	0	0	0	0	0	0	19	3
Alabama	119	2	NM	115	0	4	2	NM	0	104	0	3	2	0	0	3	2	0	0	0	0	0	0	1	0
Kentucky	25	15	68.6%	11	4	14	10	11	4	0	0	9	8	0	0	9	8	0	0	0	0	0	0	4	3
Mississippi	35	3	NM	21	0	15	3	0	0	21	0	5	3	0	0	5	3	0	0	0	0	0	0	10	0
Tennessee	130	90	43.9%	84	51	46	39	0	0	81	49	44	41	NM	NM	41	39	0	0	0	0	0	0	4	0
West South Central	1,772	748	137.0%	1,246	423	526	324	NM	4	1,238	418	148	92	1	NM	147	91	1	0	0	0	1	0	378	233
Arkansas	24	23	4.6%	18	18	6	4	NM	NM	17	17	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Louisiana	130	116	11.9%	0	0	130	116	0	0	0	0	8	7	0	0	8	7	0	0	0	0	0	0	121	109
Oklahoma	15	7	127.4%	3	3	12	3	3	3	0	0	6	1	0	0	6	1	1	0	0	0	1	0	5	2
Texas	1,604	603	166.1%	1,225	401	379	201	NM	0	1,221	400	132	82	1	NM	130	80	0	0	0	0	0	0	249	121
Mountain	9,286	5,879	57.9%	7,383	4,185	1,903	1,695	546	499	6,768	3,614	586	652	69	70	517	582	105	120	0	NM	105	119	1,280	995
Arizona	3,543	2,885	22.8%	2,453	1,887	1,090	998	372	323	2,068	1,551	310	338	NM	13	297	325	85	99	0	0	85	99	709	575
Colorado	874	554	58.0%	555	270	319	284	0	0	546	261	139	133	NM	9	130	124	1	1	0	0	1	1	188	158
Idaho	299	6	NM	291	0	9	6	0	0	291	0	2	2	0	0	2	2	0	0	0	0	0	0	6	4
Montana	13	7	95.7%	NM	0	9	7	0	0	NM	0	3	2	0	0	3	2	0	0	0	0	0	0	6	4
Nevada	2,386	1,545	54.4%	2,175	1,323	210	222	26	22	2,103	1,252	68	105	47	48	21	57	14	15	0	NM	14	14	175	151
New Mexico	797	548	45.5%	697	448	101	100	148	154	548	294	28	47	0	0	28	47	0	1	0	0	0	1	73	52
Utah	1,370	334	310.6%	1,208	256	162	77	0	0	1,208	256	36	24	0	0	36	24	5	4	0	0	5	4	121	49
Wyoming	3	2	29.3%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Pacific Contiguous	19,270	14,626	31.8%	12,797	9,594	6,473	5,032	331	319	12,375	9,191	1,538	1,239	79	78	1,460	1,161	1,046	775	13	6	1,033	769	3,981	3,102
California	18,958	14,474	31.0%	12,662	9,565	6,296	4,909	326	314	12,244	9,167	1,481	1,203	79	78	1,402	1,125	1,038	772	13	6	1,025	765	3,869	3,019
Oregon	242	96	151.0%	135	28	107	68	NM	NM	130	24	47	28	0	0	47	28	8	3	0	0	8	3	53	37
Washington	70	55	27.8%	0	0	70	55	0	0	0	0	11	8	0	0	11	8	0	0	0	0	0	0	59	46
Pacific Noncontiguous	663	482	37.4%	95	53	568	429	26	30	68	23	208	146	0	0	208	146	2	1	0	0	2	1	358	282
Alaska	1	0	--	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
Hawaii	661	482	37.1%	95	53	567	429	26	30	68	23	208	146	0	0	208	146	1	1	0	0	1	1	357	282
U.S. Total	44,366	30,359	46.1%	29,679	18,801	14,687	11,558	2,070	1,237	27,234	17,203	5,317	4,674	350	342	4,967	4,332	1,489	1,093	26	19	1,464	1,074	8,256	6,153

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, July 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	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 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	5	-87.2%	1	5	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	5	-87.2%	1	5	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	44	128	-66.0%	0	0	44	128	0	0	0	0
Arizona	23	85	-72.5%	0	0	23	85	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	20	43	-53.3%	0	0	20	43	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	267	338	-20.9%	0	0	267	338	0	0	0	0
California	267	338	-20.9%	0	0	267	338	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	311	471	-33.9%	1	5	311	466	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 July 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	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	3	54	-95.3%	3	54	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	3	54	-95.3%	3	54	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	539	584	-7.7%	0	0	539	584	0	0	0	0
Arizona	452	442	2.3%	0	0	452	442	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	87	142	-38.6%	0	0	87	142	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	1,469	1,492	-1.5%	0	0	1,469	1,492	0	0	0	0
California	1,469	1,492	-1.5%	0	0	1,469	1,492	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,011	2,129	-5.6%	3	54	2,008	2,075	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-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	678,005	498,170	176,311	148	3,376
Year 2015					
January	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
Year 2016					
January	62,048	45,567	16,149	14	319
February	50,567	37,652	12,604	15	296
March	39,857	31,044	8,495	14	304
April	38,989	28,663	10,062	11	254
May	45,036	33,834	10,933	9	260
June	63,326	46,363	16,644	10	310
July	74,241	54,196	19,706	11	328
August	73,868	53,927	19,600	12	330
Sept	62,428	44,869	17,280	12	267
October	54,634	39,517	14,858	13	246
November	48,126	35,274	12,624	13	215
December	64,883	47,265	17,356	15	249
Year 2017					
January	63,542	46,896	16,329	16	300
February	48,155	35,793	12,083	12	267
March	48,915	35,948	12,697	12	259
April	44,455	31,772	12,449	8	225
May	51,082	37,683	13,142	8	249
June	59,206	44,127	14,801	8	270
July	70,150	52,403	17,458	10	279
Year to Date					
2015	448,135	326,450	119,214	104	2,367
2016	374,065	277,318	94,593	83	2,070
2017	385,505	284,622	98,960	75	1,849
Rolling 12 Months Ending in July					
2016	665,524	490,374	171,306	143	3,702
2017	689,445	505,474	180,678	139	3,155

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-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	14,264	1,061	1,733	544	10,926
Year 2015					
January	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
Year 2016					
January	1,500	103	152	62	1,184
February	1,393	90	141	63	1,099
March	1,376	108	142	61	1,065
April	1,049	89	170	39	752
May	1,135	81	135	31	889
June	1,175	81	155	36	902
July	1,176	83	151	35	906
August	1,173	90	141	39	904
Sept	1,040	77	140	37	786
October	1,009	76	149	37	747
November	1,036	84	120	48	784
December	1,201	99	138	57	907
Year 2017					
January	1,285	111	140	46	987
February	1,075	97	122	38	818
March	1,184	102	155	43	884
April	1,048	87	132	29	799
May	1,064	82	131	28	823
June	1,028	76	105	34	813
July	1,005	94	112	40	759
Year to Date					
2015	10,057	612	1,208	403	7,834
2016	8,805	635	1,045	327	6,798
2017	7,687	650	897	258	5,883
Rolling 12 Months Ending in July					
2016	15,379	1,055	1,816	558	11,949
2017	13,147	1,076	1,585	475	10,010

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-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	692,269	499,231	178,044	692	14,302
Year 2015					
January	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
Year 2016					
January	63,549	45,669	16,301	76	1,503
February	51,960	37,742	12,745	78	1,395
March	41,233	31,151	8,636	75	1,370
April	40,039	28,752	10,232	49	1,006
May	46,171	33,915	11,068	40	1,149
June	64,502	46,444	16,799	46	1,212
July	75,416	54,279	19,857	46	1,234
August	75,041	54,017	19,740	50	1,234
Sept	63,469	44,946	17,420	49	1,053
October	55,643	39,594	15,007	50	993
November	49,162	35,358	12,744	61	998
December	66,084	47,364	17,494	71	1,155
Year 2017					
January	64,827	47,008	16,469	62	1,288
February	49,230	35,890	12,204	50	1,085
March	50,099	36,050	12,851	55	1,143
April	45,502	31,860	12,582	37	1,024
May	52,146	37,765	13,274	36	1,071
June	60,235	44,203	14,906	42	1,083
July	71,155	52,497	17,570	50	1,038
Year to Date					
2015	458,192	327,061	120,422	507	10,202
2016	382,869	277,953	95,638	410	8,869
2017	393,193	285,272	99,857	332	7,732
Rolling 12 Months Ending in July					
2016	680,904	491,429	173,122	701	15,651
2017	702,592	506,551	182,263	614	13,165

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-July 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	21,225	15,668	4,841	132	584
Year 2015					
January	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
Year 2016					
January	2,330	1,681	589	12	48
February	2,111	1,405	645	14	47
March	1,367	1,045	284	NM	31
April	1,319	1,016	262	10	31
May	1,565	1,173	325	11	56
June	1,577	1,242	281	9	44
July	2,205	1,677	461	11	57
August	2,195	1,630	498	15	52
Sept	1,532	1,112	370	10	41
October	1,566	1,140	352	11	64
November	1,560	1,198	305	11	46
December	1,899	1,350	470	13	67
Year 2017					
January	1,981	1,492	411	29	48
February	1,558	1,180	322	15	41
March	1,652	1,341	249	21	42
April	1,487	1,213	224	14	37
May	1,699	1,306	338	15	39
June	1,670	1,286	330	14	40
July	1,828	1,249	514	18	48
Year to Date					
2015	20,627	12,195	7,798	203	430
2016	12,473	9,239	2,847	73	314
2017	11,875	9,068	2,387	127	294
Rolling 12 Months Ending in July					
2016	20,772	15,606	4,522	NM	525
2017	20,628	15,496	4,382	186	563

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	126	1,374
Year 2015					
January	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
Year 2016					
January	244	4	84	16	140
February	223	7	68	16	132
March	183	0	89	NM	87
April	180	1	79	10	91
May	209	0	86	9	114
June	197	2	78	8	109
July	239	0	87	11	140
August	233	0	94	10	129
Sept	186	1	88	9	89
October	231	0	89	9	133
November	184	0	78	8	97
December	225	2	95	13	115
Year 2017					
January	251	4	100	30	117
February	175	4	70	24	77
March	162	1	47	25	89
April	198	0	82	12	104
May	215	0	83	19	113
June	210	1	91	14	104
July	214	0	95	16	103
Year to Date					
2015	2,101	57	705	249	1,090
2016	1,475	16	570	77	812
2017	1,425	11	569	140	705
Rolling 12 Months Ending in July					
2016	2,516	21	1,020	NM	1,365
2017	2,485	15	1,013	190	1,267

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	23,760	15,687	5,855	258	1,959
Year 2015					
January	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
Year 2016					
January	2,574	1,685	673	28	188
February	2,334	1,412	713	30	179
March	1,549	1,045	373	NM	118
April	1,499	1,017	341	20	121
May	1,773	1,173	410	20	170
June	1,774	1,245	359	17	153
July	2,444	1,677	548	22	197
August	2,428	1,630	592	25	181
Sept	1,718	1,112	458	18	130
October	1,797	1,140	441	20	196
November	1,744	1,198	384	19	143
December	2,125	1,352	565	26	182
Year 2017					
January	2,233	1,496	512	59	165
February	1,733	1,185	392	39	117
March	1,814	1,341	296	46	131
April	1,686	1,214	306	26	140
May	1,914	1,307	421	35	151
June	1,880	1,287	421	28	144
July	2,042	1,249	609	34	150
Year to Date					
2015	22,728	12,252	8,503	452	1,520
2016	13,948	9,255	3,417	149	1,127
2017	13,301	9,079	2,956	267	999
Rolling 12 Months Ending in July					
2016	23,288	15,627	5,542	NM	1,890
2017	23,113	15,511	5,395	376	1,831

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243
Year 2015					
January	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
Year 2016					
January	341	302	17	0	22
February	329	272	39	0	17
March	366	283	63	0	20
April	390	326	43	0	21
May	371	296	52	0	23
June	382	308	52	0	22
July	403	325	56	0	22
August	422	337	62	0	23
Sept	383	311	50	0	22
October	246	172	62	0	13
November	304	240	47	0	18
December	337	261	56	0	21
Year 2017					
January	362	301	44	0	16
February	266	217	36	0	13
March	276	215	43	0	19
April	154	110	32	0	12
May	321	264	41	0	15
June	344	283	42	0	19
July	333	271	43	0	18
Year to Date					
2015	2,444	1,878	404	1	160
2016	2,582	2,110	324	1	147
2017	2,056	1,662	282	1	112
Rolling 12 Months Ending in July					
2016	4,182	3,352	589	2	240
2017	3,749	2,982	557	1	208

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

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,016	2	105	9	900
Year 2015					
January	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
Year 2016					
January	79	0	10	2	66
February	87	0	9	2	76
March	108	0	10	2	96
April	71	0	6	0	64
May	74	0	6	0	67
June	79	0	8	0	71
July	85	0	8	1	76
August	84	0	9	0	75
Sept	65	0	9	0	56
October	112	0	10	0	102
November	77	0	9	0	68
December	95	0	10	2	84
Year 2017					
January	74	0	9	2	63
February	66	0	9	1	56
March	87	0	10	2	75
April	74	0	9	1	65
May	82	0	10	1	72
June	95	0	9	1	85
July	87	0	9	0	77
Year to Date					
2015	683	5	64	8	606
2016	583	1	58	7	516
2017	566	2	64	7	493
Rolling 12 Months Ending in July					
2016	1,044	5	103	16	920
2017	999	3	111	9	876

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

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144
Year 2015					
January	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
Year 2016					
January	420	302	27	3	89
February	416	272	49	2	93
March	474	283	74	2	116
April	461	326	50	0	85
May	445	296	58	0	90
June	461	308	60	0	93
July	488	325	65	1	98
August	506	337	71	0	98
Sept	448	311	59	0	78
October	359	172	72	0	115
November	381	240	56	0	85
December	433	261	65	2	104
Year 2017					
January	436	301	53	2	79
February	332	218	45	1	69
March	363	215	52	2	94
April	229	110	42	1	76
May	403	265	51	1	87
June	439	283	51	1	104
July	420	272	52	0	95
Year to Date					
2015	3,127	1,884	468	9	767
2016	3,165	2,112	382	8	663
2017	2,622	1,664	346	8	604
Rolling 12 Months Ending in July					
2016	5,226	3,357	692	18	1,160
2017	4,748	2,985	668	10	1,085

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

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2007-July 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,189	5,045,514	4,642,081	68,639	643,955
Year 2015					
January	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
Year 2016					
January	803,496	390,470	353,701	5,845	53,480
February	716,939	352,730	309,115	5,032	50,062
March	775,091	379,524	337,795	5,413	52,359
April	753,775	364,603	333,632	5,304	50,236
May	839,337	409,691	371,145	5,604	52,897
June	1,006,981	501,185	445,296	6,087	54,412
July	1,179,364	576,840	538,874	6,656	56,994
August	1,191,376	573,095	554,337	6,741	57,203
Sept	951,076	454,440	436,438	5,961	54,237
October	775,622	368,496	350,464	5,153	51,510
November	700,757	332,274	308,648	5,332	54,504
December	706,376	342,166	302,636	5,512	56,061
Year 2017					
January	677,545	327,650	287,333	6,139	56,424
February	584,745	280,771	248,451	5,433	50,090
March	700,918	345,125	297,948	6,008	51,837
April	648,063	324,099	268,328	4,883	50,753
May	732,044	371,446	305,026	5,164	50,407
June	870,727	430,843	381,584	5,712	52,588
July	1,090,309	544,954	483,816	6,227	55,312
Year to Date					
2015	5,622,370	2,675,077	2,555,309	39,000	352,983
2016	6,074,982	2,975,044	2,689,558	39,940	370,440
2017	5,304,352	2,624,888	2,272,487	39,567	367,410
Rolling 12 Months Ending in July					
2016	10,469,188	5,045,222	4,710,932	71,032	642,002
2017	9,629,559	4,695,358	4,225,010	68,266	640,925

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	956,923	11,227	284,704	47,946	613,046
Year 2015					
January	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
Year 2016					
January	85,090	1,163	25,628	4,555	53,744
February	78,278	1,068	23,422	4,216	49,573
March	80,136	959	24,327	4,160	50,691
April	76,781	700	22,327	4,001	49,753
May	77,892	864	24,001	3,652	49,374
June	77,871	909	23,951	3,613	49,398
July	81,911	983	25,464	4,134	51,329
August	83,318	956	26,205	4,159	51,998
Sept	77,778	867	23,163	3,748	50,000
October	76,549	702	21,699	3,603	50,546
November	77,442	860	21,756	3,798	51,027
December	83,877	1,194	22,761	4,307	55,614
Year 2017					
January	86,570	1,164	22,966	5,166	57,274
February	77,792	872	20,183	4,382	52,356
March	84,133	841	23,209	4,285	55,797
April	77,370	758	20,709	3,634	52,269
May	77,118	685	19,971	3,678	52,784
June	76,992	685	21,032	3,934	51,342
July	80,867	805	21,929	4,245	53,888
Year to Date					
2015	535,548	4,250	164,540	26,584	340,175
2016	557,959	6,647	169,120	28,331	353,861
2017	560,842	5,810	149,998	29,324	375,709
Rolling 12 Months Ending in July					
2016	957,509	10,456	287,952	48,034	611,066
2017	959,807	10,390	265,582	48,940	634,894

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,113	5,056,741	4,926,785	116,586	1,257,001
Year 2015					
January	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
Year 2016					
January	888,586	391,633	379,329	10,400	107,224
February	795,217	353,798	332,537	9,248	99,635
March	855,227	380,483	362,122	9,572	103,049
April	830,556	365,304	355,959	9,304	99,989
May	917,229	410,556	395,146	9,256	102,271
June	1,084,852	502,095	469,247	9,700	103,810
July	1,261,274	577,823	564,338	10,790	108,323
August	1,274,694	574,051	580,542	10,901	109,201
Sept	1,028,854	455,308	459,601	9,708	104,238
October	852,172	369,198	372,162	8,756	102,055
November	778,199	333,134	330,404	9,130	105,531
December	790,252	343,360	325,397	9,820	111,675
Year 2017					
January	764,115	328,814	310,298	11,305	113,697
February	662,537	281,643	268,634	9,815	102,446
March	785,050	345,965	321,158	10,293	107,634
April	725,434	324,857	289,038	8,517	103,021
May	809,162	372,131	324,997	8,843	103,191
June	947,720	431,528	402,616	9,646	103,930
July	1,171,175	545,759	505,744	10,473	109,200
Year to Date					
2015	6,157,918	2,679,328	2,719,849	65,584	693,157
2016	6,632,941	2,981,691	2,858,678	68,271	724,301
2017	5,865,194	2,630,698	2,422,485	68,891	743,119
Rolling 12 Months Ending in July					
2016	11,426,697	5,055,678	4,998,884	119,066	1,253,068
2017	10,589,365	4,705,749	4,490,592	117,206	1,275,819

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241
Year 2015					
January	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
Year 2016					
January	28,779	2,572	23,258	2,481	467
February	26,323	2,469	21,261	2,183	410
March	26,918	2,473	21,197	2,724	524
April	27,153	2,585	22,247	1,867	454
May	27,948	2,606	22,797	2,071	473
June	26,392	2,389	21,901	1,729	372
July	27,016	2,395	22,290	1,916	415
August	28,815	2,711	23,770	1,924	410
Sept	26,511	2,506	21,856	1,769	382
October	28,975	2,862	23,249	2,417	447
November	26,381	2,417	21,441	2,091	433
December	28,306	2,521	23,165	2,166	455
Year 2017					
January	23,956	2,224	19,472	1,824	436
February	21,544	2,079	17,540	1,515	410
March	22,843	2,079	18,648	1,671	444
April	21,217	1,968	17,415	1,431	403
May	21,884	2,113	17,923	1,489	360
June	21,851	1,836	18,015	1,588	411
July	22,008	1,789	18,270	1,633	317
Year to Date					
2015	161,139	14,764	128,979	14,792	2,605
2016	190,529	17,489	154,952	14,973	3,115
2017	155,303	14,087	127,282	11,152	2,782
Rolling 12 Months Ending in July					
2016	311,920	27,982	253,354	25,431	5,152
2017	294,291	27,103	240,763	21,518	4,908

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,232	5	2,381	968	879
Year 2015					
January	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
Year 2016					
January	400	0	221	98	81
February	406	1	231	90	85
March	597	0	335	133	129
April	471	1	268	100	103
May	289	0	155	71	63
June	161	0	108	30	22
July	242	0	150	50	42
August	207	1	121	50	36
Sept	148	0	85	40	23
October	499	2	264	124	109
November	395	0	214	90	90
December	418	0	230	93	96
Year 2017					
January	243	0	159	46	38
February	206	0	134	40	32
March	224	1	139	49	35
April	237	0	104	97	36
May	173	0	97	46	29
June	255	0	185	45	24
July	219	1	139	39	40
Year to Date					
2015	861	1	341	312	207
2016	2,565	2	1,467	571	525
2017	1,558	2	958	363	234
Rolling 12 Months Ending in July					
2016	3,226	3	1,769	774	680
2017	3,225	5	1,872	760	588

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120
Year 2015					
January	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
Year 2016					
January	29,179	2,573	23,479	2,579	548
February	26,729	2,469	21,492	2,273	494
March	27,515	2,473	21,532	2,858	652
April	27,624	2,586	22,514	1,967	557
May	28,236	2,606	22,952	2,142	536
June	26,553	2,390	22,009	1,759	395
July	27,258	2,395	22,439	1,966	457
August	29,022	2,711	23,891	1,974	446
Sept	26,660	2,506	21,941	1,808	405
October	29,474	2,864	23,513	2,541	556
November	26,776	2,417	21,655	2,182	523
December	28,724	2,521	23,395	2,259	551
Year 2017					
January	24,199	2,224	19,631	1,870	474
February	21,750	2,079	17,674	1,555	442
March	23,066	2,080	18,787	1,720	480
April	21,454	1,968	17,519	1,528	439
May	22,057	2,113	18,020	1,535	389
June	22,106	1,836	18,201	1,634	435
July	22,227	1,790	18,409	1,673	356
Year to Date					
2015	162,000	14,765	129,320	15,103	2,811
2016	193,094	17,491	156,418	15,544	3,640
2017	156,861	14,090	128,240	11,515	3,016
Rolling 12 Months Ending in July					
2016	315,146	27,985	255,123	26,205	5,832
2017	297,516	27,108	242,635	22,278	5,496

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8
Year 2015					
January	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
Year 2016					
January	1,341	34	1,123	183	1
February	1,215	27	1,030	157	1
March	1,270	41	1,018	209	1
April	1,370	40	1,133	196	1
May	1,382	44	1,157	182	1
June	1,383	40	1,157	186	0
July	1,404	37	1,163	203	1
August	1,427	42	1,190	195	0
Sept	1,311	43	1,093	175	0
October	1,260	37	1,043	179	1
November	1,294	39	1,069	184	0
December	1,409	38	1,180	190	1
Year 2017					
January	1,437	35	1,207	195	0
February	1,244	19	1,045	180	0
March	1,324	36	1,097	192	0
April	1,289	35	1,058	196	0
May	1,408	36	1,158	213	1
June	1,419	38	1,186	194	1
July	1,421	41	1,171	208	1
Year to Date					
2015	9,509	258	7,877	1,370	4
2016	9,366	264	7,780	1,317	5
2017	9,541	239	7,921	1,378	3
Rolling 12 Months Ending in July					
2016	16,488	457	13,700	2,321	9
2017	16,242	439	13,497	2,301	5

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167
Year 2015					
January	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
Year 2016					
January	164	0	62	89	13
February	169	0	72	84	13
March	198	0	80	103	15
April	165	0	51	100	14
May	157	0	48	95	14
June	160	0	51	94	16
July	175	0	53	106	16
August	162	0	49	100	14
Sept	151	0	45	94	13
October	142	0	46	86	10
November	161	0	51	96	14
December	170	0	52	103	15
Year 2017					
January	197	0	55	122	20
February	167	0	49	105	12
March	188	0	63	105	19
April	168	0	55	96	18
May	172	0	51	103	18
June	174	0	53	105	16
July	168	0	57	95	17
Year to Date					
2015	1,150	0	377	654	119
2016	1,188	0	417	671	100
2017	1,234	0	382	732	120
Rolling 12 Months Ending in July					
2016	2,023	0	695	1,144	185
2017	2,020	0	623	1,210	187

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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-July 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174
Year 2015					
January	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
Year 2016					
January	1,505	34	1,185	272	14
February	1,383	27	1,102	241	14
March	1,468	41	1,098	312	16
April	1,536	40	1,184	297	15
May	1,539	44	1,205	277	14
June	1,544	40	1,207	280	16
July	1,579	37	1,216	309	17
August	1,590	42	1,239	294	15
Sept	1,462	43	1,138	269	13
October	1,402	37	1,089	265	11
November	1,455	39	1,120	281	15
December	1,578	38	1,231	293	16
Year 2017					
January	1,634	35	1,262	317	20
February	1,410	19	1,094	286	12
March	1,512	36	1,160	297	19
April	1,457	35	1,112	292	18
May	1,580	36	1,209	317	19
June	1,593	38	1,239	299	17
July	1,589	41	1,228	302	18
Year to Date					
2015	10,659	258	8,254	2,024	123
2016	10,554	264	8,197	1,988	106
2017	10,775	239	8,303	2,110	123
Rolling 12 Months Ending in July					
2016	18,511	457	14,394	3,465	194
2017	18,262	439	14,120	3,511	192

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-July 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569
Year 2015					
January	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
Year 2016					
January	34,287	4,250	13,946	62	16,028
February	32,746	3,992	13,892	58	14,803
March	32,635	3,528	13,931	26	15,150
April	27,119	2,672	10,235	42	14,171
May	29,056	2,739	10,908	19	15,391
June	32,206	3,928	12,661	80	15,537
July	34,444	4,286	14,099	70	15,990
August	34,893	4,290	14,544	120	15,939
Sept	31,815	3,558	13,060	67	15,131
October	28,597	2,676	10,881	37	15,003
November	29,901	2,839	11,531	30	15,500
December	33,919	4,349	13,583	61	15,926
Year 2017					
January	32,399	3,603	12,806	78	15,912
February	30,715	3,162	12,417	66	15,069
March	32,946	4,066	13,687	31	15,161
April	30,033	2,964	12,319	42	14,708
May	31,074	3,236	13,092	58	14,687
June	31,355	3,585	12,562	52	15,156
July	34,193	3,175	14,694	56	16,267
Year to Date					
2015	237,408	25,423	100,989	335	110,662
2016	222,494	25,395	89,672	357	107,070
2017	222,714	23,793	91,578	385	106,959
Rolling 12 Months Ending in July					
2016	391,736	43,891	160,071	526	187,248
2017	381,838	41,505	155,176	699	184,458

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-July 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	924,785	8,469	17,016	4,321	894,978
Year 2015					
January	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
Year 2016					
January	82,391	864	1,751	471	79,306
February	75,353	893	1,750	412	72,298
March	75,758	871	1,365	274	73,249
April	73,341	710	1,395	344	70,893
May	76,050	659	1,339	271	73,780
June	77,024	563	1,356	375	74,730
July	78,025	689	1,273	363	75,700
August	77,846	709	1,280	423	75,434
Sept	73,401	411	1,426	363	71,201
October	73,927	349	1,084	328	72,167
November	78,622	789	1,415	321	76,098
December	83,046	962	1,583	377	80,124
Year 2017					
January	81,090	807	1,750	503	78,031
February	73,357	846	2,030	413	70,067
March	79,865	742	1,565	293	77,265
April	73,919	667	1,734	286	71,232
May	74,799	772	1,810	286	71,932
June	77,829	733	1,760	308	75,029
July	80,332	980	1,702	339	77,311
Year to Date					
2015	551,877	5,477	10,990	2,183	533,227
2016	537,942	5,249	10,229	2,509	519,955
2017	541,192	5,547	12,350	2,428	520,867
Rolling 12 Months Ending in July					
2016	930,027	9,123	18,438	4,041	898,425
2017	928,035	8,767	19,137	4,240	895,890

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, July 2017 and July 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	20	109	-82.0%	11	26	8	83	0	0	NM	NM
Connecticut	7	8	-8.5%	0	0	7	8	0	0	0	0
Maine	1	1	-10.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	74	-100.0%	0	0	0	74	0	0	0	NM
New Hampshire	11	26	-57.0%	11	26	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,372	3,041	-22.0%	0	0	2,359	3,021	0	0	13	20
New Jersey	47	58	-19.0%	0	0	47	58	0	0	0	0
New York	22	124	-82.0%	0	0	18	116	0	0	4	7
Pennsylvania	2,303	2,859	-19.0%	0	0	2,294	2,847	0	0	10	12
East North Central	14,679	15,100	-2.8%	9,226	8,875	5,385	6,162	3	2	65	62
Illinois	3,553	3,967	-10.0%	202	213	3,296	3,710	2	NM	53	43
Indiana	3,781	3,674	2.9%	3,640	3,520	139	152	1	1	0	NM
Michigan	2,445	2,308	5.9%	2,419	2,282	24	21	0	0	2	5
Ohio	2,675	3,044	-12.0%	747	763	1,927	2,277	0	0	1	4
Wisconsin	2,226	2,107	5.7%	2,217	2,097	0	0	0	0	9	10
West North Central	12,460	12,355	0.9%	12,341	12,234	0	NM	2	4	116	116
Iowa	1,835	1,910	-3.9%	1,766	1,843	0	0	2	3	67	63
Kansas	1,662	1,640	1.4%	1,662	1,640	0	0	0	0	0	0
Minnesota	1,392	1,302	6.9%	1,379	1,280	0	0	0	NM	13	22
Missouri	3,921	3,785	3.6%	3,921	3,783	0	NM	0	0	0	NM
Nebraska	1,415	1,322	7.1%	1,385	1,298	0	0	0	0	31	24
North Dakota	2,102	2,246	-6.4%	2,096	2,241	0	0	0	0	NM	5
South Dakota	133	149	-11.0%	133	149	0	0	0	0	0	0
South Atlantic	10,759	12,406	-13.0%	9,506	10,904	1,238	1,474	1	2	15	27
Delaware	55	53	4.8%	0	0	55	53	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,757	2,100	-16.0%	1,744	2,035	10	61	0	0	3	3
Georgia	1,916	2,445	-22.0%	1,913	2,439	0	0	0	0	3	5
Maryland	601	793	-24.0%	0	0	599	791	0	0	2	2
North Carolina	1,939	2,113	-8.2%	1,929	2,077	8	33	1	1	2	3
South Carolina	862	1,074	-20.0%	861	1,070	0	0	0	0	NM	4
Virginia	672	815	-18.0%	640	762	29	47	0	NM	3	5
West Virginia	2,957	3,013	-1.9%	2,420	2,520	538	489	0	0	0	4
East South Central	6,840	7,607	-10.0%	6,559	7,261	267	329	0	0	14	17
Alabama	1,860	1,917	-3.0%	1,859	1,915	0	0	0	0	1	2
Kentucky	2,879	3,268	-12.0%	2,879	3,268	0	0	0	0	0	0
Mississippi	418	580	-28.0%	151	251	267	329	0	0	0	0
Tennessee	1,683	1,842	-8.7%	1,670	1,827	0	0	0	0	13	15
West South Central	13,224	13,648	-3.1%	6,453	6,534	6,759	7,096	0	0	13	18
Arkansas	1,641	1,588	3.4%	1,438	1,332	202	255	0	0	1	1
Louisiana	939	1,192	-21.0%	660	735	278	457	0	0	0	0
Oklahoma	1,104	1,284	-14.0%	980	1,133	112	134	0	0	12	17
Texas	9,539	9,584	-0.5%	3,374	3,334	6,166	6,250	0	0	0	0
Mountain	9,207	9,303	-1.0%	8,128	8,192	1,044	1,052	0	0	35	59
Arizona	1,784	1,704	4.7%	1,784	1,704	0	0	0	0	0	0
Colorado	1,627	1,647	-1.2%	1,627	1,645	0	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	932	946	-1.4%	25	NM	908	924	0	0	0	NM
Nevada	178	225	-21.0%	125	169	53	55	0	0	0	0
New Mexico	973	1,142	-15.0%	973	1,142	0	0	0	0	0	0
Utah	1,252	1,181	6.0%	1,194	1,109	38	NM	0	0	20	45
Wyoming	2,459	2,457	0.1%	2,400	2,402	45	43	0	0	14	12
Pacific Contiguous	484	569	-15.0%	161	152	317	410	0	0	6	7
California	5	6	-11.0%	0	0	0	0	0	0	5	6
Oregon	161	152	6.1%	161	152	0	0	0	0	0	0
Washington	317	411	-23.0%	0	0	317	410	0	0	1	1
Pacific Noncontiguous	105	102	2.8%	19	17	82	79	4	3	0	NM
Alaska	37	34	9.0%	19	17	NM	13	4	3	0	0
Hawaii	68	68	-0.2%	0	0	68	66	0	0	0	NM
U.S. Total	70,150	74,241	-5.5%	52,403	54,196	17,458	19,706	10	11	279	328

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 July 2017 and July 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	716	730	-1.9%	76	98	635	628	0	0	NM	4
Connecticut	70	47	50.0%	0	0	70	47	0	0	0	0
Maine	11	9	24.0%	0	0	6	7	0	0	NM	2
Massachusetts	559	576	-3.0%	0	0	559	574	0	0	0	2
New Hampshire	76	98	-22.0%	76	98	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	13,836	15,698	-12.0%	0	0	13,738	15,566	0	0	98	132
New Jersey	292	322	-9.3%	0	0	292	322	0	0	0	0
New York	237	459	-48.0%	0	0	203	416	0	0	35	43
Pennsylvania	13,307	14,917	-11.0%	0	0	13,243	14,828	0	0	63	89
East North Central	84,329	81,248	3.8%	51,611	49,231	32,239	31,535	15	18	464	465
Illinois	20,063	20,336	-1.3%	1,306	1,160	18,379	18,852	11	8	367	317
Indiana	20,416	20,766	-1.7%	19,683	19,565	729	1,194	4	6	0	0
Michigan	14,837	13,436	10.0%	14,663	13,251	154	141	0	4	21	40
Ohio	17,287	16,189	6.8%	4,303	4,809	12,976	11,348	0	0	7	33
Wisconsin	11,726	10,520	11.0%	11,656	10,446	0	0	0	0	69	74
West North Central	68,375	65,135	5.0%	67,544	64,321	0	6	23	30	808	778
Iowa	9,178	8,151	13.0%	8,759	7,719	0	0	15	21	404	411
Kansas	7,428	7,996	-7.1%	7,428	7,996	0	0	0	0	0	0
Minnesota	7,845	7,594	3.3%	7,684	7,442	0	0	4	3	157	149
Missouri	23,363	21,095	11.0%	23,358	21,075	0	6	5	6	0	8
Nebraska	7,356	7,252	1.4%	7,147	7,080	0	0	0	0	209	172
North Dakota	12,413	12,180	1.9%	12,376	12,142	0	0	0	0	NM	38
South Dakota	792	867	-8.7%	792	867	0	0	0	0	0	0
South Atlantic	55,115	59,152	-6.8%	49,613	52,134	5,389	6,831	11	12	102	175
Delaware	101	158	-36.0%	0	0	101	158	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	10,317	9,462	9.0%	10,286	9,274	10	167	0	0	21	22
Georgia	9,917	11,067	-10.0%	9,894	11,037	0	0	0	0	24	30
Maryland	2,025	3,327	-39.0%	0	0	2,013	3,315	0	0	12	12
North Carolina	8,174	8,152	0.3%	8,113	8,057	35	67	6	7	19	21
South Carolina	4,685	5,304	-12.0%	4,680	5,273	0	0	0	0	NM	31
Virginia	3,393	4,545	-25.0%	3,234	4,371	132	136	5	5	22	33
West Virginia	16,503	17,136	-3.7%	13,405	14,122	3,098	2,988	0	0	0	26
East South Central	37,687	38,994	-3.4%	35,955	37,146	1,639	1,724	0	0	93	124
Alabama	9,701	9,371	3.5%	9,692	9,358	0	0	0	0	9	13
Kentucky	17,338	18,437	-6.0%	17,338	18,437	0	0	0	0	0	0
Mississippi	2,410	2,543	-5.2%	771	818	1,639	1,724	0	0	0	0
Tennessee	8,238	8,644	-4.7%	8,155	8,533	0	0	0	0	84	111
West South Central	72,107	61,970	16.0%	33,595	30,275	38,417	31,589	0	0	95	106
Arkansas	8,502	6,847	24.0%	7,682	5,517	813	1,322	0	0	7	8
Louisiana	5,210	5,014	3.9%	3,256	3,484	1,954	1,530	0	0	0	0
Oklahoma	5,837	5,831	0.1%	5,206	5,111	543	621	0	0	88	98
Texas	52,558	44,278	19.0%	17,451	16,162	35,107	28,116	0	0	0	0
Mountain	51,327	49,215	4.3%	45,617	43,572	5,568	5,412	0	0	142	232
Arizona	9,370	8,839	6.0%	9,370	8,839	0	0	0	0	0	0
Colorado	9,728	9,261	5.1%	9,725	9,250	0	9	0	0	4	2
Idaho	NM	8	NM	0	0	0	0	0	0	NM	8
Montana	4,861	4,818	0.9%	161	110	4,698	4,704	0	0	2	NM
Nevada	662	658	0.6%	334	377	328	281	0	0	0	0
New Mexico	6,237	5,728	8.9%	6,237	5,728	0	0	0	0	0	0
Utah	6,686	6,457	3.5%	6,404	6,155	236	174	0	0	46	129
Wyoming	13,776	13,446	2.5%	13,385	13,113	307	245	0	0	84	89
Pacific Contiguous	1,400	1,231	14.0%	495	395	862	788	0	0	42	48
California	38	43	-12.0%	0	0	0	0	0	0	38	43
Oregon	495	395	25.0%	495	395	0	0	0	0	0	0
Washington	866	793	9.3%	0	0	862	788	0	0	4	5
Pacific Noncontiguous	613	693	-12.0%	116	148	472	514	25	24	0	7
Alaska	219	272	-19.0%	116	148	NM	100	25	24	0	0
Hawaii	394	421	-6.4%	0	0	394	414	0	0	0	7
U.S. Total	385,505	374,065	3.1%	284,622	277,318	98,960	94,593	75	83	1,849	2,070

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	121	131	-8.1%	3	19	103	106	4	NM	11	2
Connecticut	69	39	77.0%	1	NM	68	36	NM	NM	0	NM
Maine	24	13	91.0%	0	NM	13	11	0	NM	11	1
Massachusetts	24	62	-61.0%	NM	3	21	58	2	NM	0	NM
New Hampshire	2	14	-85.0%	1	14	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	0	2	NM	NM	0	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	290	197	47.0%	74	61	207	129	6	NM	3	4
New Jersey	44	6	688.0%	NM	NM	44	NM	0	NM	NM	NM
New York	197	127	56.0%	74	61	118	62	NM	NM	2	2
Pennsylvania	48	64	-25.0%	0	NM	45	62	2	NM	1	NM
East North Central	73	96	-24.0%	45	62	25	32	1	1	2	1
Illinois	5	8	-33.0%	1	NM	4	7	0	NM	0	0
Indiana	13	20	-32.0%	12	19	0	NM	0	NM	1	1
Michigan	18	26	-30.0%	17	26	0	0	1	0	0	NM
Ohio	31	35	-12.0%	9	10	21	25	0	NM	0	NM
Wisconsin	NM	7	NM	NM	7	0	0	0	NM	NM	NM
West North Central	32	40	-19.0%	31	38	1	NM	0	NM	0	NM
Iowa	NM	7	NM	NM	7	0	NM	0	NM	0	NM
Kansas	6	8	-29.0%	6	8	0	0	0	0	0	0
Minnesota	NM	10	NM	NM	9	NM	NM	0	NM	0	NM
Missouri	5	9	-41.0%	5	9	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	NM	2	NM	NM	2	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	228	662	-66.0%	171	584	45	69	7	NM	NM	9
Delaware	NM	9	NM	0	NM	NM	8	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	51	429	-88.0%	50	419	1	NM	0	0	NM	NM
Georgia	17	15	16.0%	14	12	NM	NM	NM	NM	NM	3
Maryland	30	30	-0.7%	1	NM	29	28	1	NM	0	0
North Carolina	27	29	-6.1%	25	24	NM	NM	0	NM	NM	2
South Carolina	19	14	39.0%	18	13	0	NM	NM	NM	1	NM
Virginia	62	124	-50.0%	49	105	8	18	6	NM	NM	NM
West Virginia	15	12	29.0%	15	8	0	3	0	0	0	0
East South Central	50	62	-19.0%	49	58	NM	NM	0	NM	NM	NM
Alabama	NM	NM	NM	4	3	NM	NM	0	0	NM	NM
Kentucky	16	22	-29.0%	16	22	0	0	0	0	0	0
Mississippi	2	3	-41.0%	2	3	0	0	0	0	0	0
Tennessee	27	29	-8.0%	27	29	0	NM	0	NM	0	NM
West South Central	21	15	43.0%	11	11	9	3	0	NM	1	NM
Arkansas	7	NM	NM	NM	2	5	1	0	0	0	NM
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	NM	1	NM	NM	1	0	0	0	NM	0	NM
Texas	11	9	17.0%	6	7	4	2	0	NM	0	NM
Mountain	33	31	3.6%	29	25	4	6	0	NM	0	NM
Arizona	11	7	54.0%	11	7	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	3	5	-48.0%	NM	NM	3	5	0	0	0	0
Nevada	3	4	-22.0%	3	3	1	1	0	0	0	0
New Mexico	NM	6	NM	NM	6	0	0	0	0	0	NM
Utah	4	4	1.6%	4	4	0	NM	0	0	0	NM
Wyoming	3	4	-5.0%	3	3	0	0	0	0	0	NM
Pacific Contiguous	18	29	-38.0%	10	7	7	4	NM	NM	2	17
California	NM	23	NM	NM	6	0	NM	0	NM	0	16
Oregon	3	2	92.0%	3	2	0	0	0	NM	0	0
Washington	8	4	110.0%	NM	NM	7	3	NM	NM	1	1
Pacific Noncontiguous	962	942	2.2%	826	811	113	112	1	2	23	18
Alaska	133	103	29.0%	126	96	0	0	NM	NM	7	6
Hawaii	830	839	-1.2%	700	715	113	112	1	1	16	11
U.S. Total	1,828	2,205	-17.0%	1,249	1,677	514	461	18	11	48	57

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	524	564	-7.1%	55	72	404	449	45	28	20	14
Connecticut	157	111	42.0%	6	6	148	93	NM	NM	1	NM
Maine	84	181	-53.0%	0	NM	63	169	4	NM	18	9
Massachusetts	226	209	8.0%	NM	23	185	175	26	11	2	NM
New Hampshire	34	36	-6.6%	27	31	NM	NM	7	5	0	NM
Rhode Island	NM	24	NM	5	11	NM	10	6	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	935	1,182	-21.0%	230	360	636	763	34	21	35	38
New Jersey	114	103	11.0%	NM	NM	114	98	0	NM	NM	NM
New York	533	742	-28.0%	230	357	254	347	NM	16	23	22
Pennsylvania	287	336	-15.0%	0	NM	267	318	7	NM	12	14
East North Central	521	651	-20.0%	330	404	174	228	4	4	13	14
Illinois	55	86	-36.0%	6	7	48	78	0	1	0	0
Indiana	123	135	-8.8%	115	126	0	NM	0	NM	8	9
Michigan	103	159	-35.0%	97	154	0	0	3	2	3	3
Ohio	201	232	-13.0%	75	81	125	148	0	NM	1	3
Wisconsin	NM	40	NM	NM	37	0	3	0	NM	NM	0
West North Central	340	287	18.0%	333	278	5	NM	1	2	1	1
Iowa	NM	64	NM	NM	63	1	1	0	NM	0	NM
Kansas	82	57	44.0%	82	57	0	0	0	0	0	0
Minnesota	NM	33	NM	NM	26	NM	NM	1	NM	1	1
Missouri	58	87	-34.0%	57	87	0	NM	0	NM	0	0
Nebraska	NM	9	NM	NM	9	0	0	0	0	0	0
North Dakota	NM	34	NM	NM	33	0	0	0	NM	0	0
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	2,057	2,634	-22.0%	1,685	1,975	304	597	31	NM	NM	57
Delaware	NM	81	NM	0	NM	NM	78	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	564	796	-29.0%	552	769	7	17	0	0	NM	9
Georgia	129	156	-17.0%	94	99	NM	34	NM	2	NM	20
Maryland	129	252	-49.0%	2	11	124	238	1	NM	1	2
North Carolina	352	339	3.8%	323	273	NM	60	0	NM	NM	6
South Carolina	157	156	0.7%	146	136	2	NM	NM	NM	9	17
Virginia	570	738	-23.0%	442	571	99	164	28	NM	NM	2
West Virginia	127	116	9.3%	126	112	0	4	0	0	0	0
East South Central	305	357	-15.0%	287	329	NM	11	0	NM	NM	16
Alabama	NM	62	NM	29	36	NM	11	0	0	NM	15
Kentucky	118	130	-9.8%	118	130	0	0	0	0	0	0
Mississippi	15	21	-27.0%	14	21	0	0	0	0	1	1
Tennessee	127	144	-12.0%	126	143	0	NM	0	NM	1	1
West South Central	181	182	-0.4%	97	121	79	55	1	NM	4	5
Arkansas	57	47	23.0%	NM	34	36	11	0	0	1	2
Louisiana	NM	21	NM	NM	18	0	3	0	0	0	0
Oklahoma	NM	19	NM	NM	18	0	0	0	NM	1	1
Texas	84	95	-12.0%	38	51	43	41	1	NM	1	NM
Mountain	263	264	-0.3%	234	233	28	30	0	NM	0	NM
Arizona	67	65	2.8%	67	65	0	0	0	NM	0	0
Colorado	NM	11	NM	NM	11	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	23	27	-14.0%	NM	NM	22	27	0	0	0	0
Nevada	12	16	-26.0%	7	13	5	3	0	0	0	0
New Mexico	NM	63	NM	NM	63	0	0	0	0	0	NM
Utah	43	30	45.0%	41	29	1	NM	0	0	0	NM
Wyoming	55	52	4.3%	55	52	0	0	0	0	0	NM
Pacific Contiguous	90	120	-25.0%	50	41	20	20	NM	NM	19	58
California	NM	96	NM	NM	35	6	10	1	NM	9	51
Oregon	9	4	120.0%	9	4	0	0	0	NM	0	0
Washington	28	20	38.0%	NM	NM	13	10	NM	NM	10	8
Pacific Noncontiguous	6,660	6,233	6.9%	5,765	5,426	733	686	10	10	152	110
Alaska	945	739	28.0%	897	693	0	0	NM	5	42	42
Hawaii	5,715	5,493	4.0%	4,867	4,733	733	686	5	6	110	68
U.S. Total	11,875	12,473	-4.8%	9,068	9,239	2,387	2,847	127	73	294	314

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	6	NM	0	0	0	0	0	0	NM	6
New Jersey	1	NM	NM	0	0	0	0	0	0	1	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	4	NM	0	0	0	0	0	0	NM	4
East North Central	78	83	-6.3%	46	38	29	41	0	0	3	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	43	37	16.0%	40	33	0	0	0	0	3	4
Ohio	29	41	-30.0%	0	0	29	41	0	0	0	0
Wisconsin	6	5	23.0%	6	5	0	0	0	0	0	0
West North Central	0	2	-98.0%	0	0	0	0	0	0	0	NM
Iowa	0	2	-98.0%	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	35	84	-58.0%	32	82	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	32	82	-60.0%	32	82	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	12	47	-75.0%	12	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	12	47	-75.0%	12	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	189	164	15.0%	181	157	0	0	0	0	8	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	185	161	15.0%	181	157	0	0	0	0	3	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	5	4	29.0%	0	0	0	0	0	0	5	4
Mountain	14	16	-7.8%	0	0	14	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	14	16	-7.8%	0	0	14	16	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	333	403	-17.0%	271	325	43	56	0	0	18	22

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	36	NM	0	0	0	0	0	0	NM	36
New Jersey	4	NM	NM	0	0	0	0	0	0	4	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	27	NM	0	0	0	0	0	0	NM	27
East North Central	485	604	-20.0%	283	341	187	232	0	0	16	31
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	279	189	47.0%	263	165	0	1	0	0	16	23
Ohio	187	232	-20.0%	0	0	187	231	0	0	0	1
Wisconsin	20	24	-15.0%	20	17	0	0	0	0	0	7
West North Central	10	16	-38.0%	0	0	0	0	1	1	9	15
Iowa	10	16	-38.0%	0	0	0	0	1	1	9	15
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	189	510	-63.0%	173	495	0	0	0	0	NM	16
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	173	495	-65.0%	173	495	0	0	0	0	0	0
Georgia	NM	16	NM	0	0	0	0	0	0	NM	16
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	166	264	-37.0%	166	264	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	166	264	-37.0%	166	264	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	1,084	1,059	2.4%	1,040	1,011	0	0	0	0	44	48
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,061	1,032	2.8%	1,040	1,011	0	0	0	0	20	21
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24	27	-13.0%	0	0	0	0	0	0	24	27
Mountain	95	92	3.7%	0	0	95	92	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	95	92	3.7%	0	0	95	92	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,056	2,582	-20.0%	1,662	2,110	282	324	1	1	112	147

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	40,354	47,867	-16.0%	NM	811	38,338	45,231	645	891	895	934
Connecticut	11,582	12,320	-6.0%	30	0	10,803	11,442	253	393	496	486
Maine	2,035	3,570	-43.0%	0	0	1,783	3,243	34	NM	218	297
Massachusetts	18,870	21,764	-13.0%	NM	613	17,971	20,631	285	381	170	138
New Hampshire	2,940	4,184	-30.0%	1	197	2,922	3,951	5	NM	12	NM
Rhode Island	4,927	6,028	-18.0%	0	0	4,858	5,963	69	NM	0	0
Vermont	1	NM	NM	0	1	0	0	0	NM	0	0
Middle Atlantic	121,611	154,905	-21.0%	12,882	15,887	106,565	136,855	986	1,018	1,177	1,144
New Jersey	24,614	38,847	-37.0%	164	NM	23,966	38,259	162	175	322	306
New York	47,835	58,834	-19.0%	12,708	15,761	34,223	42,131	699	718	205	224
Pennsylvania	49,162	57,223	-14.0%	11	NM	48,376	56,465	124	NM	651	614
East North Central	85,224	101,676	-16.0%	39,802	47,336	42,144	51,623	1,091	1,035	2,187	1,681
Illinois	13,725	23,491	-42.0%	NM	2,188	11,590	20,587	384	376	490	340
Indiana	14,070	15,886	-11.0%	10,864	12,669	2,206	2,761	99	112	901	345
Michigan	22,368	25,645	-13.0%	9,145	12,822	12,313	11,648	299	337	NM	837
Ohio	20,490	22,711	-9.8%	5,428	7,295	14,717	15,227	285	NM	60	40
Wisconsin	14,571	13,943	4.5%	13,105	12,361	1,318	1,401	24	61	NM	119
West North Central	25,657	25,821	-0.6%	22,502	21,571	2,256	3,494	259	346	641	410
Iowa	4,417	3,412	29.0%	3,879	3,161	NM	NM	69	NM	468	194
Kansas	3,953	3,248	22.0%	3,890	3,163	0	0	0	0	63	85
Minnesota	8,691	8,685	0.1%	7,382	6,797	1,161	1,646	74	NM	74	88
Missouri	5,072	7,270	-30.0%	3,831	5,252	1,094	1,848	115	136	31	NM
Nebraska	1,897	1,100	72.0%	1,897	1,100	0	0	0	NM	0	0
North Dakota	361	1,075	-66.0%	NM	1,066	0	0	0	0	4	NM
South Dakota	1,266	1,031	23.0%	1,266	1,031	0	0	0	0	0	0
South Atlantic	254,351	267,405	-4.9%	202,363	205,655	48,301	58,235	665	743	3,022	2,772
Delaware	5,307	8,555	-38.0%	34	NM	4,154	7,341	0	0	1,119	1,130
District of Columbia	62	NM	NM	0	0	0	0	62	NM	0	0
Florida	122,898	122,939	0.0%	114,524	109,374	7,654	12,729	10	NM	710	808
Georgia	39,068	43,221	-9.6%	27,827	32,344	10,804	10,604	0	0	437	274
Maryland	6,421	10,157	-37.0%	0	0	5,802	9,474	571	631	47	52
North Carolina	27,534	29,229	-5.8%	23,220	24,213	4,249	4,919	8	10	57	87
South Carolina	13,298	15,638	-15.0%	11,329	12,877	1,871	2,720	0	NM	98	36
Virginia	38,091	36,755	3.6%	25,249	26,440	12,505	10,099	13	NM	324	209
West Virginia	1,671	849	97.0%	181	323	1,261	349	0	0	229	177
East South Central	97,237	103,312	-5.9%	66,099	69,128	29,899	32,904	47	130	1,192	1,149
Alabama	43,230	44,921	-3.8%	15,777	14,826	26,887	29,504	0	0	566	591
Kentucky	7,584	8,181	-7.3%	6,944	7,015	489	1,010	0	0	151	155
Mississippi	38,109	39,827	-4.3%	35,401	37,228	2,510	2,390	0	NM	198	203
Tennessee	8,313	10,383	-20.0%	7,977	10,059	12	0	47	125	277	199
West South Central	283,858	289,156	-1.8%	96,687	112,071	146,769	134,316	757	733	39,645	42,035
Arkansas	14,540	15,914	-8.6%	4,829	7,546	9,591	8,278	0	NM	119	88
Louisiana	46,163	55,912	-17.0%	27,477	33,829	2,405	4,422	127	NM	16,154	17,512
Oklahoma	33,798	33,725	0.2%	22,273	24,059	11,359	9,572	0	NM	165	80
Texas	189,358	183,605	3.1%	42,107	46,638	123,413	112,044	630	569	23,207	24,355
Mountain	88,882	90,490	-1.8%	66,622	65,211	20,858	24,007	414	377	988	895
Arizona	34,044	36,615	-7.0%	20,876	19,425	13,037	17,079	132	112	0	0
Colorado	12,324	11,446	7.7%	9,957	9,290	2,344	2,133	0	0	22	NM
Idaho	3,334	2,600	28.0%	2,046	2,048	1,197	456	35	0	NM	96
Montana	676	885	-24.0%	533	795	143	NM	0	0	0	0
Nevada	23,052	22,583	2.1%	21,272	20,829	1,433	1,459	57	66	290	230
New Mexico	9,262	9,132	1.4%	6,597	6,423	2,556	2,591	107	118	2	0
Utah	5,600	6,771	-17.0%	5,001	6,122	146	199	84	80	368	370
Wyoming	591	458	29.0%	339	NM	2	NM	0	0	NM	177
Pacific Contiguous	91,218	96,607	-5.6%	35,669	37,124	48,686	52,209	1,363	1,382	5,500	5,891
California	70,677	76,696	-7.8%	24,059	26,453	39,872	43,099	1,325	1,326	5,421	5,818
Oregon	10,561	10,448	1.1%	5,355	4,948	5,133	5,405	NM	NM	NM	47
Washington	9,980	9,463	5.5%	6,255	5,724	3,681	3,706	1	NM	NM	26
Pacific Noncontiguous	1,918	2,127	-9.8%	1,853	2,044	0	0	0	0	65	NM
Alaska	1,918	2,127	-9.8%	1,853	2,044	0	0	0	0	65	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,090,309	1,179,364	-7.6%	544,954	576,840	483,816	538,874	6,227	6,656	55,312	56,994

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 July 2017 and July 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	221,639	236,483	-6.3%	NM	1,635	209,786	224,357	4,451	5,303	5,427	5,187
Connecticut	63,906	76,414	-16.0%	220	12	58,832	71,271	1,839	2,284	3,015	2,846
Maine	10,187	14,926	-32.0%	0	0	8,807	13,256	191	NM	1,189	1,496
Massachusetts	107,297	98,723	8.7%	NM	1,315	102,607	94,292	2,043	2,350	1,140	767
New Hampshire	14,396	17,923	-20.0%	241	304	13,995	17,406	77	NM	83	NM
Rhode Island	25,841	28,492	-9.3%	0	0	25,545	28,133	296	359	0	0
Vermont	13	NM	NM	7	3	0	0	5	NM	0	0
Middle Atlantic	599,212	731,322	-18.0%	58,870	69,300	527,699	648,857	5,668	6,260	6,975	6,904
New Jersey	131,013	181,957	-28.0%	656	NM	127,419	178,694	947	1,017	1,991	1,792
New York	232,443	270,440	-14.0%	58,179	68,805	169,044	195,754	3,883	4,543	1,337	1,338
Pennsylvania	235,756	278,925	-15.0%	35	NM	231,235	274,409	838	700	3,647	3,775
East North Central	409,886	523,447	-22.0%	176,887	235,814	210,083	270,181	6,505	6,073	16,411	11,379
Illinois	59,376	86,391	-31.0%	NM	7,802	50,371	74,729	2,092	1,894	2,996	1,966
Indiana	76,715	91,529	-16.0%	58,347	71,136	11,003	17,465	655	657	6,710	2,271
Michigan	112,218	143,305	-22.0%	35,502	52,285	69,680	82,914	1,949	2,287	NM	5,819
Ohio	107,246	124,856	-14.0%	31,144	33,861	73,961	89,990	1,594	816	547	189
Wisconsin	54,331	77,366	-30.0%	47,976	70,730	5,068	5,084	216	419	NM	1,133
West North Central	94,009	113,803	-17.0%	79,640	93,233	9,479	15,562	1,809	2,212	3,081	2,797
Iowa	15,275	14,903	2.5%	13,103	13,124	NM	NM	362	399	1,808	1,379
Kansas	12,739	11,603	9.8%	12,457	11,193	0	0	0	0	282	410
Minnesota	32,978	43,492	-24.0%	27,477	34,507	3,954	7,213	885	1,096	662	675
Missouri	20,775	30,387	-32.0%	14,380	21,151	5,524	8,347	559	712	312	177
Nebraska	5,035	3,698	36.0%	5,032	3,609	0	0	4	NM	0	85
North Dakota	2,918	5,098	-43.0%	NM	5,027	0	0	0	0	16	71
South Dakota	4,289	4,621	-7.2%	4,289	4,621	0	0	0	0	0	0
South Atlantic	1,367,756	1,426,799	-4.1%	1,113,108	1,141,726	230,967	264,206	4,348	4,278	19,333	16,589
Delaware	28,698	37,182	-23.0%	69	NM	21,995	30,154	0	0	6,635	6,760
District of Columbia	420	359	17.0%	0	0	0	0	420	359	0	0
Florida	668,444	704,140	-5.1%	626,303	634,319	37,192	64,489	88	NM	4,862	5,173
Georgia	211,074	231,537	-8.8%	155,084	174,845	53,292	54,854	0	0	2,698	1,839
Maryland	30,357	31,357	-3.2%	0	0	26,326	27,413	3,728	3,657	302	287
North Carolina	159,168	175,830	-9.5%	136,230	153,854	22,588	21,376	41	40	309	560
South Carolina	74,532	71,868	3.7%	64,133	57,677	9,576	13,880	2	NM	821	287
Virginia	189,720	168,009	13.0%	130,363	119,941	57,051	46,642	70	NM	2,236	1,385
West Virginia	5,344	6,518	-18.0%	926	823	2,947	5,399	0	0	1,471	297
East South Central	487,125	551,308	-12.0%	328,641	364,446	149,862	178,317	625	765	7,997	7,781
Alabama	217,945	240,661	-9.4%	81,714	77,111	132,174	159,040	0	0	4,057	4,511
Kentucky	31,266	40,475	-23.0%	28,356	36,337	1,831	3,157	0	0	1,080	981
Mississippi	193,762	218,295	-11.0%	176,675	200,783	15,787	16,121	15	NM	1,286	1,365
Tennessee	44,152	51,877	-15.0%	41,896	50,215	70	0	610	738	1,575	924
West South Central	1,332,388	1,564,118	-15.0%	408,341	543,131	656,078	741,300	4,313	4,461	263,655	275,226
Arkansas	66,074	80,992	-18.0%	18,611	34,366	46,513	45,590	1	NM	950	1,022
Louisiana	264,499	325,140	-19.0%	136,253	173,615	16,990	31,648	821	983	110,435	118,895
Oklahoma	128,937	163,998	-21.0%	83,171	115,771	44,937	47,599	0	NM	829	581
Texas	872,878	993,987	-12.0%	170,306	219,380	547,638	616,462	3,492	3,417	151,441	154,728
Mountain	373,980	438,912	-15.0%	286,740	334,393	77,607	95,685	2,622	2,269	7,012	6,566
Arizona	117,638	149,065	-21.0%	79,825	93,309	36,977	55,072	836	684	0	0
Colorado	53,996	58,300	-7.4%	43,907	48,120	9,930	10,034	0	0	159	NM
Idaho	14,194	13,857	2.4%	8,308	8,722	5,123	4,617	258	0	NM	518
Montana	2,848	4,345	-34.0%	2,413	3,929	415	NM	0	0	20	0
Nevada	110,911	123,351	-10.0%	100,371	112,736	8,897	8,806	339	383	1,304	1,426
New Mexico	44,928	47,954	-6.3%	29,066	31,453	15,158	15,786	693	708	11	NM
Utah	26,425	38,832	-32.0%	22,004	35,050	1,096	949	496	493	2,829	2,339
Wyoming	3,040	3,208	-5.2%	846	1,074	11	NM	0	0	NM	2,130
Pacific Contiguous	408,748	475,366	-14.0%	161,598	178,531	200,926	251,092	9,201	8,313	37,023	37,430
California	325,252	379,860	-14.0%	116,531	130,653	163,514	204,469	8,858	7,901	36,349	36,837
Oregon	40,292	51,784	-22.0%	20,407	22,326	19,308	28,836	NM	NM	NM	265
Washington	43,204	43,723	-1.2%	24,660	25,552	18,104	17,787	44	56	NM	328
Pacific Noncontiguous	9,610	13,424	-28.0%	9,089	12,835	0	0	25	NM	496	NM
Alaska	9,610	13,424	-28.0%	9,089	12,835	0	0	25	NM	496	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,304,352	6,074,982	-13.0%	2,624,888	2,975,044	2,272,487	2,689,558	39,567	39,940	367,410	370,440

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	897	1,078	-17.0%	0	0	835	1,004	62	74	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	310	372	-17.0%	0	0	310	372	0	0	0	0
New Hampshire	112	179	-38.0%	0	0	NM	NM	62	74	0	0
Rhode Island	374	362	3.3%	0	0	374	362	0	0	0	0
Vermont	0	NM	NM	0	0	0	NM	0	0	0	0
Middle Atlantic	4,422	5,036	-12.0%	0	0	4,191	4,834	NM	NM	119	144
New Jersey	766	854	-10.0%	0	0	734	825	NM	NM	0	0
New York	1,209	1,552	-22.0%	0	0	1,209	1,552	0	0	0	0
Pennsylvania	2,447	2,630	-7.0%	0	0	2,249	2,457	NM	NM	119	144
East North Central	5,165	6,607	-22.0%	565	778	4,532	5,740	35	NM	NM	68
Illinois	1,039	1,396	-26.0%	31	NM	1,008	1,355	0	0	0	0
Indiana	653	857	-24.0%	521	721	112	NM	0	0	NM	NM
Michigan	1,648	1,997	-17.0%	0	0	1,648	1,997	0	0	0	0
Ohio	929	1,144	-19.0%	0	0	929	1,144	0	0	0	0
Wisconsin	896	1,214	-26.0%	NM	NM	835	1,134	35	NM	12	NM
West North Central	982	1,141	-14.0%	291	307	691	834	0	0	0	0
Iowa	234	286	-18.0%	0	0	234	286	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	301	360	-16.0%	NM	NM	239	286	0	0	0	0
Missouri	NM	190	NM	NM	NM	NM	NM	0	0	0	0
Nebraska	164	156	4.9%	164	156	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,779	4,535	-17.0%	391	420	3,111	3,708	NM	204	NM	203
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	630	594	6.0%	126	101	503	491	0	NM	0	NM
Georgia	382	442	-14.0%	0	0	372	399	0	0	10	NM
Maryland	NM	225	NM	0	0	NM	NM	NM	70	0	0
North Carolina	826	1,108	-25.0%	0	0	793	1,000	NM	108	0	0
South Carolina	426	494	-14.0%	261	312	NM	NM	0	0	NM	146
Virginia	1,194	1,510	-21.0%	4	NM	1,167	1,477	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	384	520	-26.0%	NM	205	265	315	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	NM	220	NM	NM	205	15	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	1,250	1,790	-30.0%	0	0	1,220	1,731	30	NM	0	0
Arkansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	NM	NM	0	0	0	NM	0	0	0	0
Texas	1,106	1,586	-30.0%	0	0	1,076	1,528	30	NM	0	0
Mountain	429	529	-19.0%	NM	NM	378	453	31	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	19	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	172	NM	0	0	NM	NM	12	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,628	5,680	-19.0%	402	658	3,046	3,670	1,180	1,353	0	0
California	3,784	4,641	-18.0%	NM	174	2,634	3,157	1,142	1,310	0	0
Oregon	476	569	-16.0%	NM	NM	328	391	NM	NM	0	0
Washington	368	471	-22.0%	284	348	NM	NM	0	0	0	0
Pacific Noncontiguous	72	99	-27.0%	0	0	0	0	72	99	0	0
Alaska	72	99	-27.0%	0	0	0	0	72	99	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	22,008	27,016	-19.0%	1,789	2,395	18,270	22,290	1,633	1,916	317	415

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	6,180	7,375	-16.0%	0	0	5,842	6,905	338	470	0	0
Connecticut	NM	304	NM	0	0	NM	304	0	0	0	0
Maine	NM	540	NM	0	0	NM	540	0	0	0	0
Massachusetts	2,182	2,583	-16.0%	0	0	2,182	2,583	0	0	0	0
New Hampshire	698	1,187	-41.0%	0	0	NM	717	338	470	0	0
Rhode Island	2,400	2,456	-2.3%	0	0	2,400	2,456	0	0	0	0
Vermont	184	306	-40.0%	0	0	184	306	0	0	0	0
Middle Atlantic	30,662	35,776	-14.0%	0	0	29,080	34,120	NM	680	1,049	976
New Jersey	5,050	6,000	-16.0%	0	0	4,854	5,742	NM	258	0	0
New York	8,834	10,785	-18.0%	0	0	8,834	10,785	0	0	0	0
Pennsylvania	16,778	18,992	-12.0%	0	0	15,391	17,594	NM	422	1,049	976
East North Central	37,371	45,890	-19.0%	4,204	5,406	32,420	39,815	250	179	NM	490
Illinois	7,615	9,698	-21.0%	249	284	7,366	9,414	0	0	0	0
Indiana	4,711	5,971	-21.0%	3,852	4,997	673	762	0	0	NM	212
Michigan	12,003	13,871	-13.0%	0	0	12,003	13,871	0	0	0	0
Ohio	6,393	7,918	-19.0%	0	0	6,393	7,918	0	0	0	0
Wisconsin	6,649	8,431	-21.0%	NM	NM	5,986	7,850	250	179	310	278
West North Central	6,092	7,979	-24.0%	2,050	2,212	4,042	5,767	0	0	0	0
Iowa	843	1,974	-57.0%	0	0	843	1,974	0	0	0	0
Kansas	NM	1,031	NM	0	0	NM	1,031	0	0	0	0
Minnesota	2,135	2,518	-15.0%	NM	537	1,669	1,981	0	0	0	0
Missouri	NM	1,363	NM	NM	582	NM	781	0	0	0	0
Nebraska	1,073	1,093	-1.8%	1,073	1,093	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	26,412	32,290	-18.0%	2,885	3,247	21,278	25,670	NM	1,724	NM	1,648
Delaware	NM	1,084	NM	0	0	NM	951	0	0	NM	134
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,189	4,315	-2.9%	977	1,003	3,211	3,289	0	NM	0	NM
Georgia	2,622	3,108	-16.0%	0	0	2,430	2,758	0	0	192	350
Maryland	NM	1,610	NM	0	0	NM	1,096	NM	514	0	0
North Carolina	5,887	7,932	-26.0%	0	0	5,457	6,931	NM	1,001	0	0
South Carolina	3,020	3,593	-16.0%	1,865	2,192	NM	254	0	0	NM	1,147
Virginia	8,405	10,557	-20.0%	43	NM	8,207	10,302	NM	204	0	0
West Virginia	23	NM	NM	0	0	23	NM	0	0	0	0
East South Central	2,779	3,609	-23.0%	NM	1,421	1,854	2,188	0	0	0	0
Alabama	NM	718	NM	0	0	NM	718	0	0	0	0
Kentucky	NM	1,529	NM	NM	1,421	99	NM	0	0	0	0
Mississippi	NM	175	NM	0	0	NM	175	0	0	0	0
Tennessee	NM	1,186	NM	0	0	NM	1,186	0	0	0	0
West South Central	9,207	12,495	-26.0%	0	0	8,902	11,980	305	515	0	0
Arkansas	NM	1,189	NM	0	0	NM	1,189	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	52	214	-76.0%	0	0	52	214	0	0	0	0
Texas	8,156	11,091	-26.0%	0	0	7,851	10,576	305	515	0	0
Mountain	3,148	3,712	-15.0%	NM	193	2,734	3,129	270	390	0	0
Arizona	NM	685	NM	0	0	NM	685	0	0	0	0
Colorado	NM	769	NM	0	0	NM	769	0	0	0	0
Idaho	NM	649	NM	NM	193	NM	314	108	142	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	395	NM	0	0	NM	395	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	1,214	NM	0	0	NM	965	162	248	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	33,033	40,512	-18.0%	3,878	5,010	21,130	25,378	8,025	10,124	0	0
California	27,356	33,285	-18.0%	NM	1,666	18,433	21,828	7,775	9,791	0	0
Oregon	3,088	3,972	-22.0%	NM	940	2,111	2,699	NM	333	0	0
Washington	2,589	3,255	-20.0%	2,003	2,404	NM	852	0	0	0	0
Pacific Noncontiguous	418	891	-53.0%	0	0	0	0	418	891	0	0
Alaska	418	891	-53.0%	0	0	0	0	418	891	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	155,303	190,529	-18.0%	14,087	17,489	127,282	154,952	11,152	14,973	2,782	3,115

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	305	306	-0.4%	0	0	287	290	18	17	0	0
Connecticut	102	107	-5.0%	0	0	102	107	0	0	0	0
Maine	28	24	13.0%	0	0	10	NM	18	17	0	0
Massachusetts	165	165	-0.5%	0	0	165	165	0	0	0	0
New Hampshire	11	9	19.0%	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	486	441	10.0%	0	0	388	352	98	89	0	0
New Jersey	130	114	14.0%	0	0	100	84	31	30	0	0
New York	184	163	13.0%	0	0	137	126	46	37	0	0
Pennsylvania	172	164	4.9%	0	0	151	142	21	22	0	0
East North Central	22	23	-2.5%	3	3	0	0	19	20	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	49.0%	0	0	0	0	1	1	0	0
Michigan	18	19	-4.2%	0	0	0	0	18	19	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-4.6%	3	3	0	0	0	0	0	0
West North Central	59	52	14.0%	38	34	21	16	NM	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	59	52	14.0%	38	34	21	16	NM	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	447	482	-7.4%	0	0	411	448	36	34	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	341	329	3.6%	0	0	341	329	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	70	74	-5.4%	0	0	70	74	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	36	79	-55.0%	0	0	0	46	36	34	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	102.0%	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	102.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	65	57	14.0%	0	0	65	57	0	0	0	0
California	41	37	9.2%	0	0	41	37	0	0	0	0
Oregon	9	NM	NM	0	0	9	NM	0	0	0	0
Washington	15	12	31.0%	0	0	15	12	0	0	0	0
Pacific Noncontiguous	36	42	-14.0%	0	0	0	0	36	42	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	36	42	-14.0%	0	0	0	0	36	42	0	0
U.S. Total	1,421	1,404	1.2%	41	37	1,171	1,163	208	203	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.
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 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through July 2017 and July 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	2,144	2,080	3.1%	0	0	2,025	1,968	120	112	0	0
Connecticut	734	738	-0.5%	0	0	734	738	0	0	0	0
Maine	186	165	13.0%	0	0	67	53	120	112	0	0
Massachusetts	1,150	1,115	3.2%	0	0	1,150	1,115	0	0	0	0
New Hampshire	73	63	16.0%	0	0	73	63	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,146	2,939	7.0%	0	0	2,496	2,335	650	604	0	0
New Jersey	832	771	7.9%	0	0	628	569	204	201	0	0
New York	1,169	1,075	8.8%	0	0	870	822	300	253	0	0
Pennsylvania	1,144	1,094	4.6%	0	0	998	944	146	149	0	0
East North Central	147	144	1.6%	22	22	0	0	125	122	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	7	5	43.0%	0	0	0	0	7	5	0	0
Michigan	118	117	0.7%	0	0	0	0	118	117	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	22	22	-2.8%	22	22	0	0	0	0	0	0
West North Central	369	361	2.2%	217	242	141	107	NM	13	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	369	361	2.2%	217	242	141	107	NM	13	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,050	3,233	-5.7%	0	0	2,818	3,012	233	222	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	2,298	2,208	4.1%	0	0	2,298	2,208	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	454	478	-4.9%	0	0	454	477	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	299	548	-45.0%	0	0	66	326	233	221	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	3	5	-39.0%	0	0	0	0	0	0	3	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	3	5	-39.0%	0	0	0	0	0	0	3	5
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	1	-61.0%	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	-61.0%	0	0	0	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	442	356	24.0%	0	0	442	356	0	0	0	0
California	288	225	28.0%	0	0	288	225	0	0	0	0
Oregon	62	52	19.0%	0	0	62	52	0	0	0	0
Washington	92	78	17.0%	0	0	92	78	0	0	0	0
Pacific Noncontiguous	240	245	-2.0%	0	0	0	0	240	245	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	240	245	-2.0%	0	0	0	0	240	245	0	0
U.S. Total	9,541	9,366	1.9%	239	264	7,921	7,780	1,378	1,317	3	5

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	5,528	5,256	5.2%	935	834	4,016	3,939	3	NM	574	482
Connecticut	199	385	-48.0%	0	0	199	385	0	0	0	0
Maine	2,357	2,073	14.0%	0	0	1,782	1,591	0	0	574	482
Massachusetts	205	NM	NM	0	0	205	NM	0	0	0	0
New Hampshire	2,091	2,056	1.7%	460	453	1,631	1,603	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	677	564	20.0%	476	381	199	NM	3	NM	0	0
Middle Atlantic	1,217	1,170	4.0%	0	0	728	662	0	0	489	508
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	824	763	8.0%	0	0	728	662	0	0	96	102
Pennsylvania	393	407	-3.5%	0	0	0	0	0	0	392	407
East North Central	2,029	2,738	-26.0%	233	562	805	1,200	0	0	992	976
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,363	1,733	-21.0%	0	0	753	1,142	0	0	610	592
Ohio	182	193	-6.0%	0	0	52	NM	0	0	130	135
Wisconsin	484	811	-40.0%	233	562	0	0	0	0	251	249
West North Central	1,105	1,085	1.9%	148	200	635	579	53	50	268	256
Iowa	0	0	72.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,059	1,038	2.0%	148	200	635	579	7	3	268	256
Missouri	46	47	-1.8%	0	0	0	0	46	47	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,583	10,834	-2.3%	1,433	2,054	3,636	3,069	0	NM	5,513	5,693
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	1,529	1,337	14.0%	0	0	720	597	0	0	809	740
Georgia	3,095	2,764	12.0%	0	0	1,046	659	0	0	2,049	2,105
Maryland	86	76	13.0%	0	0	0	0	0	NM	86	58
North Carolina	1,377	1,426	-3.4%	0	0	927	836	0	0	450	589
South Carolina	2,488	2,406	3.4%	334	331	689	554	0	0	1,466	1,521
Virginia	2,008	2,826	-29.0%	1,100	1,723	254	423	0	0	654	680
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,213	3,329	-3.5%	0	0	208	199	0	0	3,005	3,130
Alabama	1,914	2,017	-5.1%	0	0	208	199	0	0	1,706	1,818
Kentucky	142	148	-4.5%	0	0	0	0	0	0	142	148
Mississippi	748	733	2.0%	0	0	0	0	0	0	748	733
Tennessee	408	430	-5.0%	0	0	0	0	0	0	408	430
West South Central	3,173	3,283	-3.3%	0	154	0	122	0	0	3,173	3,007
Arkansas	678	599	13.0%	0	0	0	0	0	0	678	599
Louisiana	1,732	1,661	4.3%	0	0	0	0	0	0	1,732	1,661
Oklahoma	109	106	2.4%	0	0	0	0	0	0	109	106
Texas	654	917	-29.0%	0	154	0	122	0	0	654	642
Mountain	941	640	47.0%	0	0	534	406	0	0	408	234
Arizona	333	325	2.3%	0	0	333	325	0	0	0	0
Colorado	122	1	NM	0	0	122	1	0	0	0	0
Idaho	440	268	64.0%	0	0	79	80	0	0	361	188
Montana	47	NM	NM	0	0	0	0	0	0	47	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,404	6,109	4.8%	425	482	4,133	3,924	0	0	1,846	1,703
California	4,310	3,969	8.6%	0	0	3,914	3,682	0	0	397	288
Oregon	560	561	-0.1%	0	0	219	242	0	0	341	318
Washington	1,533	1,579	-2.9%	425	482	0	0	0	0	1,108	1,097
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	34,193	34,444	-0.7%	3,175	4,286	14,694	14,099	56	70	16,267	15,990

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	33,082	36,331	-8.9%	5,033	5,480	24,102	27,277	52	16	3,895	3,558
Connecticut	1,490	2,623	-43.0%	0	0	1,490	2,623	0	0	0	0
Maine	14,593	15,338	-4.9%	0	0	10,664	11,775	35	NM	3,895	3,558
Massachusetts	1,131	1,132	-0.1%	0	0	1,131	1,132	0	0	0	0
New Hampshire	12,463	13,337	-6.5%	2,792	2,746	9,671	10,591	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,404	3,901	-13.0%	2,242	2,734	1,146	1,156	16	11	0	0
Middle Atlantic	7,849	7,408	5.9%	0	0	4,617	4,173	0	0	3,232	3,236
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,284	4,860	8.7%	0	0	4,615	4,169	0	0	668	690
Pennsylvania	2,565	2,549	0.6%	0	0	1	NM	0	0	2,564	2,545
East North Central	15,478	16,942	-8.6%	2,860	3,328	6,376	7,057	0	0	6,242	6,556
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	9,719	10,668	-8.9%	0	NM	6,001	6,670	0	0	3,718	3,997
Ohio	1,226	1,299	-5.6%	0	0	375	387	0	0	851	912
Wisconsin	4,533	4,975	-8.9%	2,860	3,328	0	0	0	0	1,673	1,647
West North Central	7,133	6,643	7.4%	1,154	1,217	3,730	3,716	289	221	1,959	1,488
Iowa	2	NM	NM	0	0	0	0	2	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	6,867	6,438	6.7%	1,154	1,217	3,730	3,716	24	17	1,959	1,488
Missouri	264	202	31.0%	0	0	0	0	264	202	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	70,169	67,580	3.8%	12,222	12,489	21,567	18,234	44	120	36,336	36,736
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	11,373	8,607	32.0%	0	0	6,017	3,520	0	0	5,356	5,087
Georgia	17,763	17,583	1.0%	0	0	4,408	4,297	0	0	13,355	13,286
Maryland	450	501	-10.0%	0	0	0	0	44	120	406	381
North Carolina	8,808	8,985	-2.0%	0	0	5,644	5,168	0	0	3,164	3,816
South Carolina	15,837	15,529	2.0%	2,375	2,207	3,674	3,593	0	0	9,788	9,729
Virginia	15,939	16,375	-2.7%	9,847	10,283	1,824	1,656	0	0	4,268	4,437
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	21,089	21,980	-4.1%	0	0	1,331	1,331	0	0	19,759	20,649
Alabama	12,640	13,324	-5.1%	0	0	1,331	1,331	0	0	11,309	11,993
Kentucky	931	1,020	-8.7%	0	0	0	0	0	0	931	1,020
Mississippi	4,832	4,861	-0.6%	0	0	0	0	0	0	4,832	4,861
Tennessee	2,686	2,775	-3.2%	0	0	0	0	0	0	2,686	2,775
West South Central	21,607	21,768	-0.7%	0	245	827	765	0	0	20,780	20,758
Arkansas	4,539	4,232	7.2%	0	0	0	0	0	0	4,539	4,232
Louisiana	11,451	11,679	-2.0%	0	0	0	0	0	0	11,451	11,679
Oklahoma	578	697	-17.0%	0	0	0	0	0	0	578	697
Texas	5,039	5,159	-2.3%	0	245	827	765	0	0	4,212	4,149
Mountain	5,679	5,385	5.5%	0	0	2,938	2,395	0	0	2,741	2,989
Arizona	1,774	1,923	-7.7%	0	0	1,774	1,923	0	0	0	0
Colorado	776	NM	NM	0	0	776	NM	0	0	0	0
Idaho	2,804	3,125	-10.0%	0	0	389	451	0	0	2,415	2,674
Montana	325	316	3.0%	0	0	0	0	0	0	325	316
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	40,628	38,458	5.6%	2,523	2,635	26,089	24,723	0	0	12,016	11,099
California	27,267	25,106	8.6%	0	0	24,563	23,203	0	0	2,704	1,903
Oregon	3,834	3,745	2.4%	0	0	1,526	1,520	0	0	2,308	2,225
Washington	9,527	9,607	-0.8%	2,523	2,635	0	0	0	0	7,004	6,972
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	222,714	222,494	0.1%	23,793	25,395	91,578	89,672	385	357	106,959	107,070

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 - July 2017

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2015, End of Month Stocks									
January	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
Year 2016, End of Month Stocks									
January	187,486	32,397	1,320	146,459	20,980	1,089	41,026	11,416	231
February	187,575	31,637	1,323	146,224	20,670	1,064	41,351	10,967	259
March	192,269	31,579	1,240	149,113	20,697	974	43,156	10,883	266
April	193,991	31,695	1,181	151,329	20,909	901	42,662	10,786	280
May	193,432	31,925	1,071	151,237	21,114	826	42,195	10,810	246
June	183,248	31,687	905	144,987	20,967	689	38,261	10,720	216
July	169,465	31,190	858	135,110	20,652	678	34,354	10,537	180
August	160,452	34,823	780	129,111	20,402	589	31,341	14,421	190
Sept	158,238	34,768	768	128,419	20,378	566	29,820	14,389	201
October	162,739	34,723	812	132,438	20,268	606	30,301	14,455	207
November	172,208	30,982	833	139,080	20,501	606	33,128	10,480	227
December	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2017, End of Month Stocks									
January	157,359	31,030	827	125,648	20,373	584	31,711	10,657	243
February	161,985	30,549	859	128,557	20,096	606	33,428	10,453	253
March	163,900	29,449	882	129,324	20,105	621	34,577	9,344	261
April	166,236	29,170	952	131,184	19,969	685	35,053	9,201	268
May	164,924	28,780	892	130,139	19,556	625	34,785	9,224	267
June	160,540	28,446	869	127,461	19,474	597	33,079	8,972	272
July	148,084	28,394	866	118,572	19,481	608	29,512	8,913	258

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, July 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	July 2017	July 2016	Percentage Change	July 2017	July 2016	Percentage Change	July 2017	July 2016	Percentage Change
New England	W	1,803	W	3,677	4,615	-20.3%	0	0	--
Connecticut	W	W	W	1,223	1,624	-24.7%	0	0	--
Maine	0	0	--	413	511	-19.2%	0	0	--
Massachusetts	W	W	W	1,518	1,895	-19.9%	0	0	--
New Hampshire	W	W	W	343	383	-10.5%	0	0	--
Rhode Island	W	W	W	147	151	-2.2%	0	0	--
Vermont	0	0	--	34	51	-33.8%	0	0	--
Middle Atlantic	4,139	5,478	-24.4%	4,737	5,450	-13.1%	0	0	--
New Jersey	125	781	-84.0%	481	703	-31.6%	0	0	--
New York	W	W	W	3,248	3,417	-4.9%	0	0	--
Pennsylvania	W	W	W	1,009	1,330	-24.1%	0	0	--
East North Central	30,742	38,295	-19.7%	799	1,061	-24.7%	369	211	74.9%
Illinois	6,980	8,446	-17.4%	52	79	-33.7%	0	0	--
Indiana	8,875	10,589	-16.2%	92	104	-11.5%	W	0	W
Michigan	4,576	5,598	-18.3%	284	303	-6.2%	W	W	W
Ohio	6,221	9,420	-34.0%	235	347	-32.3%	W	W	W
Wisconsin	4,089	4,242	-3.6%	136	229	-40.6%	W	W	W
West North Central	27,701	30,252	-8.4%	650	1,006	-35.4%	0	0	--
Iowa	6,784	7,868	-13.8%	76	140	-45.3%	0	0	--
Kansas	3,891	4,400	-11.6%	113	132	-14.6%	0	0	--
Minnesota	3,672	3,809	-3.6%	78	135	-42.3%	0	0	--
Missouri	7,989	8,813	-9.4%	263	394	-33.4%	0	0	--
Nebraska	3,468	3,346	3.6%	55	103	-46.6%	0	0	--
North Dakota	W	W	W	34	44	-23.2%	0	0	--
South Dakota	W	W	W	31	58	-46.8%	0	0	--
South Atlantic	25,419	28,884	-12.0%	12,136	12,000	1.1%	W	W	W
Delaware	W	W	W	278	452	-38.6%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,398	5,296	-17.0%	5,621	5,155	9.0%	86	128	-33.1%
Georgia	5,075	5,063	0.2%	796	818	-2.7%	0	0	--
Maryland	1,643	1,128	45.7%	835	852	-2.0%	0	0	--
North Carolina	4,740	5,669	-16.4%	1,227	1,232	-0.4%	0	0	--
South Carolina	4,335	5,682	-23.7%	674	713	-5.5%	0	0	--
Virginia	W	1,057	W	2,573	2,633	-2.3%	0	0	--
West Virginia	3,866	W	W	133	144	-7.5%	W	W	W
East South Central	15,245	15,494	-1.6%	1,904	1,897	0.4%	W	W	W
Alabama	2,996	4,299	-30.3%	332	340	-2.3%	0	0	--
Kentucky	7,824	7,214	8.5%	238	241	-1.2%	W	W	W
Mississippi	1,213	1,049	15.7%	571	575	-0.6%	0	0	--
Tennessee	3,211	2,933	9.5%	763	742	2.8%	0	0	--
West South Central	21,827	26,832	-18.7%	1,745	1,852	-5.8%	W	W	W
Arkansas	2,654	5,110	-48.1%	185	175	5.5%	0	0	--
Louisiana	2,424	2,844	-14.8%	383	430	-10.9%	W	W	W
Oklahoma	3,753	5,664	-33.7%	99	96	2.8%	0	0	--
Texas	12,995	13,214	-1.7%	1,078	1,151	-6.3%	0	0	--
Mountain	20,186	20,517	-1.6%	354	392	-9.6%	W	W	W
Arizona	3,287	3,864	-14.9%	121	131	-7.8%	0	0	--
Colorado	3,898	4,996	-22.0%	117	121	-3.1%	0	0	--
Idaho	0	0	--	0	0	-12.0%	0	0	--
Montana	W	W	W	16	16	0.3%	W	W	W
Nevada	W	W	W	6	14	-58.8%	0	0	--
New Mexico	W	W	W	NM	41	NM	0	0	--
Utah	5,583	5,056	10.4%	33	43	-23.4%	0	0	--
Wyoming	4,826	3,755	28.5%	34	26	27.9%	0	0	--
Pacific Contiguous	W	W	W	355	502	-29.3%	0	0	--
California	0	0	--	167	166	0.9%	0	0	--
Oregon	W	W	W	44	76	-42.6%	0	0	--
Washington	W	W	W	144	260	-44.6%	0	0	--
Pacific Noncontiguous	W	W	W	2,036	2,414	-15.6%	0	0	--
Alaska	0	W	W	37	196	-81.2%	0	0	--
Hawaii	W	W	W	2,000	2,218	-9.8%	0	0	--
U.S. Total	148,084	169,465	-12.6%	28,394	31,190	-9.0%	866	858	0.9%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**July 2017**	**July 2016**	**Percentage Change**	**July 2017**	**July 2016**	**July 2017**	**July 2016**
Coal (Thousand Tons)							
New England	W	1,803	W	W	W	W	W
Middle Atlantic	4,139	5,478	-24.4%	0	0	4,139	5,478
East North Central	30,742	38,295	-19.7%	W	23,675	W	14,620
West North Central	27,701	30,252	-8.4%	27,701	30,252	0	0
South Atlantic	25,419	28,884	-12.0%	22,818	26,773	2,602	2,111
East South Central	15,245	15,494	-1.6%	15,245	15,494	0	0
West South Central	21,827	26,832	-18.7%	13,409	17,790	8,417	9,042
Mountain	20,186	20,517	-1.6%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**148,084**	**169,465**	**-12.6%**	**118,572**	**135,110**	**29,512**	**34,354**
Petroleum Liquids (Thousand Barrels)							
New England	3,677	4,615	-20.3%	602	701	3,075	3,914
Middle Atlantic	4,737	5,450	-13.1%	1,967	2,159	2,770	3,291
East North Central	799	1,061	-24.7%	583	762	216	299
West North Central	650	1,006	-35.4%	629	983	20	23
South Atlantic	12,136	12,000	1.1%	9,949	9,703	2,187	2,297
East South Central	1,904	1,897	0.4%	1,831	1,824	73	73
West South Central	1,745	1,852	-5.8%	1,336	1,370	409	483
Mountain	354	392	-9.6%	322	363	32	29
Pacific Contiguous	355	502	-29.3%	248	402	NM	100
Pacific Noncontiguous	2,036	2,414	-15.6%	2,014	2,384	23	30
U.S. Total	**28,394**	**31,190**	**-9.0%**	**19,481**	**20,652**	**8,913**	**10,537**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	369	211	74.9%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	86	128	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	**866**	**858**	**0.9%**	**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 - July 2017

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	68,537	91,037	4,371	163,946
Year 2015, End of Month Stocks				
January	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
Year 2016, End of Month Stocks				
January	77,097	105,748	4,640	187,486
February	76,703	106,336	4,536	187,575
March	80,108	107,364	4,797	192,269
April	81,927	106,996	5,068	193,991
May	82,822	105,444	5,166	193,432
June	78,959	99,244	5,046	183,248
July	72,162	92,580	4,723	169,465
August	68,469	87,596	4,386	160,452
Sept	67,066	87,009	4,163	158,238
October	68,439	90,327	3,974	162,739
November	71,824	96,101	4,283	172,208
December	68,537	91,037	4,371	163,946
Year 2017, End of Month Stocks				
January	66,155	86,869	4,335	157,359
February	68,479	89,083	4,424	161,985
March	68,990	90,259	4,651	163,900
April	69,608	91,622	5,005	166,236
May	69,755	89,965	5,204	164,924
June	68,142	87,697	4,701	160,540
July	62,068	81,735	4,281	148,084

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 - July 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,332,849	638,564	2.12	40.87	1.35	92.2	100,602	16,610	9.36	56.72	0.48	69.9
Year 2015												
January	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
Year 2016												
January	1,019,963	53,356	2.12	40.60	1.33	84.0	8,974	1,499	7.92	47.44	0.46	58.3
February	965,792	49,873	2.11	40.90	1.40	96.0	7,927	1,307	6.98	42.32	0.46	56.0
March	884,181	44,893	2.18	42.88	1.46	108.9	6,862	1,132	6.90	41.82	0.44	73.1
April	793,417	40,144	2.16	42.69	1.46	100.3	8,529	1,404	8.35	50.75	0.41	93.7
May	859,334	43,883	2.16	42.39	1.45	95.0	9,129	1,520	9.79	58.87	0.44	85.7
June	1,008,277	52,327	2.10	40.47	1.35	81.1	7,517	1,247	10.38	62.59	0.49	70.3
July	1,138,678	59,400	2.11	40.53	1.28	78.8	8,993	1,460	11.82	72.81	0.51	59.8
August	1,235,488	63,867	2.11	40.85	1.32	85.1	9,033	1,479	9.44	57.64	0.51	60.9
Sept	1,140,035	59,344	2.12	40.79	1.30	93.5	8,092	1,332	9.40	57.12	0.50	77.5
October	1,125,959	58,765	2.08	39.77	1.28	105.6	8,262	1,370	9.98	60.24	0.53	76.2
November	1,082,191	56,397	2.09	40.03	1.29	114.7	9,437	1,552	10.07	61.25	0.49	89.0
December	1,079,534	56,315	2.08	39.85	1.32	85.2	7,849	1,308	W	W	0.46	61.6
Year 2017												
January	1,081,835	56,573	2.09	40.05	1.26	87.3	9,304	1,546	11.91	71.72	0.46	69.3
February	997,021	52,062	2.07	39.58	1.30	105.8	6,122	1,015	11.61	70.06	0.49	58.6
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.3
April	893,611	46,168	2.11	40.85	1.34	101.5	6,223	1,033	11.59	69.85	0.48	61.3
May	948,234	49,206	2.13	41.01	1.33	94.4	6,481	1,081	W	W	0.48	56.5
June	1,031,599	53,462	2.11	40.72	1.31	88.8	7,209	1,196	W	W	0.47	63.6
July	1,084,862	56,876	2.09	39.82	1.22	79.9	6,461	1,081	W	W	0.48	52.9
Year to Date												
2015	8,748,581	453,083	2.25	43.51	1.30	98.9	86,929	14,354	12.80	77.62	0.50	63.2
2016	6,669,642	343,877	2.13	41.38	1.38	89.8	57,930	9,570	8.96	54.24	0.46	68.6
2017	7,004,160	364,520	2.10	40.29	1.30	92.7	53,790	8,970	11.45	68.64	0.49	67.4
Rolling 12 Months Ending in July												
2016	13,007,269	673,722	2.16	41.67	1.33	98.9	118,649	19,536	9.29	56.45	0.46	83.9
2017	12,667,367	659,207	2.10	40.28	1.30	93.8	96,462	16,010	W	W	0.49	69.3

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

Notes:
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 - July 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,935	4,166	1.65	46.23	5.40	78.7	10,605,977	10,258,688	2.88	2.97	90.3	2.47
Year 2015												
January	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	81.2	821,744	793,971	3.01	3.12	89.4	2.52
February	11,272	408	1.30	35.80	5.53	98.1	734,227	709,538	2.70	2.79	89.2	2.37
March	10,312	363	1.41	40.14	5.33	76.5	796,031	770,399	2.23	2.31	90.1	2.22
April	10,307	369	1.35	37.75	5.56	80.0	773,827	749,028	2.42	2.50	90.2	2.31
May	8,554	307	1.32	36.76	5.35	69.0	856,800	830,090	2.40	2.47	90.5	2.31
June	6,894	240	1.41	40.48	4.67	52.1	1,019,040	987,371	2.67	2.76	91.0	2.40
July	10,031	355	1.47	41.45	5.14	72.8	1,186,484	1,148,584	2.97	3.07	91.1	2.56
August	11,032	398	1.75	48.48	5.42	78.7	1,204,258	1,162,373	2.96	3.06	91.2	2.53
Sept	10,740	381	2.04	57.51	5.17	85.0	967,740	934,760	3.08	3.19	90.9	2.56
October	8,843	317	1.98	55.43	5.69	88.3	793,786	768,090	3.13	3.24	90.1	2.51
November	9,364	333	2.26	63.60	5.69	87.4	721,768	698,431	3.02	3.12	89.8	2.47
December	9,944	355	2.07	57.94	5.43	82.0	730,273	706,054	3.96	4.10	89.4	W
Year 2017												
January	7,058	251	2.14	60.16	5.67	57.6	607,841	587,377	4.12	4.27	76.9	2.83
February	7,593	271	2.00	56.03	5.85	81.5	534,117	516,936	3.58	3.69	78.0	2.60
March	8,628	309	2.06	57.51	5.29	85.2	616,865	597,210	3.36	3.47	76.1	2.62
April	5,835	208	2.00	55.96	5.34	90.9	576,207	557,625	3.37	3.49	76.9	2.61
May	6,776	242	2.05	57.46	5.57	60.0	645,937	625,781	3.49	3.60	77.3	W
June	8,657	308	W	W	5.55	70.2	762,367	737,860	3.31	3.41	77.9	W
July	8,498	302	W	W	5.50	71.9	928,737	897,826	3.22	3.33	76.7	W
Year to Date												
2015	79,585	2,812	1.94	54.78	5.21	89.9	5,726,973	5,541,748	3.50	3.61	90.0	2.77
2016	67,011	2,383	1.37	38.65	5.35	75.3	6,188,152	5,988,980	2.65	2.74	90.3	2.39
2017	53,046	1,891	W	W	5.54	72.1	4,672,072	4,520,615	3.47	3.58	77.1	W
Rolling 12 Months Ending in July												
2016	126,094	4,467	1.53	43.24	5.33	85.5	10,634,681	10,289,813	2.75	2.84	90.1	2.44
2017	102,970	3,674	W	W	5.50	77.4	9,089,896	8,790,323	3.33	3.45	83.0	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 - July 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,200,962	472,909	2.16	42.09	1.22	94.7	73,050	11,943	9.16	56.02	0.45	76.1
Year 2015												
January	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
Year 2016												
January	746,616	38,805	2.17	41.79	1.18	85.0	6,186	1,021	7.88	47.73	0.44	60.6
February	717,946	36,885	2.16	42.04	1.23	97.7	5,810	954	6.92	42.15	0.41	67.6
March	681,849	34,396	2.20	43.57	1.34	110.4	5,220	851	6.69	41.06	0.40	81.4
April	606,778	30,610	2.19	43.51	1.31	106.5	6,895	1,125	8.35	51.19	0.37	110.7
May	651,230	33,180	2.17	42.66	1.26	97.8	6,738	1,114	9.12	55.15	0.40	94.9
June	771,022	39,635	2.15	41.85	1.24	85.3	5,508	908	10.51	63.79	0.44	72.9
July	843,774	43,673	2.18	42.06	1.15	80.5	7,114	1,142	11.54	71.92	0.52	68.1
August	919,918	47,289	2.17	42.27	1.19	87.5	6,733	1,089	9.15	56.56	0.51	66.8
Sept	846,033	43,523	2.18	42.41	1.18	96.8	5,507	895	9.03	55.59	0.49	80.4
October	837,987	43,418	2.13	41.05	1.17	109.7	5,174	845	9.75	59.67	0.52	74.1
November	801,020	41,349	2.13	41.33	1.21	116.9	6,602	1,075	9.79	60.10	0.48	89.7
December	776,790	40,148	2.13	41.24	1.21	84.8	5,562	924	10.73	64.58	0.44	68.4
Year 2017												
January	783,283	40,654	2.14	41.32	1.15	86.5	6,498	1,069	11.09	67.38	0.44	71.5
February	732,713	38,088	2.11	40.63	1.20	106.1	4,563	754	11.53	69.80	0.46	63.7
March	702,185	36,293	2.13	41.15	1.21	100.7	10,468	1,759	11.58	68.94	0.53	131.1
April	646,292	33,094	2.15	41.91	1.22	103.9	4,679	774	11.38	68.84	0.46	63.8
May	698,108	35,802	2.16	42.16	1.22	94.8	4,608	763	11.38	68.72	0.45	58.4
June	780,770	40,045	2.13	41.61	1.20	90.6	5,560	915	10.86	66.00	0.47	71.1
July	816,276	42,290	2.12	40.87	1.11	80.6	4,627	769	10.90	65.59	0.45	61.6
Year to Date												
2015	6,438,906	331,563	2.27	44.13	1.18	101.4	55,358	9,080	12.44	75.87	0.47	74.1
2016	5,019,215	257,184	2.17	42.44	1.24	92.5	43,472	7,114	8.81	53.82	0.43	76.9
2017	5,159,627	266,264	2.13	41.36	1.19	93.3	41,003	6,803	11.28	67.98	0.48	74.9
Rolling 12 Months Ending in July												
2016	9,668,939	497,328	2.20	42.77	1.20	101.2	78,155	12,781	9.13	55.82	0.43	81.8
2017	9,341,375	481,990	2.14	41.50	1.19	95.1	70,582	11,631	10.60	64.36	0.48	75.0

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.77	5.38	103.1	5,059,987	4,892,902	3.15	3.26	96.8	2.54
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,006	381,192	3.27	3.38	97.3	2.57
February	9,837	356	1.13	31.18	5.53	131.0	355,300	343,232	2.96	3.07	97.0	2.44
March	8,402	294	1.21	34.47	5.28	103.8	382,382	370,058	2.53	2.61	97.3	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,760	356,152	2.72	2.80	97.5	2.42
May	7,842	281	1.22	34.16	5.35	94.9	411,449	398,370	2.68	2.77	97.0	2.40
June	6,325	220	1.33	38.34	4.59	71.4	500,006	484,203	2.88	2.97	96.4	2.47
July	9,587	340	1.43	40.50	5.10	104.6	569,055	550,931	3.20	3.31	95.4	2.63
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	95.7	2.60
Sept	9,059	320	1.96	55.58	5.12	102.8	456,568	440,900	3.43	3.55	96.8	2.64
October	7,088	253	1.87	52.47	5.71	146.9	368,564	356,539	3.54	3.65	96.6	2.58
November	7,871	279	2.22	62.85	5.74	116.3	338,187	326,505	3.37	3.49	98.0	2.54
December	8,017	284	1.99	56.17	5.39	108.8	347,451	335,619	4.15	4.30	97.8	2.79
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,225	278,482	4.34	4.49	84.7	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	86.2	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,742	288,239	3.56	3.67	83.3	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,428	272,355	3.52	3.63	83.8	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,832	313,928	3.71	3.82	84.4	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,281	356,626	3.58	3.69	82.6	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,468	431,599	3.48	3.60	79.1	2.62
Year to Date												
2015	65,786	2,313	1.88	53.51	5.20	122.8	2,665,227	2,579,895	3.75	3.87	96.3	2.75
2016	58,365	2,068	1.23	34.70	5.32	97.9	2,979,957	2,884,139	2.91	3.01	96.7	2.47
2017	52,521	1,872	2.07	58.21	5.54	112.5	2,256,613	2,183,863	3.69	3.81	83.0	2.65
Rolling 12 Months Ending in July												
2016	108,507	3,824	1.41	40.07	5.30	113.9	5,032,478	4,869,284	3.04	3.14	96.3	2.51
2017	93,862	3,342	2.01	56.41	5.51	112.0	4,336,643	4,192,626	3.60	3.72	89.1	2.64

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6
Year 2015												
January	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
Year 2016												
January	258,912	13,908	1.95	36.22	1.73	85.3	2,646	456	7.85	45.72	0.42	67.7
February	235,185	12,416	1.93	36.54	1.93	97.4	1,842	308	6.92	41.44	0.47	43.3
March	187,520	9,832	2.05	39.03	1.91	113.8	1,471	254	7.48	43.40	0.47	68.0
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.1
May	195,458	10,130	2.10	40.44	2.08	91.5	2,306	392	11.84	69.78	0.48	95.5
June	223,442	12,073	1.88	34.83	1.74	71.9	1,819	308	10.07	59.42	0.47	85.8
July	281,765	15,130	1.90	35.31	1.68	76.2	1,819	309	12.97	76.45	0.45	56.4
August	301,966	15,952	1.90	35.92	1.73	80.8	2,242	380	10.26	60.55	0.48	64.2
Sept	283,296	15,336	1.92	35.53	1.66	88.0	2,465	418	10.16	59.95	0.49	91.2
October	275,084	14,756	1.89	35.17	1.63	98.3	2,860	487	10.39	61.10	0.49	110.6
November	270,983	14,587	1.92	35.71	1.54	114.5	2,625	441	10.76	64.02	0.47	115.1
December	291,318	15,642	1.92	35.67	1.61	89.4	2,183	367	W	W	0.50	64.9
Year 2017												
January	283,569	15,216	1.93	36.03	1.54	92.4	2,679	456	13.98	82.08	0.47	89.2
February	249,202	13,269	1.90	35.70	1.59	108.7	1,438	241	W	W	0.50	61.6
March	247,658	13,058	1.93	36.69	1.75	101.6	1,344	231	12.02	69.90	0.44	78.0
April	231,929	12,350	1.97	37.09	1.66	98.2	1,383	233	W	W	0.44	76.3
May	234,471	12,642	1.99	36.90	1.67	95.2	1,718	293	W	W	0.45	69.6
June	235,649	12,697	2.00	37.15	1.68	85.2	1,507	258	W	W	0.42	61.4
July	253,594	13,865	1.97	36.04	1.55	78.9	1,739	297	W	W	0.48	48.7
Year to Date												
2015	2,152,821	114,307	2.16	40.67	1.67	94.9	30,160	5,044	13.46	80.64	0.48	59.3
2016	1,556,446	82,468	1.96	37.02	1.85	86.2	13,360	2,276	9.42	55.36	0.46	66.6
2017	1,736,073	93,096	1.95	36.49	1.63	93.2	11,808	2,010	12.05	70.82	0.46	68.0
Rolling 12 Months Ending in July												
2016	3,135,134	167,143	1.99	37.35	1.74	96.5	38,448	6,421	W	W	0.45	115.9
2017	3,158,719	169,370	1.93	36.09	1.63	92.9	24,183	4,103	W	W	0.47	76.1

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

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	W
Year 2015												
January	1,427	52	W	W	5.10	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	362,702	349,843	2.78	2.88	92.2	W
February	1,313	47	W	W	5.44	97.1	321,535	310,739	2.43	2.51	93.4	W
March	1,337	48	W	W	5.37	65.2	352,243	340,715	1.90	1.96	94.1	W
April	1,203	44	W	W	5.30	88.4	344,777	333,405	2.07	2.14	93.7	W
May	505	18	W	W	5.28	30.6	384,336	372,428	2.04	2.11	94.3	W
June	348	12	W	W	5.32	20.5	456,773	442,681	2.42	2.50	94.3	W
July	223	8	W	W	5.67	12.1	551,548	533,794	2.67	2.76	94.6	W
August	1,509	55	W	W	5.24	77.2	568,632	549,115	2.63	2.72	94.6	W
Sept	1,482	53	W	W	5.43	90.6	448,557	433,304	2.63	2.72	94.3	W
October	1,548	56	W	W	5.59	78.5	361,739	349,983	2.62	2.71	94.0	W
November	1,294	46	W	W	5.43	83.4	317,947	308,170	2.60	2.68	93.3	W
December	1,500	55	W	W	5.50	84.2	314,419	304,102	3.83	3.96	93.5	W
Year 2017												
January	0	0	--	--	--	0.0	260,846	252,069	3.96	4.09	81.2	2.85
February	0	0	--	--	--	0.0	228,800	221,341	3.33	3.44	82.4	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	79.5	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.18	3.29	80.8	W
May	0	0	--	--	--	0.0	269,235	260,637	3.20	3.30	80.2	W
June	0	0	--	--	--	0.0	339,115	328,000	2.93	3.03	81.5	W
July	0	0	--	--	--	0.0	423,931	409,772	2.86	2.96	81.0	W
Year to Date												
2015	8,151	291	2.42	67.80	5.06	62.1	2,616,929	2,531,857	3.27	3.38	93.1	W
2016	6,232	226	2.50	68.87	5.44	59.2	2,773,915	2,683,605	2.35	2.43	93.9	W
2017	0	0	--	--	--	0.0	2,027,047	1,960,648	3.20	3.31	80.9	2.59
Rolling 12 Months Ending in July												
2016	12,632	459	W	W	5.48	66.3	4,840,276	4,681,943	2.43	2.51	93.7	W
2017	7,333	266	W	W	5.44	39.8	4,038,341	3,905,322	3.00	3.10	87.0	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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - July 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.2	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.0	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.6	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.0	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.7	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.1	0	0	--	--	--	0.0
December	214	9	W	W	3.05	13.2	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.9	0	0	--	--	--	0.0
March	104	5	W	W	3.02	8.3	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.3	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.8	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2015	1,703	77	W	W	2.42	15.2	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	4.7	0	0	--	--	--	0.0
2017	336	15	W	W	3.00	4.4	0	0	--	--	--	0.0
Rolling 12 Months Ending in July												
2016	1,170	51	W	W	2.88	7.3	0	0	--	--	--	0.0
2017	1,190	52	W	W	3.06	8.5	0	0	--	--	--	0.0

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.6	W
February	0	0	--	--	--	0.0	488	477	W	W	5.2	W
March	0	0	--	--	--	0.0	620	610	W	W	6.4	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.4	W
June	0	0	--	--	--	0.0	599	585	W	W	6.0	W
July	0	0	--	--	--	0.0	691	667	W	W	6.2	W
August	0	0	--	--	--	0.0	802	765	W	W	7.0	W
Sept	0	0	--	--	--	0.0	610	591	W	W	6.1	W
October	0	0	--	--	--	0.0	598	575	W	W	6.6	W
November	0	0	--	--	--	0.0	613	589	W	W	6.5	W
December	0	0	--	--	--	0.0	568	549	W	W	5.6	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.7	W
February	0	0	--	--	--	0.0	646	624	W	W	6.4	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.8	W
May	0	0	--	--	--	0.0	497	483	W	W	5.5	W
June	0	0	--	--	--	0.0	615	595	W	W	6.2	W
July	0	0	--	--	--	0.0	636	613	W	W	5.9	W
Year to Date												
2015	0	0	--	--	--	0.0	3,344	3,292	W	W	5.0	W
2016	0	0	--	--	--	0.0	4,815	4,697	W	W	6.9	W
2017	0	0	--	--	--	0.0	4,237	4,105	W	W	6.0	W
Rolling 12 Months Ending in July												
2016	0	0	--	--	--	0.0	7,970	7,776	W	W	6.5	W
2017	0	0	--	--	--	0.0	7,427	7,173	W	W	6.1	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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - July 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3
Year 2015												
January	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
Year 2016												
January	14,296	638	W	W	1.51	42.4	142	23	10.87	67.07	1.55	12.2
February	12,538	566	W	W	1.62	40.6	274	45	8.45	51.85	1.10	25.0
March	14,648	658	W	W	1.42	48.0	170	28	8.30	51.02	1.13	23.4
April	12,466	554	W	W	1.59	55.1	177	29	W	W	1.35	24.2
May	12,645	573	2.76	60.98	1.52	49.9	84	14	11.02	66.30	1.65	8.3
June	13,814	619	2.78	62.01	1.38	51.1	190	31	9.59	58.65	1.48	20.3
July	13,139	597	2.77	61.02	1.36	48.4	60	10	10.18	62.12	1.02	5.0
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.4
Sept	10,554	477	W	W	1.37	45.3	120	20	11.04	66.33	1.01	15.4
October	12,729	585	W	W	1.43	58.9	228	37	10.22	62.63	1.14	19.0
November	9,951	451	W	W	1.46	45.2	210	35	10.40	61.84	1.26	24.6
December	11,213	516	W	W	1.49	44.6	103	17	10.53	63.57	0.88	9.4
Year 2017												
January	14,872	698	W	W	1.31	54.2	128	21	11.64	72.27	1.06	12.4
February	15,014	702	W	W	1.10	64.7	121	19	W	W	1.36	16.5
March	17,051	819	W	W	1.28	71.6	178	29	10.66	66.36	1.22	21.8
April	15,389	724	W	W	1.17	70.8	160	26	W	W	1.27	18.2
May	15,645	762	W	W	1.10	71.1	155	25	W	W	1.21	16.6
June	15,163	720	W	W	1.32	66.4	142	23	W	W	1.11	15.7
July	14,992	721	2.47	51.34	1.23	69.5	95	15	W	W	1.30	10.2
Year to Date												
2015	155,151	7,137	W	W	1.35	70.0	1,411	230	14.12	86.45	1.42	15.2
2016	93,547	4,206	W	W	1.48	47.4	1,098	180	9.32	56.95	1.29	16.0
2017	108,125	5,145	W	W	1.22	66.5	978	157	11.14	69.44	1.22	15.7
Rolling 12 Months Ending in July												
2016	202,026	9,201	W	W	1.41	58.8	2,045	334	W	W	1.36	17.7
2017	166,084	7,795	W	W	1.28	59.2	1,697	276	W	W	1.15	15.1

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

Notes:
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 - July 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.8	752,775	729,741	W	W	58.1	W
Year 2015												
January	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	W
Year 2016												
January	400	15	W	W	5.94	16.5	63,795	61,733	W	W	57.6	W
February	122	4	W	W	6.10	4.7	56,903	55,089	W	W	55.3	W
March	574	21	W	W	5.88	18.2	60,786	59,017	W	W	57.3	W
April	669	25	W	W	5.81	29.0	60,713	58,903	W	W	58.9	W
May	206	8	W	W	5.64	8.6	60,417	58,704	W	W	57.4	W
June	222	8	W	W	5.94	8.4	61,662	59,902	W	W	57.7	W
July	222	8	W	W	5.94	8.0	65,190	63,191	W	W	58.3	W
August	217	8	W	W	5.81	8.2	65,565	63,294	W	W	58.0	W
Sept	200	8	W	W	5.64	9.9	62,004	59,964	W	W	57.5	W
October	207	8	W	W	5.66	6.8	62,885	60,993	W	W	59.8	W
November	200	8	W	W	5.47	9.0	65,021	63,167	W	W	59.9	W
December	427	16	W	W	5.99	15.1	67,835	65,784	W	W	58.9	W
Year 2017												
January	0	0	--	--	--	0.0	58,108	56,186	W	W	49.4	W
February	0	0	--	--	--	0.0	54,035	52,337	W	W	51.1	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	49.3	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	49.7	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	49.2	W
June	271	9	W	W	5.75	9.1	54,356	52,640	W	W	50.7	W
July	253	9	W	W	5.85	9.6	57,702	55,842	W	W	51.1	W
Year to Date												
2015	5,648	208	W	W	5.56	27.2	441,472	426,705	W	W	61.6	W
2016	2,414	88	W	W	5.87	13.3	429,466	416,539	W	W	57.5	W
2017	525	19	W	W	5.80	3.1	384,175	371,999	W	W	50.1	W
Rolling 12 Months Ending in July												
2016	4,955	184	W	W	5.61	15.9	753,957	730,810	W	W	58.3	W
2017	1,774	66	W	W	5.77	6.1	707,485	685,201	W	W	53.7	W

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

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

- Values for 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, July 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	3	158	-98.0%	0	20	3	137	0	0	0	2
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	7	-59.0%	0	0	3	5	0	0	0	2
Massachusetts	0	132	-100.0%	0	0	0	132	0	0	0	0
New Hampshire	0	20	-100.0%	0	20	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,526	1,941	-21.0%	0	0	1,516	1,917	0	0	11	25
New Jersey	56	64	-12.0%	0	0	56	64	0	0	0	0
New York	2	59	-97.0%	0	0	2	43	0	0	0	16
Pennsylvania	1,468	1,818	-19.0%	0	0	1,458	1,810	0	0	11	8
East North Central	11,587	12,589	-8.0%	7,211	7,553	4,220	4,853	0	0	156	184
Illinois	3,565	3,683	-3.2%	729	730	2,681	2,819	0	0	155	134
Indiana	2,304	2,227	3.4%	2,182	2,100	122	127	0	0	0	0
Michigan	2,013	2,249	-10.0%	1,959	2,212	53	37	0	0	1	0
Ohio	1,920	2,552	-25.0%	556	670	1,364	1,870	0	0	0	12
Wisconsin	1,786	1,878	-4.9%	1,786	1,841	0	0	0	0	0	37
West North Central	10,779	10,764	0.1%	10,460	10,642	0	0	0	0	319	121
Iowa	1,578	1,562	1.0%	1,381	1,440	0	0	0	0	197	121
Kansas	1,106	1,400	-21.0%	1,106	1,400	0	0	0	0	0	0
Minnesota	1,040	1,036	0.4%	981	1,036	0	0	0	0	59	0
Missouri	3,423	3,276	4.5%	3,423	3,276	0	0	0	0	0	0
Nebraska	1,363	1,245	9.5%	1,301	1,245	0	0	0	0	63	0
North Dakota	2,142	2,076	3.2%	2,142	2,076	0	0	0	0	0	0
South Dakota	127	169	-25.0%	127	169	0	0	0	0	0	0
South Atlantic	7,575	8,119	-6.7%	6,715	7,087	783	981	0	0	76	51
Delaware	0	15	-100.0%	0	0	0	15	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,311	1,548	-15.0%	1,291	1,497	0	51	0	0	21	0
Georgia	1,424	1,503	-5.2%	1,417	1,489	0	0	0	0	7	13
Maryland	231	394	-41.0%	0	0	215	377	0	0	15	17
North Carolina	1,272	985	29.0%	1,254	985	2	0	0	0	17	0
South Carolina	568	717	-21.0%	568	717	0	0	0	0	0	0
Virginia	468	679	-31.0%	419	604	33	57	0	0	16	18
West Virginia	2,300	2,279	0.9%	1,767	1,796	534	480	0	0	0	3
East South Central	5,938	6,273	-5.3%	5,598	5,844	267	329	0	0	73	100
Alabama	1,686	1,733	-2.7%	1,686	1,733	0	0	0	0	0	0
Kentucky	2,762	2,937	-6.0%	2,762	2,937	0	0	0	0	0	0
Mississippi	497	453	9.8%	231	124	267	329	0	0	0	0
Tennessee	994	1,150	-14.0%	920	1,050	0	0	0	0	73	100
West South Central	11,110	10,888	2.0%	5,426	5,191	5,663	5,693	0	0	22	5
Arkansas	1,376	1,172	17.0%	1,173	953	197	214	0	0	6	5
Louisiana	636	618	2.9%	391	520	245	98	0	0	0	0
Oklahoma	1,005	922	9.0%	900	832	90	90	0	0	15	0
Texas	8,092	8,176	-1.0%	2,961	2,885	5,131	5,291	0	0	0	0
Mountain	7,820	8,038	-2.7%	6,866	7,167	935	827	0	0	20	44
Arizona	1,421	1,307	8.7%	1,421	1,307	0	0	0	0	0	0
Colorado	1,433	1,316	8.9%	1,433	1,316	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	831	783	6.1%	24	0	806	783	0	0	0	0
Nevada	106	44	139.0%	61	0	45	44	0	0	0	0
New Mexico	971	1,129	-14.0%	971	1,129	0	0	0	0	0	0
Utah	1,051	1,237	-15.0%	994	1,193	38	0	0	0	20	44
Wyoming	2,007	2,222	-9.6%	1,962	2,222	45	0	0	0	0	0
Pacific Contiguous	401	496	-19.0%	0	154	357	276	0	0	44	66
California	44	66	-34.0%	0	0	0	0	0	0	44	66
Oregon	0	154	-100.0%	0	154	0	0	0	0	0	0
Washington	357	276	29.0%	0	0	357	276	0	0	0	0
Pacific Noncontiguous	136	134	2.1%	14	15	123	118	0	0	0	0
Alaska	14	15	-11.0%	14	15	0	0	0	0	0	0
Hawaii	123	118	3.8%	0	0	123	118	0	0	0	0
U.S. Total	56,876	59,400	-4.2%	42,290	43,673	13,865	15,130	0	0	721	597

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	168	804	-79.0%	45	73	124	723	0	0	0	8
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	37	48	-23.0%	0	0	37	40	0	0	0	8
Massachusetts	87	598	-86.0%	0	0	87	598	0	0	0	0
New Hampshire	45	73	-38.0%	45	73	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	11,710	10,885	7.6%	0	0	11,510	10,655	0	0	200	229
New Jersey	375	346	8.4%	0	0	375	346	0	0	0	0
New York	219	250	-12.0%	0	0	97	88	0	0	123	162
Pennsylvania	11,115	10,288	8.0%	0	0	11,038	10,221	0	0	77	68
East North Central	78,049	75,806	3.0%	47,495	44,642	29,408	29,773	0	0	1,146	1,391
Illinois	23,330	21,583	8.1%	4,740	4,391	17,490	16,196	0	0	1,099	996
Indiana	16,409	16,566	-0.9%	15,572	15,476	837	1,090	0	0	0	0
Michigan	12,624	11,177	13.0%	12,474	11,042	143	125	0	0	6	10
Ohio	14,729	16,813	-12.0%	3,792	4,314	10,938	12,362	0	0	0	137
Wisconsin	10,957	9,668	13.0%	10,917	9,420	0	0	0	0	40	248
West North Central	64,812	63,542	2.0%	62,826	62,795	0	0	15	19	1,972	728
Iowa	8,334	9,605	-13.0%	7,055	8,877	0	0	0	0	1,279	728
Kansas	6,350	7,468	-15.0%	6,350	7,468	0	0	0	0	0	0
Minnesota	6,997	6,152	14.0%	6,746	6,152	0	0	0	0	251	0
Missouri	21,402	19,745	8.4%	21,387	19,725	0	0	15	19	0	0
Nebraska	7,728	7,173	7.7%	7,286	7,173	0	0	0	0	442	0
North Dakota	13,227	12,629	4.7%	13,227	12,629	0	0	0	0	0	0
South Dakota	775	770	0.7%	775	770	0	0	0	0	0	0
South Atlantic	52,470	52,611	-0.3%	46,185	46,169	5,680	5,908	0	0	604	534
Delaware	200	172	16.0%	0	0	200	172	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,138	8,123	12.0%	9,030	7,934	13	189	0	0	95	0
Georgia	9,979	9,345	6.8%	9,920	9,262	0	0	0	0	60	83
Maryland	2,244	2,523	-11.0%	0	0	2,128	2,387	0	0	116	136
North Carolina	7,943	5,719	39.0%	7,724	5,719	31	0	0	0	188	0
South Carolina	4,014	5,135	-22.0%	3,995	5,069	0	0	0	0	19	66
Virginia	3,500	4,509	-22.0%	3,148	4,090	225	239	0	0	128	180
West Virginia	15,452	17,084	-9.6%	12,368	14,095	3,084	2,920	0	0	0	69
East South Central	36,858	36,391	1.3%	34,652	33,908	1,639	1,724	0	0	567	759
Alabama	9,177	9,018	1.8%	9,177	9,018	0	0	0	0	0	0
Kentucky	19,994	20,533	-2.6%	19,994	20,533	0	0	0	0	0	0
Mississippi	2,366	2,095	13.0%	727	371	1,639	1,724	0	0	0	0
Tennessee	5,322	4,745	12.0%	4,754	3,986	0	0	0	0	567	759
West South Central	68,030	53,733	27.0%	30,121	26,262	37,653	27,436	0	0	256	35
Arkansas	7,191	6,910	4.1%	6,606	5,739	542	1,136	0	0	44	35
Louisiana	5,001	3,735	34.0%	3,048	2,887	1,953	848	0	0	0	0
Oklahoma	4,801	5,350	-10.0%	4,014	4,758	575	592	0	0	212	0
Texas	51,036	37,738	35.0%	16,454	12,878	34,583	24,860	0	0	0	0
Mountain	49,931	47,421	5.3%	44,686	42,713	5,196	4,570	0	0	49	138
Arizona	9,006	7,741	16.0%	9,006	7,741	0	0	0	0	0	0
Colorado	9,164	8,599	6.6%	9,164	8,599	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,482	4,306	4.1%	161	0	4,321	4,306	0	0	0	0
Nevada	394	468	-16.0%	61	204	333	264	0	0	0	0
New Mexico	6,399	5,996	6.7%	6,399	5,996	0	0	0	0	0	0
Utah	7,063	7,336	-3.7%	6,779	7,197	236	0	0	0	49	138
Wyoming	13,423	12,975	3.5%	13,117	12,975	307	0	0	0	0	0
Pacific Contiguous	1,980	2,082	-4.9%	165	499	1,464	1,199	0	0	351	383
California	351	383	-8.4%	0	0	0	0	0	0	351	383
Oregon	165	499	-67.0%	165	499	0	0	0	0	0	0
Washington	1,464	1,199	22.0%	0	0	1,464	1,199	0	0	0	0
Pacific Noncontiguous	512	602	-15.0%	89	123	423	480	0	0	0	0
Alaska	89	123	-28.0%	89	123	0	0	0	0	0	0
Hawaii	423	480	-12.0%	0	0	423	480	0	0	0	0
U.S. Total	364,520	343,877	6.0%	266,264	257,184	93,096	82,468	15	19	5,145	4,206

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, July 2017 and 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	4	3	21.0%	0	1	4	2	0	0	0	1
Connecticut	2	1	301.0%	0	0	2	1	0	0	0	0
Maine	2	2	-20.0%	0	0	2	2	0	0	0	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	1	-83.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	19	66	-72.0%	0	1	12	65	0	0	6	1
New Jersey	0	1	-70.0%	0	0	0	1	0	0	0	0
New York	3	52	-94.0%	0	1	3	51	0	0	0	0
Pennsylvania	15	13	18.0%	0	0	9	12	0	0	6	0
East North Central	57	66	-13.0%	30	34	26	31	0	0	2	1
Illinois	4	5	-33.0%	0	0	4	5	0	0	0	0
Indiana	15	11	37.0%	15	11	0	0	0	0	0	0
Michigan	7	14	-49.0%	6	13	0	0	0	0	1	0
Ohio	29	32	-11.0%	5	6	23	25	0	0	1	1
Wisconsin	3	3	-5.1%	3	3	0	0	0	0	0	0
West North Central	13	24	-47.0%	13	24	0	0	0	0	0	0
Iowa	3	4	-30.0%	3	4	0	0	0	0	0	0
Kansas	2	4	-56.0%	2	4	0	0	0	0	0	0
Minnesota	3	4	-27.0%	3	4	0	0	0	0	0	0
Missouri	3	10	-65.0%	3	10	0	0	0	0	0	0
Nebraska	1	0	--	1	0	0	0	0	0	0	0
North Dakota	2	3	-42.0%	2	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	312	429	-27.0%	246	394	59	27	0	0	6	8
Delaware	4	2	98.0%	0	0	4	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	133	291	-54.0%	131	287	0	5	0	0	2	0
Georgia	17	21	-19.0%	16	20	0	0	0	0	1	2
Maryland	54	9	508.0%	0	0	54	9	0	0	0	0
North Carolina	13	12	16.0%	12	12	0	0	0	0	2	0
South Carolina	8	13	-38.0%	8	9	0	0	0	0	0	4
Virginia	65	64	1.7%	62	50	1	12	0	0	1	2
West Virginia	17	17	5.1%	17	17	0	0	0	0	0	0
East South Central	30	44	-31.0%	29	44	0	0	0	0	1	0
Alabama	4	2	65.0%	4	2	0	0	0	0	0	0
Kentucky	14	19	-27.0%	14	19	0	0	0	0	0	0
Mississippi	1	2	-55.0%	1	2	0	0	0	0	0	0
Tennessee	11	21	-44.0%	11	21	0	0	0	0	1	0
West South Central	20	13	58.0%	7	7	13	6	0	0	0	0
Arkansas	7	1	716.0%	2	0	5	1	0	0	0	0
Louisiana	0	2	-100.0%	0	2	0	0	0	0	0	0
Oklahoma	0	0	-100.0%	0	0	0	0	0	0	0	0
Texas	13	9	42.0%	5	4	8	5	0	0	0	0
Mountain	34	25	38.0%	30	21	4	3	0	0	0	0
Arizona	12	8	48.0%	12	8	0	0	0	0	0	0
Colorado	0	0	-100.0%	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	3	20.0%	0	0	3	3	0	0	0	0
Nevada	4	4	-3.1%	3	3	1	1	0	0	0	0
New Mexico	4	3	32.0%	4	3	0	0	0	0	0	0
Utah	2	1	86.0%	2	1	0	0	0	0	0	0
Wyoming	9	5	67.0%	9	5	0	0	0	0	0	0
Pacific Contiguous	8	2	298.0%	3	0	5	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	3	0	--	3	0	0	0	0	0	0	0
Washington	5	2	133.0%	0	0	5	2	0	0	0	0
Pacific Noncontiguous	584	789	-26.0%	411	616	173	173	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	583	789	-26.0%	410	616	173	173	0	0	0	0
U.S. Total	1,081	1,460	-26.0%	769	1,142	297	309	0	0	15	10

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	196	201	-2.5%	9	72	187	126	0	0	0	3
Connecticut	22	26	-16.0%	0	0	22	26	0	0	0	0
Maine	87	17	413.0%	0	0	87	14	0	0	0	3
Massachusetts	78	144	-46.0%	0	65	78	78	0	0	0	0
New Hampshire	9	6	41.0%	9	6	0	0	0	0	0	0
Rhode Island	0	8	-100.0%	0	0	0	8	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	486	419	16.0%	172	17	260	393	0	0	54	9
New Jersey	3	8	-64.0%	0	0	3	8	0	0	0	0
New York	276	201	38.0%	172	17	86	177	0	0	18	7
Pennsylvania	208	210	-1.3%	0	0	171	207	0	0	37	3
East North Central	435	559	-22.0%	257	304	163	236	0	0	16	19
Illinois	52	78	-34.0%	2	2	50	76	0	0	0	0
Indiana	116	113	2.2%	116	113	0	0	0	0	0	0
Michigan	68	110	-38.0%	61	104	0	0	0	0	7	5
Ohio	175	231	-24.0%	54	58	113	159	0	0	9	14
Wisconsin	25	27	-7.5%	25	26	0	0	0	0	0	0
West North Central	233	210	11.0%	233	210	0	0	0	0	0	0
Iowa	58	55	4.3%	58	55	0	0	0	0	0	0
Kansas	51	26	92.0%	51	26	0	0	0	0	0	0
Minnesota	17	14	21.0%	17	14	0	0	0	0	0	0
Missouri	47	67	-30.0%	47	67	0	0	0	0	0	0
Nebraska	1	2	-58.0%	1	2	0	0	0	0	0	0
North Dakota	55	42	31.0%	55	42	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	2,083	2,410	-14.0%	1,806	1,884	195	383	0	0	82	143
Delaware	11	47	-76.0%	0	0	11	47	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,283	583	120.0%	1,264	578	0	5	0	0	19	0
Georgia	112	187	-40.0%	89	120	3	31	0	0	19	36
Maryland	122	123	-0.7%	0	0	122	123	0	0	0	0
North Carolina	171	196	-13.0%	151	135	1	61	0	0	19	0
South Carolina	69	196	-65.0%	56	105	0	0	0	0	13	92
Virginia	213	953	-78.0%	144	822	58	116	0	0	12	16
West Virginia	102	124	-17.0%	102	124	0	0	0	0	0	0
East South Central	233	289	-19.0%	224	274	4	10	0	0	5	5
Alabama	29	51	-43.0%	25	40	4	10	0	0	0	0
Kentucky	105	116	-9.7%	105	116	0	0	0	0	0	0
Mississippi	10	18	-41.0%	10	18	0	0	0	0	0	0
Tennessee	88	104	-15.0%	84	99	0	0	0	0	5	5
West South Central	141	174	-19.0%	55	132	86	42	0	0	0	0
Arkansas	58	45	29.0%	18	33	40	12	0	0	0	0
Louisiana	0	50	-100.0%	0	48	0	2	0	0	0	0
Oklahoma	3	3	10.0%	3	3	0	0	0	0	0	0
Texas	80	76	5.0%	34	48	46	28	0	0	0	0
Mountain	205	205	0.0%	188	191	18	14	0	0	0	0
Arizona	43	59	-28.0%	43	59	0	0	0	0	0	0
Colorado	1	10	-89.0%	1	10	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	11	11	-1.8%	0	0	11	11	0	0	0	0
Nevada	11	16	-26.0%	7	13	4	3	0	0	0	0
New Mexico	40	54	-26.0%	40	54	0	0	0	0	0	0
Utah	44	16	180.0%	42	16	2	0	0	0	0	0
Wyoming	55	40	38.0%	55	40	0	0	0	0	0	0
Pacific Contiguous	22	9	160.0%	10	0	12	9	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	10	0	--	10	0	0	0	0	0	0	0
Washington	12	9	38.0%	0	0	12	9	0	0	0	0
Pacific Noncontiguous	4,934	5,094	-3.2%	3,848	4,032	1,086	1,062	0	0	0	0
Alaska	1	4	-74.0%	1	4	0	0	0	0	0	0
Hawaii	4,933	5,091	-3.1%	3,847	4,028	1,086	1,062	0	0	0	0
U.S. Total	8,970	9,570	-6.3%	6,803	7,114	2,010	2,276	0	0	157	180

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 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	50	56	-10.0%	50	48	0	8	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	44	39	13.0%	44	39	0	0	0	0	0	0
Ohio	0	8	-100.0%	0	0	0	8	0	0	0	0
Wisconsin	6	9	-35.0%	6	9	0	0	0	0	0	0
West North Central	9	0	--	0	0	0	0	0	0	9	0
Iowa	9	0	--	0	0	0	0	0	0	9	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	88	162	-46.0%	88	154	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	88	154	-43.0%	88	154	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	155	137	12.0%	155	137	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	155	137	12.0%	155	137	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	302	355	-15.0%	292	340	0	8	0	0	9	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:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	293	607	-52.0%	293	363	0	226	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	272	181	50.0%	272	181	0	0	0	0	0	0
Ohio	0	226	-100.0%	0	0	0	226	0	0	0	0
Wisconsin	21	38	-44.0%	21	20	0	0	0	0	0	18
West North Central	19	0	--	0	0	0	0	0	0	19	0
Iowa	19	0	--	0	0	0	0	0	0	19	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	370	910	-59.0%	370	840	0	0	0	0	0	70
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	370	840	-56.0%	370	840	0	0	0	0	0	0
Georgia	0	70	-100.0%	0	0	0	0	0	0	0	70
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	117	47	148.0%	117	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	117	47	148.0%	117	47	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,092	819	33.0%	1,092	819	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,092	819	33.0%	1,092	819	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	1,891	2,383	-21.0%	1,872	2,068	0	226	0	0	19	88

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	27,653	44,584	-38.0%	179	619	27,474	43,965	0	0	0	0
Connecticut	9,890	11,076	-11.0%	0	0	9,890	11,076	0	0	0	0
Maine	6	3,265	-100.0%	0	0	6	3,265	0	0	0	0
Massachusetts	13,345	20,175	-34.0%	177	422	13,167	19,753	0	0	0	0
New Hampshire	2,926	4,150	-29.0%	1	197	2,925	3,953	0	0	0	0
Rhode Island	1,486	5,918	-75.0%	0	0	1,486	5,918	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	97,580	145,862	-33.0%	10,618	13,756	86,744	131,888	0	0	218	218
New Jersey	16,020	37,402	-57.0%	0	0	16,020	37,402	0	0	0	0
New York	36,651	53,516	-32.0%	10,618	13,756	25,971	39,695	0	0	62	65
Pennsylvania	44,909	54,944	-18.0%	0	0	44,753	54,791	0	0	156	153
East North Central	62,801	95,903	-35.0%	24,005	43,843	37,454	50,819	446	494	895	746
Illinois	8,154	21,662	-62.0%	36	1,817	8,117	19,842	0	0	2	4
Indiana	11,163	14,587	-23.0%	9,035	12,151	2,129	2,436	0	0	0	0
Michigan	18,650	24,825	-25.0%	5,358	11,777	12,510	12,004	446	494	336	550
Ohio	18,064	21,947	-18.0%	4,423	6,864	13,315	14,997	0	0	326	87
Wisconsin	6,770	12,882	-47.0%	5,154	11,235	1,384	1,541	0	0	231	106
West North Central	7,028	21,978	-68.0%	6,102	18,191	208	3,614	167	173	551	0
Iowa	2,487	3,555	-30.0%	1,972	3,555	0	0	0	0	515	0
Kansas	2,434	2,352	3.5%	2,434	2,352	0	0	0	0	0	0
Minnesota	336	8,091	-96.0%	91	6,266	208	1,823	1	1	36	0
Missouri	1,120	6,425	-83.0%	954	4,462	0	1,790	166	172	0	0
Nebraska	579	634	-8.8%	579	634	0	0	0	0	0	0
North Dakota	71	251	-72.0%	71	251	0	0	0	0	0	0
South Dakota	0	669	-100.0%	0	669	0	0	0	0	0	0
South Atlantic	217,780	265,226	-18.0%	181,590	205,724	33,290	56,048	0	0	2,900	3,454
Delaware	3,307	8,104	-59.0%	0	0	3,307	6,859	0	0	0	1,245
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	109,948	119,829	-8.2%	108,214	108,623	1,578	11,206	0	0	157	0
Georgia	29,518	44,278	-33.0%	23,164	32,983	5,590	10,601	0	0	763	693
Maryland	4,804	9,397	-49.0%	0	0	4,634	9,182	0	0	170	215
North Carolina	24,271	28,966	-16.0%	20,954	24,047	3,023	4,919	0	0	294	0
South Carolina	11,000	15,400	-29.0%	9,148	12,769	1,795	2,522	0	0	56	108
Virginia	32,976	37,994	-13.0%	19,945	26,949	12,288	10,403	0	0	742	642
West Virginia	1,957	1,260	55.0%	165	353	1,075	355	0	0	716	551
East South Central	85,695	101,140	-15.0%	56,986	67,188	26,968	32,726	0	0	1,741	1,226
Alabama	36,614	42,209	-13.0%	12,653	12,890	23,961	29,319	0	0	0	0
Kentucky	7,166	8,057	-11.0%	6,677	7,047	489	1,010	0	0	0	0
Mississippi	32,680	39,539	-17.0%	30,163	37,142	2,518	2,397	0	0	0	0
Tennessee	9,234	11,335	-19.0%	7,493	10,109	0	0	0	0	1,741	1,226
West South Central	248,182	307,670	-19.0%	63,578	107,480	137,788	146,061	0	0	46,817	54,130
Arkansas	9,180	15,589	-41.0%	1	6,720	9,048	8,796	0	0	131	73
Louisiana	42,434	53,254	-20.0%	22,092	30,321	2,771	4,890	0	0	17,571	18,043
Oklahoma	29,870	33,686	-11.0%	18,185	24,163	11,453	9,523	0	0	232	0
Texas	166,699	205,141	-19.0%	23,300	46,276	114,516	122,852	0	0	28,883	36,013
Mountain	79,684	84,086	-5.2%	62,283	62,145	17,344	21,884	0	0	57	57
Arizona	33,644	36,257	-7.2%	20,611	19,191	13,033	17,066	0	0	0	0
Colorado	11,622	11,016	5.5%	9,810	9,150	1,811	1,866	0	0	0	0
Idaho	0	2,146	-100.0%	0	1,729	0	417	0	0	0	0
Montana	319	0	--	319	0	0	0	0	0	0	0
Nevada	21,285	20,899	1.8%	21,285	20,899	0	0	0	0	0	0
New Mexico	8,147	7,957	2.4%	5,750	5,569	2,397	2,387	0	0	0	0
Utah	4,446	5,812	-23.0%	4,289	5,606	100	148	0	0	57	57
Wyoming	221	0	--	219	0	2	0	0	0	0	0
Pacific Contiguous	71,366	81,064	-12.0%	26,201	30,914	42,501	46,790	0	0	2,664	3,361
California	61,757	62,671	-1.5%	21,740	21,127	37,353	38,183	0	0	2,664	3,361
Oregon	6,783	10,398	-35.0%	1,634	4,981	5,148	5,417	0	0	0	0
Washington	2,827	7,996	-65.0%	2,827	4,806	0	3,190	0	0	0	0
Pacific Noncontiguous	57	1,071	-95.0%	57	1,071	0	0	0	0	0	0
Alaska	57	1,071	-95.0%	57	1,071	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	897,826	1,148,584	-22.0%	431,599	550,931	409,772	533,794	613	667	55,842	63,191

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	154,274	219,485	-30.0%	620	1,065	153,655	218,420	0	0	0	0
Connecticut	55,077	69,415	-21.0%	0	0	55,077	69,415	0	0	0	0
Maine	22	13,437	-100.0%	0	0	22	13,437	0	0	0	0
Massachusetts	77,096	90,838	-15.0%	378	761	76,718	90,077	0	0	0	0
New Hampshire	14,263	17,736	-20.0%	241	304	14,021	17,431	0	0	0	0
Rhode Island	7,816	28,059	-72.0%	0	0	7,816	28,059	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	487,736	681,221	-28.0%	48,335	59,729	437,377	620,111	0	0	2,025	1,381
New Jersey	87,171	176,846	-51.0%	0	0	87,171	176,846	0	0	0	0
New York	184,284	240,505	-23.0%	48,335	59,729	135,204	180,261	0	0	746	515
Pennsylvania	216,281	263,870	-18.0%	0	0	215,002	263,004	0	0	1,279	866
East North Central	336,745	503,892	-33.0%	127,368	226,089	197,940	268,137	3,315	3,757	8,122	5,910
Illinois	39,235	77,742	-50.0%	139	7,027	39,069	70,695	0	0	27	20
Indiana	61,851	86,117	-28.0%	51,095	69,613	10,756	16,504	0	0	0	0
Michigan	101,365	141,935	-29.0%	21,543	49,160	73,100	85,545	3,315	3,757	3,407	3,473
Ohio	100,190	123,266	-19.0%	27,976	33,862	69,268	89,098	0	0	2,946	306
Wisconsin	34,105	74,832	-54.0%	26,616	66,427	5,747	6,294	0	0	1,742	2,110
West North Central	23,714	101,230	-77.0%	20,781	84,502	282	15,781	790	940	1,861	8
Iowa	8,432	16,935	-50.0%	6,674	16,927	0	0	0	0	1,758	8
Kansas	8,762	9,270	-5.5%	8,762	9,270	0	0	0	0	0	0
Minnesota	709	40,683	-98.0%	319	32,653	282	8,026	5	3	103	0
Missouri	3,531	27,420	-87.0%	2,745	18,729	0	7,754	785	937	0	0
Nebraska	1,391	2,366	-41.0%	1,391	2,366	0	0	0	0	0	0
North Dakota	889	939	-5.4%	889	939	0	0	0	0	0	0
South Dakota	0	3,618	-100.0%	0	3,618	0	0	0	0	0	0
South Atlantic	1,209,454	1,412,207	-14.0%	1,024,675	1,139,313	165,078	251,160	0	0	19,701	21,735
Delaware	18,214	35,922	-49.0%	0	0	18,214	27,876	0	0	0	8,046
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	605,435	685,147	-12.0%	595,819	629,863	8,361	55,284	0	0	1,256	0
Georgia	176,220	237,064	-26.0%	137,255	176,724	33,541	54,638	0	0	5,424	5,702
Maryland	21,588	27,985	-23.0%	0	0	20,186	26,685	0	0	1,402	1,300
North Carolina	146,987	174,596	-16.0%	128,827	153,220	17,369	21,376	0	0	791	0
South Carolina	63,615	70,914	-10.0%	54,550	57,413	8,494	12,309	0	0	571	1,192
Virginia	169,629	173,315	-2.1%	107,320	121,260	56,754	47,614	0	0	5,555	4,440
West Virginia	7,765	7,264	6.9%	904	832	2,159	5,377	0	0	4,702	1,054
East South Central	442,119	540,941	-18.0%	295,683	358,403	135,947	176,831	0	0	10,489	5,707
Alabama	185,871	224,194	-17.0%	67,609	66,682	118,262	157,512	0	0	0	0
Kentucky	29,421	39,853	-26.0%	27,580	36,696	1,841	3,156	0	0	0	0
Mississippi	176,074	220,641	-20.0%	160,229	204,479	15,845	16,162	0	0	0	0
Tennessee	50,753	56,253	-9.8%	40,264	50,546	0	0	0	0	10,489	5,707
West South Central	1,215,475	1,712,198	-29.0%	269,718	529,531	636,269	824,539	0	0	309,487	358,128
Arkansas	44,153	82,803	-47.0%	39	32,121	42,992	49,241	0	0	1,122	1,441
Louisiana	247,745	327,215	-24.0%	112,410	167,763	20,202	35,085	0	0	115,133	124,366
Oklahoma	115,601	164,186	-30.0%	69,412	116,232	45,128	47,955	0	0	1,062	0
Texas	807,976	1,137,994	-29.0%	87,857	213,415	527,947	692,258	0	0	192,171	232,320
Mountain	331,476	405,902	-18.0%	271,104	321,766	59,920	83,671	0	0	452	464
Arizona	116,158	147,274	-21.0%	79,236	92,308	36,922	54,966	0	0	0	0
Colorado	51,114	57,078	-10.0%	43,372	47,795	7,742	9,283	0	0	0	0
Idaho	0	11,792	-100.0%	0	7,466	0	4,326	0	0	0	0
Montana	1,711	0	--	1,711	0	0	0	0	0	0	0
Nevada	100,580	113,364	-11.0%	100,580	113,364	0	0	0	0	0	0
New Mexico	40,349	42,687	-5.5%	25,875	28,208	14,474	14,479	0	0	0	0
Utah	21,047	33,677	-38.0%	19,823	32,596	772	617	0	0	452	464
Wyoming	517	29	NM	506	29	11	0	0	0	0	0
Pacific Contiguous	318,765	403,978	-21.0%	124,723	155,814	174,179	224,956	0	0	19,862	23,207
California	283,181	317,281	-11.0%	108,649	112,312	154,670	181,762	0	0	19,862	23,207
Oregon	24,299	51,641	-53.0%	4,789	22,506	19,509	29,135	0	0	0	0
Washington	11,285	35,056	-68.0%	11,285	20,996	0	14,059	0	0	0	0
Pacific Noncontiguous	857	7,927	-89.0%	857	7,927	0	0	0	0	0	0
Alaska	857	7,927	-89.0%	857	7,927	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,520,615	5,988,980	-25.0%	2,183,863	2,884,139	1,960,648	2,683,605	4,105	4,697	371,999	416,539

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016
New England	W	W	W	--	4.09	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	4.09	--	--	4.09	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.91	1.93	-1.0%	--	--	1.91	1.93
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.85	1.85	0.0%	--	--	1.85	1.85
East North Central	2.03	2.07	-1.9%	2.10	2.18	1.92	1.91
Illinois	1.80	W	W	1.84	2.05	1.79	W
Indiana	W	W	W	2.14	2.25	W	W
Michigan	W	W	W	2.13	2.25	W	W
Ohio	W	2.02	W	1.72	1.83	W	2.09
Wisconsin	2.27	2.20	3.2%	2.27	2.20	--	--
West North Central	1.72	1.71	0.6%	1.72	1.71	--	--
Iowa	1.68	1.63	3.1%	1.68	1.63	--	--
Kansas	1.71	1.67	2.4%	1.71	1.67	--	--
Minnesota	2.10	2.06	1.9%	2.10	2.06	--	--
Missouri	1.86	1.86	0.0%	1.86	1.86	--	--
Nebraska	1.37	1.35	1.5%	1.37	1.35	--	--
North Dakota	1.49	1.51	-1.3%	1.49	1.51	--	--
South Dakota	2.21	2.16	2.3%	2.21	2.16	--	--
South Atlantic	2.70	2.75	-1.8%	2.73	2.79	2.46	2.45
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.86	W	W	2.86	3.02	--	W
Georgia	2.75	2.77	-0.7%	2.75	2.77	--	--
Maryland	2.44	2.81	-13.0%	--	--	2.44	2.81
North Carolina	W	3.10	W	2.99	3.10	W	--
South Carolina	3.27	3.06	6.9%	3.27	3.06	--	--
Virginia	W	W	W	2.83	2.95	W	W
West Virginia	W	W	W	2.26	2.29	W	W
East South Central	W	W	W	2.16	2.23	W	W
Alabama	2.24	2.43	-7.8%	2.24	2.43	--	--
Kentucky	2.01	2.13	-5.6%	2.01	2.13	--	--
Mississippi	W	W	W	2.81	2.47	W	W
Tennessee	2.32	2.18	6.4%	2.32	2.18	--	--
West South Central	2.01	1.90	5.8%	2.08	2.16	1.94	1.63
Arkansas	W	W	W	2.16	2.23	W	W
Louisiana	W	W	W	2.26	2.87	W	W
Oklahoma	W	W	W	1.81	1.79	W	W
Texas	2.00	1.80	11.0%	2.10	2.13	1.94	1.60
Mountain	W	W	W	1.90	1.98	W	W
Arizona	2.25	2.09	7.7%	2.25	2.09	--	--
Colorado	1.67	1.81	-7.7%	1.67	1.81	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.75	--	W	W
Nevada	W	W	W	3.05	--	W	W
New Mexico	2.06	1.95	5.6%	2.06	1.95	--	--
Utah	1.96	1.93	1.6%	1.96	1.93	--	--
Wyoming	W	2.07	W	1.65	2.07	W	--
Pacific Contiguous	W	W	W	--	2.29	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.29	--	--	2.29	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	2.97	3.14	W	W
Alaska	2.97	3.14	-5.4%	2.97	3.14	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.08	2.11	-1.4%	2.12	2.18	1.97	1.90

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	W	3.02	W	4.34	4.02	W	2.90
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	4.02	8.0%	4.34	4.02	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.99	2.04	-2.5%	--	--	1.99	2.04
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.92	W	W	--	--	1.92	W
East North Central	2.03	2.09	-2.9%	2.12	2.17	1.89	1.97
Illinois	1.80	W	W	1.84	2.02	1.78	W
Indiana	W	W	W	2.18	2.24	W	W
Michigan	W	W	W	2.17	2.25	W	W
Ohio	W	2.07	W	1.74	1.90	W	2.13
Wisconsin	2.27	2.18	4.1%	2.27	2.18	--	--
West North Central	1.76	1.72	2.3%	1.76	1.72	--	--
Iowa	1.69	1.61	5.0%	1.69	1.61	--	--
Kansas	1.73	1.69	2.4%	1.73	1.69	--	--
Minnesota	2.10	2.08	1.0%	2.10	2.08	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.37	1.34	2.2%	1.37	1.34	--	--
North Dakota	1.62	1.56	3.8%	1.62	1.56	--	--
South Dakota	2.27	2.23	1.8%	2.27	2.23	--	--
South Atlantic	2.70	2.76	-2.2%	2.72	2.79	2.51	2.50
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.95	3.04	W	W
Georgia	2.76	2.85	-3.2%	2.76	2.85	--	--
Maryland	2.77	2.77	0.0%	--	--	2.77	2.77
North Carolina	W	3.08	W	2.97	3.08	W	--
South Carolina	3.27	3.22	1.6%	3.27	3.22	--	--
Virginia	W	W	W	2.73	2.91	W	W
West Virginia	W	W	W	2.22	2.32	W	W
East South Central	W	W	W	2.08	2.22	W	W
Alabama	2.18	2.44	-11.0%	2.18	2.44	--	--
Kentucky	1.97	2.12	-7.1%	1.97	2.12	--	--
Mississippi	W	W	W	2.80	2.61	W	W
Tennessee	2.26	2.21	2.3%	2.26	2.21	--	--
West South Central	1.97	1.91	3.1%	2.11	2.16	1.86	1.64
Arkansas	W	W	W	2.12	2.21	W	W
Louisiana	W	W	W	2.36	2.79	W	W
Oklahoma	W	W	W	1.87	1.91	W	W
Texas	1.93	1.78	8.4%	2.12	2.10	1.84	1.60
Mountain	W	W	W	1.91	1.89	W	W
Arizona	2.26	2.15	5.1%	2.26	2.15	--	--
Colorado	1.81	1.89	-4.2%	1.81	1.89	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.74	--	W	W
Nevada	W	W	W	3.05	1.95	W	W
New Mexico	1.95	1.82	7.1%	1.95	1.82	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	W	1.72	W	1.65	1.72	W	--
Pacific Contiguous	W	W	W	2.40	2.30	W	W
California	--	--	--	--	--	--	--
Oregon	2.40	2.30	4.3%	2.40	2.30	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.04	3.11	W	W
Alaska	3.04	3.11	-2.3%	3.04	3.11	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.09	2.12	-1.4%	2.13	2.17	1.95	1.96

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016
New England	W	7.61	W	13.60	9.12	W	7.13
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	--	W	--	--	W	--
New Hampshire	13.60	9.12	49.0%	13.60	9.12	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.45	W	W	--	10.06	11.45	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	10.06	W	W
Pennsylvania	11.60	10.82	7.2%	--	--	11.60	10.82
East North Central	11.76	11.11	5.9%	11.72	11.04	11.81	11.20
Illinois	W	11.16	W	--	--	W	11.16
Indiana	11.60	11.17	3.8%	11.60	11.17	--	--
Michigan	11.58	10.74	7.8%	11.58	10.74	--	--
Ohio	W	11.21	W	12.51	11.25	W	11.21
Wisconsin	11.36	11.42	-0.5%	11.36	11.42	--	--
West North Central	11.88	11.16	6.5%	11.88	11.16	--	--
Iowa	11.92	10.92	9.2%	11.92	10.92	--	--
Kansas	12.24	11.73	4.3%	12.24	11.73	--	--
Minnesota	11.97	11.40	5.0%	11.97	11.40	--	--
Missouri	11.76	11.07	6.2%	11.76	11.07	--	--
Nebraska	12.46	--	--	12.46	--	--	--
North Dakota	11.24	10.56	6.4%	11.24	10.56	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	11.31	13.74	-18.0%	11.51	13.86	10.48	11.77
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.14	W	W	12.14	15.76	--	W
Georgia	11.23	10.29	9.1%	11.23	10.29	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	11.53	10.73	7.5%	11.53	10.73	--	--
South Carolina	11.94	11.44	4.4%	11.94	11.44	--	--
Virginia	W	W	W	10.23	6.15	W	W
West Virginia	11.39	11.09	2.7%	11.39	11.09	--	--
East South Central	11.59	10.64	8.9%	11.59	10.64	--	--
Alabama	12.40	12.28	1.0%	12.40	12.28	--	--
Kentucky	11.75	10.62	11.0%	11.75	10.62	--	--
Mississippi	11.15	10.81	3.1%	11.15	10.81	--	--
Tennessee	11.13	10.46	6.4%	11.13	10.46	--	--
West South Central	11.67	10.60	10.0%	11.14	10.84	11.97	10.33
Arkansas	W	W	W	11.34	--	W	W
Louisiana	--	10.14	--	--	10.14	--	--
Oklahoma	--	12.60	--	--	12.60	--	--
Texas	W	W	W	11.05	11.13	W	W
Mountain	W	W	W	12.38	11.40	W	W
Arizona	11.78	11.09	6.2%	11.78	11.09	--	--
Colorado	--	10.87	--	--	10.87	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.45	11.78	W	W
New Mexico	12.85	11.60	11.0%	12.85	11.60	--	--
Utah	W	13.93	W	12.92	13.93	W	--
Wyoming	12.77	11.05	16.0%	12.77	11.05	--	--
Pacific Contiguous	W	W	W	12.46	--	W	W
California	--	--	--	--	--	--	--
Oregon	12.46	--	--	12.46	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.32	10.18	W	W
Alaska	15.93	--	--	15.93	--	--	--
Hawaii	W	W	W	10.31	10.18	W	W
U.S. Total	W	11.83	W	10.90	11.54	W	12.97

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	12.02	8.59	40.0%	13.97	9.58	11.93	7.95
Connecticut	W	8.77	W	--	--	W	8.77
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	13.97	9.54	46.0%	13.97	9.54	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	10.98	W	9.22	8.40	W	11.08
New Jersey	W	W	W	--	--	W	W
New York	12.97	11.99	8.2%	9.22	8.40	20.68	12.30
Pennsylvania	W	W	W	--	--	W	W
East North Central	12.11	W	W	12.07	10.13	12.18	W
Illinois	12.47	10.40	20.0%	11.83	10.11	12.50	10.41
Indiana	11.95	9.96	20.0%	11.95	9.96	--	--
Michigan	11.62	9.93	17.0%	11.62	9.93	--	--
Ohio	12.34	W	W	12.98	10.17	12.03	W
Wisconsin	11.79	11.60	1.6%	11.79	11.60	--	--
West North Central	12.09	9.76	24.0%	12.09	9.76	--	--
Iowa	12.32	10.15	21.0%	12.32	10.15	--	--
Kansas	11.98	9.99	20.0%	11.98	9.99	--	--
Minnesota	11.97	10.53	14.0%	11.97	10.53	--	--
Missouri	12.08	9.84	23.0%	12.08	9.84	--	--
Nebraska	11.92	10.53	13.0%	11.92	10.53	--	--
North Dakota	12.00	8.81	36.0%	12.00	8.81	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.12	9.99	21.0%	12.14	10.07	11.90	9.58
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.33	W	W	12.33	13.31	--	W
Georgia	W	8.83	W	11.40	9.12	W	7.68
Maryland	10.75	8.39	28.0%	--	--	10.75	8.39
North Carolina	W	W	W	12.02	9.53	W	W
South Carolina	12.52	10.60	18.0%	12.52	10.60	--	--
Virginia	W	W	W	10.84	7.92	W	W
West Virginia	12.42	10.64	17.0%	12.42	10.64	--	--
East South Central	W	W	W	11.85	9.68	W	W
Alabama	W	W	W	12.60	9.24	W	W
Kentucky	11.89	9.92	20.0%	11.89	9.92	--	--
Mississippi	11.62	8.64	34.0%	11.62	8.64	--	--
Tennessee	11.61	9.73	19.0%	11.61	9.73	--	--
West South Central	12.19	10.03	22.0%	11.84	9.86	12.42	10.56
Arkansas	W	W	W	11.72	9.52	W	W
Louisiana	--	W	W	--	9.54	--	W
Oklahoma	12.91	11.93	8.2%	12.91	11.93	--	--
Texas	W	W	W	11.80	10.30	W	W
Mountain	13.25	W	W	13.25	10.71	13.22	W
Arizona	12.83	10.71	20.0%	12.83	10.71	--	--
Colorado	12.52	9.46	32.0%	12.52	9.46	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.95	11.77	W	W
New Mexico	12.67	10.50	21.0%	12.67	10.50	--	--
Utah	W	11.02	W	13.88	11.02	W	--
Wyoming	13.69	10.83	26.0%	13.69	10.83	--	--
Pacific Contiguous	W	W	W	13.16	--	W	W
California	--	--	--	--	--	--	--
Oregon	13.16	--	--	13.16	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.76	7.91	W	W
Alaska	16.16	12.41	30.0%	16.16	12.41	--	--
Hawaii	W	W	W	10.75	7.91	W	W
U.S. Total	11.45	8.95	28.0%	11.28	8.81	12.05	9.42

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.46	W	W	1.46	1.39	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.42	1.32	7.6%	1.42	1.32	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.80	1.68	7.1%	1.80	1.68	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.41	1.52	59.0%	2.41	1.52	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.41	1.52	59.0%	2.41	1.52	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.15	1.36	58.0%	2.15	1.36	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.15	1.36	58.0%	2.15	1.36	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.11	W	W	2.11	1.43	--	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:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 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	1.17	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.46	1.30	12.0%	1.46	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.80	1.70	5.9%	1.80	1.70	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.54	1.30	95.0%	2.54	1.30	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.54	1.30	95.0%	2.54	1.30	--	--
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	2.13	1.16	84.0%	2.13	1.16	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.13	1.16	84.0%	2.13	1.16	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.07	1.35	53.0%	2.07	1.23	--	2.50

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017	July 2016	Percentage Change	July 2017	July 2016	July 2017	July 2016
New England	W	W	W	3.08	3.53	W	W
Connecticut	W	3.06	W	--	--	W	3.06
Maine	W	W	W	--	--	W	W
Massachusetts	2.50	2.78	-10.0%	3.06	3.31	2.49	2.76
New Hampshire	W	W	W	4.97	4.00	W	W
Rhode Island	W	2.84	W	--	--	W	2.84
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.41	2.19	10.0%	2.74	2.68	2.36	2.13
New Jersey	2.36	2.02	17.0%	--	--	2.36	2.02
New York	2.67	2.68	-0.4%	2.74	2.68	2.64	2.68
Pennsylvania	2.19	1.80	22.0%	--	--	2.19	1.80
East North Central	3.00	2.92	2.7%	3.04	3.00	2.97	2.85
Illinois	3.19	2.97	7.4%	3.41	3.18	3.19	2.95
Indiana	W	W	W	3.07	3.25	W	W
Michigan	3.10	2.94	5.4%	3.25	3.05	3.03	2.84
Ohio	2.75	2.65	3.8%	2.59	2.54	2.80	2.70
Wisconsin	W	W	W	3.17	2.95	W	W
West North Central	W	W	W	3.04	3.02	W	W
Iowa	2.76	2.69	2.6%	2.76	2.69	--	--
Kansas	3.13	3.17	-1.3%	3.13	3.17	--	--
Minnesota	W	W	W	3.18	3.16	W	W
Missouri	3.03	W	W	3.03	3.03	--	W
Nebraska	3.23	3.19	1.3%	3.23	3.19	--	--
North Dakota	6.07	2.89	110.0%	6.07	2.89	--	--
South Dakota	--	2.72	--	--	2.72	--	--
South Atlantic	3.78	3.37	12.0%	3.88	3.45	3.02	2.90
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.65	W	4.17	3.66	W	3.51
Georgia	W	3.21	W	3.50	3.26	W	3.06
Maryland	3.28	2.84	15.0%	--	--	3.28	2.84
North Carolina	W	W	W	3.75	3.72	W	W
South Carolina	W	W	W	3.53	3.27	W	W
Virginia	2.94	W	W	3.09	2.74	2.56	W
West Virginia	W	3.00	W	2.98	2.75	W	3.25
East South Central	3.14	2.97	5.7%	3.11	2.94	3.22	3.06
Alabama	W	W	W	3.30	3.06	W	W
Kentucky	W	W	W	3.36	3.22	W	W
Mississippi	W	W	W	3.02	2.90	W	W
Tennessee	2.91	2.72	7.0%	2.91	2.72	--	--
West South Central	3.03	2.90	4.5%	3.10	2.97	2.99	2.84
Arkansas	W	W	W	2.99	3.30	W	W
Louisiana	W	3.00	W	3.24	3.02	W	2.86
Oklahoma	W	W	W	2.97	2.91	W	W
Texas	3.02	2.87	5.2%	3.08	2.92	3.00	2.84
Mountain	3.24	3.22	0.6%	3.24	3.26	3.24	2.87
Arizona	W	W	W	3.45	3.57	W	W
Colorado	W	W	W	3.13	3.07	W	W
Idaho	--	2.83	--	--	2.83	--	--
Montana	1.46	--	--	1.46	--	--	--
Nevada	3.15	3.23	-2.5%	3.15	3.23	--	--
New Mexico	3.37	3.15	7.0%	3.37	3.15	--	--
Utah	W	W	W	2.95	2.87	W	W
Wyoming	W	--	W	2.89	--	W	--
Pacific Contiguous	3.47	3.18	9.1%	3.82	3.41	3.15	2.98
California	W	3.36	W	4.00	3.72	W	3.12
Oregon	W	W	W	2.24	2.48	W	W
Washington	3.67	W	W	3.67	3.33	--	W
Pacific Noncontiguous	8.09	6.76	20.0%	8.09	6.76	--	--
Alaska	8.09	6.76	20.0%	8.09	6.76	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.21	2.98	7.7%	3.48	3.20	2.86	2.67

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) July 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2017 YTD	July 2016 YTD	Percentage Change	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	W	3.09	W	3.49	3.35	W	3.09
Connecticut	W	3.69	W	--	--	W	3.69
Maine	W	W	W	--	--	W	W
Massachusetts	3.37	2.70	25.0%	3.25	3.23	3.37	2.70
New Hampshire	W	W	W	3.87	3.64	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.16	2.18	45.0%	3.73	2.63	3.08	2.13
New Jersey	3.02	2.10	44.0%	--	--	3.02	2.10
New York	3.59	2.59	39.0%	3.73	2.63	3.52	2.57
Pennsylvania	2.83	1.84	54.0%	--	--	2.83	1.84
East North Central	3.14	2.40	31.0%	3.16	2.52	3.12	2.28
Illinois	3.12	2.57	21.0%	4.01	2.82	3.11	2.54
Indiana	W	W	W	3.08	2.60	W	W
Michigan	3.21	2.44	32.0%	3.37	2.62	3.16	2.34
Ohio	3.02	2.05	47.0%	2.92	2.13	3.06	2.02
Wisconsin	W	W	W	3.43	2.55	W	W
West North Central	W	2.67	W	3.33	2.69	W	2.58
Iowa	2.75	2.42	14.0%	2.75	2.42	--	--
Kansas	3.63	3.16	15.0%	3.63	3.16	--	--
Minnesota	W	W	W	3.41	2.79	W	W
Missouri	3.08	W	W	3.08	2.59	--	W
Nebraska	3.83	2.94	30.0%	3.83	2.94	--	--
North Dakota	4.86	2.46	98.0%	4.86	2.46	--	--
South Dakota	--	2.19	--	--	2.19	--	--
South Atlantic	3.91	3.24	21.0%	3.99	3.35	3.25	2.45
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.59	W	4.14	3.61	W	2.56
Georgia	W	2.69	W	3.68	2.74	W	2.49
Maryland	W	2.90	W	--	--	W	2.90
North Carolina	W	W	W	4.04	3.55	W	W
South Carolina	W	W	W	3.53	3.12	W	W
Virginia	3.49	W	W	3.71	2.74	2.77	W
West Virginia	W	W	W	3.05	2.31	W	W
East South Central	3.30	2.55	29.0%	3.29	2.57	3.31	2.52
Alabama	W	W	W	3.45	2.64	W	W
Kentucky	W	W	W	3.75	2.89	W	W
Mississippi	W	W	W	3.20	2.55	W	W
Tennessee	3.09	2.31	34.0%	3.09	2.31	--	--
West South Central	3.14	2.36	33.0%	3.26	2.46	3.07	2.28
Arkansas	W	W	W	3.23	2.69	W	W
Louisiana	W	2.37	W	3.32	2.41	W	2.20
Oklahoma	W	W	W	3.23	2.49	W	W
Texas	3.10	2.34	32.0%	3.20	2.45	3.08	2.29
Mountain	3.55	2.71	31.0%	3.56	2.72	3.44	2.67
Arizona	W	W	W	3.77	2.88	W	W
Colorado	W	W	W	3.48	2.88	W	W
Idaho	--	2.57	--	--	2.57	--	--
Montana	2.04	--	--	2.04	--	--	--
Nevada	3.51	2.64	33.0%	3.51	2.64	--	--
New Mexico	3.46	2.66	30.0%	3.46	2.66	--	--
Utah	W	W	W	3.46	2.35	W	W
Wyoming	W	7.04	W	3.66	7.04	W	--
Pacific Contiguous	3.69	2.75	34.0%	4.02	3.06	3.41	2.49
California	W	2.84	W	4.08	3.24	W	2.56
Oregon	W	W	W	2.86	2.14	W	W
Washington	4.03	W	W	4.03	3.30	--	W
Pacific Noncontiguous	8.09	6.52	24.0%	8.09	6.52	--	--
Alaska	8.09	6.52	24.0%	8.09	6.52	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.48	2.67	30.0%	3.69	2.91	3.20	2.35

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

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, July 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	1,282	3.16	9.1	0	--	--	0	--	--
New Jersey	56	1.72	7.7	0	--	--	0	--	--
New York	2	0.73	17.0	0	--	--	0	--	--
Pennsylvania	1,224	3.23	9.1	0	--	--	0	--	--
East North Central	5,127	3.12	10.1	6,460	0.23	4.7	0	--	--
Illinois	846	3.66	20.5	2,719	0.22	4.6	0	--	--
Indiana	2,228	2.78	8.6	76	0.19	4.4	0	--	--
Michigan	102	1.86	7.0	1,911	0.25	4.6	0	--	--
Ohio	1,920	3.36	8.4	0	--	--	0	--	--
Wisconsin	32	3.02	8.0	1,754	0.23	4.9	0	--	--
West North Central	103	3.07	9.2	8,534	0.26	4.9	2,142	0.85	9.4
Iowa	40	3.47	8.3	1,538	0.23	4.6	0	--	--
Kansas	15	2.96	13.1	1,091	0.32	4.9	0	--	--
Minnesota	0	--	--	1,040	0.34	6.1	0	--	--
Missouri	49	2.78	8.7	3,374	0.22	4.6	0	--	--
Nebraska	0	--	--	1,363	0.27	5.1	0	--	--
North Dakota	0	--	--	0	--	--	2,142	0.85	9.4
South Dakota	0	--	--	127	0.39	5.5	0	--	--
South Atlantic	6,747	2.19	10.4	796	0.35	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,311	2.10	8.6	0	--	--	0	--	--
Georgia	628	2.45	8.1	795	0.35	4.8	0	--	--
Maryland	231	2.38	11.3	0	0.20	4.8	0	--	--
North Carolina	1,272	1.72	9.8	0	--	--	0	--	--
South Carolina	568	1.49	9.5	0	--	--	0	--	--
Virginia	468	1.15	16.3	0	--	--	0	--	--
West Virginia	2,268	2.78	11.4	0	--	--	0	--	--
East South Central	3,652	2.49	8.9	2,019	0.25	4.9	267	0.49	14.0
Alabama	723	1.45	9.9	962	0.27	4.9	0	--	--
Kentucky	2,156	2.97	9.0	605	0.22	4.8	0	--	--
Mississippi	92	0.94	6.6	139	0.27	4.9	267	0.49	14.0
Tennessee	681	2.25	7.8	313	0.22	4.6	0	--	--
West South Central	73	1.79	20.4	8,029	0.26	5.1	3,008	1.06	16.7
Arkansas	6	0.66	9.0	1,370	0.22	4.6	0	--	--
Louisiana	19	2.71	7.8	541	0.27	4.9	77	0.54	17.0
Oklahoma	48	1.53	28.4	957	0.23	4.8	0	--	--
Texas	0	--	--	5,161	0.27	5.3	2,931	1.07	16.7
Mountain	2,296	0.58	13.5	5,462	0.49	8.6	24	0.66	9.3
Arizona	683	0.50	10.3	738	0.52	9.2	0	--	--
Colorado	122	0.43	10.5	1,311	0.30	5.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	806	0.68	9.8	24	0.66	9.3
Nevada	0	--	--	106	0.37	7.4	0	--	--
New Mexico	543	0.81	21.4	428	0.75	22.0	0	--	--
Utah	948	0.53	12.0	66	1.01	8.6	0	--	--
Wyoming	0	--	--	2,007	0.48	7.2	0	--	--
Pacific Contiguous	44	0.49	11.4	347	0.47	9.3	0	--	--
California	44	0.49	11.4	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	347	0.47	9.3	0	--	--
Pacific Noncontiguous	0	--	--	123	0.13	4.1	7	0.12	7.2
Alaska	0	--	--	0	--	--	7	0.12	7.2
Hawaii	0	--	--	123	0.13	4.1	0	--	--
U.S. Total	19,327	2.38	10.3	31,770	0.30	5.6	5,448	0.95	13.6

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, July 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	2,963	2.89	8.7	4,248	0.24	4.7	0	--	--
Illinois	223	3.04	12.4	507	0.22	4.6	0	--	--
Indiana	2,106	2.74	8.5	76	0.19	4.4	0	--	--
Michigan	47	2.58	7.6	1,911	0.25	4.6	0	--	--
Ohio	556	3.36	8.2	0	--	--	0	--	--
Wisconsin	32	3.02	8.0	1,754	0.23	4.9	0	--	--
West North Central	64	2.82	9.7	8,254	0.26	4.9	2,142	0.85	9.4
Iowa	0	--	--	1,381	0.23	4.6	0	--	--
Kansas	15	2.96	13.1	1,091	0.32	4.9	0	--	--
Minnesota	0	--	--	981	0.35	6.1	0	--	--
Missouri	49	2.78	8.7	3,374	0.22	4.6	0	--	--
Nebraska	0	--	--	1,301	0.27	5.1	0	--	--
North Dakota	0	--	--	0	--	--	2,142	0.85	9.4
South Dakota	0	--	--	127	0.39	5.5	0	--	--
South Atlantic	5,920	2.12	10.2	795	0.35	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,291	2.13	8.6	0	--	--	0	--	--
Georgia	621	2.47	8.1	795	0.35	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,254	1.73	9.9	0	--	--	0	--	--
South Carolina	568	1.49	9.5	0	--	--	0	--	--
Virginia	419	1.18	17.3	0	--	--	0	--	--
West Virginia	1,767	2.67	10.9	0	--	--	0	--	--
East South Central	3,579	2.52	8.9	2,019	0.25	4.9	0	--	--
Alabama	723	1.45	9.9	962	0.27	4.9	0	--	--
Kentucky	2,156	2.97	9.0	605	0.22	4.8	0	--	--
Mississippi	92	0.94	6.6	139	0.27	4.9	0	--	--
Tennessee	608	2.44	7.9	313	0.22	4.6	0	--	--
West South Central	19	2.71	7.8	4,773	0.24	4.9	634	1.40	19.7
Arkansas	0	--	--	1,173	0.22	4.7	0	--	--
Louisiana	19	2.71	7.8	296	0.25	4.9	77	0.54	17.0
Oklahoma	0	--	--	900	0.22	4.8	0	--	--
Texas	0	--	--	2,405	0.26	5.1	557	1.53	20.1
Mountain	2,276	0.58	13.5	4,565	0.46	8.4	24	0.66	9.3
Arizona	683	0.50	10.3	738	0.52	9.2	0	--	--
Colorado	122	0.43	10.5	1,311	0.30	5.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	24	0.66	9.3
Nevada	0	--	--	61	0.39	9.1	0	--	--
New Mexico	543	0.81	21.4	428	0.75	22.0	0	--	--
Utah	928	0.53	12.0	66	1.01	8.6	0	--	--
Wyoming	0	--	--	1,962	0.48	7.2	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	7	0.12	7.2
Alaska	0	--	--	0	--	--	7	0.12	7.2
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	14,821	2.16	10.0	24,655	0.29	5.5	2,807	0.96	11.6

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, July 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	1,271	3.16	9.1	0	--	--	0	--	--
New Jersey	56	1.72	7.7	0	--	--	0	--	--
New York	2	0.73	17.0	0	--	--	0	--	--
Pennsylvania	1,213	3.24	9.1	0	--	--	0	--	--
East North Central	2,055	3.43	12.1	2,165	0.20	4.6	0	--	--
Illinois	516	3.98	27.8	2,165	0.20	4.6	0	--	--
Indiana	122	3.56	9.6	0	--	--	0	--	--
Michigan	53	1.14	6.4	0	--	--	0	--	--
Ohio	1,364	3.35	8.5	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	751	2.87	12.3	0	0.20	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	215	2.42	10.5	0	0.20	4.8	0	--	--
North Carolina	2	0.75	5.7	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	33	1.03	10.0	0	--	--	0	--	--
West Virginia	501	3.21	13.2	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	267	0.49	14.0
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	267	0.49	14.0
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	48	1.53	28.4	3,241	0.28	5.3	2,374	0.97	16.0
Arkansas	0	--	--	197	0.23	4.3	0	--	--
Louisiana	0	--	--	245	0.30	5.0	0	--	--
Oklahoma	48	1.53	28.4	42	0.31	5.0	0	--	--
Texas	0	--	--	2,756	0.28	5.4	2,374	0.97	16.0
Mountain	0	--	--	897	0.65	9.5	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	806	0.68	9.8	0	--	--
Nevada	0	--	--	45	0.34	4.9	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.51	7.3	0	--	--
Pacific Contiguous	0	--	--	347	0.47	9.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	347	0.47	9.3	0	--	--
Pacific Noncontiguous	0	--	--	123	0.13	4.1	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	123	0.13	4.1	0	--	--
U.S. Total	4,127	3.22	11.3	6,773	0.31	5.8	2,641	0.93	15.9

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

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, July 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	11	2.25	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.25	7.5	0	--	--	0	--	--
East North Central	109	3.66	8.5	47	0.80	6.5	0	--	--
Illinois	107	3.70	8.5	47	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.71	7.9	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	40	3.47	8.3	279	0.22	4.7	0	--	--
Iowa	40	3.47	8.3	157	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	59	0.22	5.4	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	63	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	76	0.97	10.3	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	21	0.72	7.8	0	--	--	0	--	--
Georgia	7	1.05	10.3	0	--	--	0	--	--
Maryland	15	1.73	22.6	0	--	--	0	--	--
North Carolina	17	0.86	6.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	16	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	73	0.88	7.1	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	73	0.88	7.1	0	--	--	0	--	--
West South Central	6	0.66	9.0	15	0.20	4.8	0	--	--
Arkansas	6	0.66	9.0	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	15	0.20	4.8	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	20	0.49	11.1	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	20	0.49	11.1	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	44	0.49	11.4	0	--	--	0	--	--
California	44	0.49	11.4	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	379	1.85	9.0	342	0.30	4.9	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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 - July 2017 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779
Year 2015					
January	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
Year 2016					
January	130,764	109,870	75,892	660	317,186
February	115,820	102,877	73,909	647	293,253
March	100,123	105,180	75,907	610	281,819
April	88,107	101,464	75,801	595	265,967
May	93,981	107,900	78,246	582	280,708
June	124,888	119,673	80,234	632	325,427
July	153,976	129,265	83,369	648	367,258
August	155,851	134,078	85,061	632	375,622
Sept	129,111	122,961	79,719	637	332,428
October	101,137	112,346	77,960	613	292,056
November	92,797	104,454	75,048	592	272,891
December	120,840	109,548	75,124	652	306,163
Year 2017					
January	128,997	109,225	75,596	666	314,483
February	101,141	99,478	71,741	636	272,996
March	103,210	106,991	77,018	644	287,863
April	90,780	101,566	75,624	590	268,560
May	98,757	109,757	79,838	583	288,934
June	121,778	119,028	82,083	619	323,508
July	148,865	128,049	84,027	630	361,570
Year to Date					
2015	830,467	786,246	573,436	4,538	2,194,687
2016	807,658	776,229	543,357	4,373	2,131,618
2017	793,527	774,094	545,925	4,368	2,117,913
Rolling 12 Months Ending in July					
2016	1,381,287	1,350,735	956,429	7,472	3,695,923
2017	1,393,263	1,357,481	938,836	7,493	3,697,074

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 - July 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435
Year 2015					
January	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
Year 2016					
January	15,666	11,005	4,860	62	31,594
February	14,060	10,491	4,720	61	29,332
March	12,585	10,682	4,908	58	28,233
April	10,955	10,275	4,849	56	26,136
May	12,023	11,055	5,134	53	28,266
June	15,882	12,677	5,639	61	34,259
July	19,522	13,732	6,025	62	39,341
August	20,104	14,355	6,152	63	40,674
Sept	16,611	13,157	5,697	63	35,528
October	12,599	11,759	5,236	58	29,653
November	11,828	10,701	4,995	54	27,577
December	14,750	11,047	4,984	61	30,843
Year 2017					
January	15,758	11,126	4,964	62	31,910
February	12,961	10,424	4,755	60	28,201
March	13,315	11,210	5,189	61	29,774
April	11,525	10,564	4,992	56	27,137
May	12,857	11,608	5,434	56	29,954
June	16,098	13,078	5,926	63	35,166
July	19,533	14,079	6,160	64	39,836
Year to Date					
2015	104,451	83,650	39,610	462	228,173
2016	100,693	79,918	36,136	413	217,161
2017	102,047	82,089	37,421	422	221,979
Rolling 12 Months Ending in July					
2016	173,866	141,050	64,692	722	380,329
2017	177,939	143,108	64,486	720	386,253

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 - July 2017 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28
Year 2015					
January	12.10	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
Year 2016					
January	11.98	10.02	6.40	9.41	9.96
February	12.14	10.20	6.39	9.49	10.00
March	12.57	10.16	6.47	9.43	10.02
April	12.43	10.13	6.40	9.41	9.83
May	12.79	10.25	6.56	9.13	10.07
June	12.72	10.59	7.03	9.59	10.53
July	12.68	10.62	7.23	9.63	10.71
August	12.90	10.71	7.23	9.89	10.83
Sept	12.87	10.70	7.15	9.83	10.69
October	12.46	10.47	6.72	9.43	10.15
November	12.75	10.24	6.66	9.04	10.11
December	12.21	10.08	6.63	9.40	10.07
Year 2017					
January	12.22	10.19	6.57	9.32	10.15
February	12.82	10.48	6.63	9.47	10.33
March	12.90	10.48	6.74	9.48	10.34
April	12.70	10.40	6.60	9.44	10.10
May	13.02	10.58	6.81	9.58	10.37
June	13.22	10.99	7.22	10.21	10.87
July	13.12	11.00	7.33	10.19	11.02
Year to Date					
2015	12.58	10.64	6.91	10.18	10.40
2016	12.47	10.30	6.65	9.45	10.19
2017	12.86	10.60	6.85	9.67	10.48
Rolling 12 Months Ending in July					
2016	12.59	10.44	6.76	9.66	10.29
2017	12.77	10.54	6.87	9.61	10.45

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, July 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	4,527	4,541	4,786	4,828	1,480	1,502	45	45	10,838	10,917
Connecticut	1,272	1,241	1,146	1,185	273	287	15	15	2,706	2,728
Maine	377	373	349	343	219	221	0	0	946	937
Massachusetts	1,977	1,992	2,375	2,338	632	624	28	28	5,012	4,982
New Hampshire	408	403	397	409	171	176	0	0	976	988
Rhode Island	320	349	342	369	64	73	2	2	729	793
Vermont	172	183	177	184	121	121	0	0	470	489
Middle Atlantic	13,716	14,350	14,694	14,914	6,281	6,234	313	332	35,005	35,829
New Jersey	3,517	3,783	3,633	3,773	614	623	25	26	7,789	8,205
New York	5,194	5,371	7,094	7,222	1,529	1,495	230	238	14,046	14,326
Pennsylvania	5,005	5,196	3,968	3,918	4,139	4,116	59	68	13,170	13,297
East North Central	19,153	20,307	17,192	17,499	16,071	16,337	44	53	52,460	54,196
Illinois	5,076	5,274	4,718	4,771	3,714	3,906	39	48	13,548	14,000
Indiana	3,274	3,390	2,280	2,302	3,565	3,623	2	2	9,120	9,317
Michigan	3,481	3,767	3,665	3,671	2,547	2,623	1	0	9,694	10,061
Ohio	5,204	5,600	4,359	4,571	4,092	4,065	3	3	13,658	14,239
Wisconsin	2,118	2,276	2,170	2,184	2,152	2,120	0	0	6,441	6,580
West North Central	10,869	10,799	9,803	9,637	8,012	7,524	4	4	28,687	27,963
Iowa	1,433	1,420	1,111	1,088	1,997	1,799	0	0	4,540	4,307
Kansas	1,665	1,702	1,578	1,570	1,013	933	0	0	4,257	4,205
Minnesota	2,050	2,075	2,159	2,155	1,817	1,778	2	2	6,028	6,010
Missouri	3,880	3,811	3,071	3,016	1,058	1,064	2	2	8,010	7,892
Nebraska	1,071	1,053	913	893	1,173	1,074	0	0	3,157	3,019
North Dakota	354	338	522	495	693	630	0	0	1,569	1,463
South Dakota	415	401	449	421	261	246	0	0	1,125	1,067
South Atlantic	37,946	40,082	29,964	30,753	12,026	12,162	120	121	80,055	83,118
Delaware	498	502	408	387	194	213	0	0	1,100	1,102
District of Columbia	288	265	770	794	20	37	35	35	1,113	1,131
Florida	12,907	13,776	8,969	9,232	1,456	1,445	8	9	23,340	24,461
Georgia	6,219	6,766	4,565	4,696	2,732	2,727	14	15	13,530	14,203
Maryland	2,854	3,022	2,844	2,839	360	338	45	48	6,104	6,247
North Carolina	6,147	6,349	4,683	4,870	2,333	2,482	0	1	13,163	13,702
South Carolina	3,349	3,622	2,175	2,320	2,414	2,369	0	0	7,938	8,311
Virginia	4,736	4,771	4,857	4,892	1,377	1,490	17	15	10,987	11,167
West Virginia	946	1,010	693	723	1,141	1,062	0	0	2,780	2,794
East South Central	12,181	13,016	8,666	9,016	8,686	8,387	0	0	29,533	30,419
Alabama	3,430	3,656	2,229	2,310	2,906	2,820	0	0	8,564	8,786
Kentucky	2,694	2,759	1,825	1,870	2,387	2,279	0	0	6,906	6,908
Mississippi	1,945	2,133	1,356	1,405	1,444	1,430	0	0	4,745	4,968
Tennessee	4,113	4,469	3,256	3,430	1,949	1,859	0	0	9,318	9,757
West South Central	24,527	26,143	18,621	18,950	15,562	14,844	17	17	58,727	59,953
Arkansas	1,800	2,073	1,168	1,237	1,500	1,491	0	0	4,468	4,801
Louisiana	3,290	3,580	2,352	2,451	2,890	2,834	1	1	8,533	8,866
Oklahoma	2,768	2,948	2,016	2,009	1,533	1,512	0	0	6,317	6,468
Texas	16,669	17,543	13,085	13,253	9,639	9,008	16	15	39,408	39,818
Mountain	12,095	11,676	9,583	9,348	7,756	8,009	12	11	29,445	29,045
Arizona	4,645	4,682	3,053	3,081	1,165	1,343	1	1	8,863	9,107
Colorado	2,048	2,070	1,939	1,963	1,428	1,375	6	5	5,421	5,413
Idaho	810	705	607	541	1,247	1,200	0	0	2,664	2,447
Montana	407	376	451	414	395	378	0	0	1,253	1,168
Nevada	2,002	1,736	1,238	1,042	1,139	1,365	1	1	4,380	4,144
New Mexico	789	778	862	902	687	659	0	0	2,339	2,339
Utah	1,171	1,113	1,118	1,094	792	832	5	5	3,086	3,043
Wyoming	223	216	314	312	902	857	0	0	1,439	1,385
Pacific Contiguous	13,469	12,689	14,252	13,826	7,713	7,931	75	65	35,509	34,509
California	9,505	8,897	10,311	10,025	4,455	4,706	72	62	24,342	23,690
Oregon	1,496	1,382	1,474	1,381	1,113	1,095	2	2	4,085	3,859
Washington	2,468	2,410	2,468	2,420	2,145	2,130	1	1	7,081	6,960
Pacific Noncontiguous	381	372	489	496	440	440	0	0	1,310	1,308
Alaska	144	142	217	221	117	111	0	0	477	474
Hawaii	238	231	272	275	323	329	0	0	833	834
U.S. Total	148,865	153,976	128,049	129,265	84,027	83,369	630	648	361,570	367,258

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	26,849	26,543	29,737	30,092	9,478	9,870	323	324	66,387	66,829
Connecticut	7,299	7,248	7,078	7,334	1,774	1,855	101	104	16,252	16,542
Maine	2,757	2,656	2,320	2,270	1,504	1,631	0	0	6,581	6,556
Massachusetts	11,263	11,124	14,578	14,632	3,860	3,970	206	204	29,907	29,930
New Hampshire	2,612	2,558	2,532	2,573	1,109	1,141	0	0	6,253	6,272
Rhode Island	1,735	1,759	2,087	2,119	429	452	16	16	4,267	4,346
Vermont	1,183	1,199	1,142	1,164	804	821	0	0	3,129	3,184
Middle Atlantic	74,818	75,893	89,584	90,486	41,147	41,084	2,242	2,236	207,791	209,699
New Jersey	16,167	16,523	21,898	22,094	4,115	4,013	178	179	42,358	42,809
New York	28,226	28,420	42,834	43,376	9,676	9,936	1,612	1,604	82,349	83,336
Pennsylvania	30,425	30,949	24,851	25,016	27,356	27,135	452	453	83,084	83,553
East North Central	104,421	108,463	105,693	106,806	106,126	107,887	325	342	316,565	323,499
Illinois	25,421	26,569	28,727	29,265	24,013	24,378	285	301	78,446	80,512
Indiana	18,067	18,945	13,691	13,872	23,601	24,659	12	13	55,371	57,488
Michigan	19,360	19,850	22,527	22,433	17,050	17,775	3	3	58,940	60,060
Ohio	28,992	30,403	27,029	27,476	27,555	27,336	25	26	83,601	85,241
Wisconsin	12,582	12,697	13,718	13,762	13,907	13,740	0	0	40,207	40,199
West North Central	60,034	59,970	58,829	59,009	50,350	48,554	28	26	169,242	167,559
Iowa	8,267	8,227	7,029	7,028	12,965	12,326	0	0	28,261	27,581
Kansas	7,541	7,816	8,854	8,959	6,289	6,156	0	0	22,685	22,930
Minnesota	12,819	12,612	13,379	13,468	11,969	11,383	14	14	38,180	37,476
Missouri	19,842	20,064	17,565	17,774	6,804	6,998	14	12	44,224	44,848
Nebraska	5,904	5,789	5,516	5,492	6,223	5,949	0	0	17,642	17,229
North Dakota	2,850	2,741	3,653	3,510	4,502	4,219	0	0	11,005	10,470
South Dakota	2,811	2,721	2,834	2,780	1,599	1,523	0	0	7,244	7,024
South Atlantic	199,270	207,793	178,210	179,614	79,764	80,073	757	792	458,002	468,273
Delaware	2,708	2,732	2,395	2,459	1,209	1,174	0	0	6,313	6,365
District of Columbia	1,417	1,424	4,639	4,929	105	125	194	198	6,354	6,676
Florida	67,541	69,133	54,286	54,150	9,579	9,575	53	56	131,460	132,915
Georgia	31,322	33,284	26,737	27,322	18,155	18,452	98	100	76,312	79,158
Maryland	15,432	16,194	16,760	17,046	2,181	2,165	309	327	34,683	35,732
North Carolina	32,165	33,972	27,496	27,869	15,541	15,580	2	4	75,204	77,425
South Carolina	16,741	17,928	12,416	12,801	15,616	15,495	0	0	44,773	46,224
Virginia	25,745	26,340	29,113	28,497	9,689	10,063	101	108	64,648	65,008
West Virginia	6,199	6,786	4,368	4,541	7,688	7,444	0	0	18,255	18,771
East South Central	64,870	68,652	51,029	52,113	57,467	56,317	0	0	173,366	177,082
Alabama	17,349	18,580	12,923	13,221	19,271	19,027	0	0	49,543	50,828
Kentucky	14,660	15,479	10,882	11,105	15,997	15,785	0	0	41,539	42,369
Mississippi	9,939	10,452	7,811	7,827	9,608	9,554	0	0	27,357	27,832
Tennessee	22,923	24,141	19,412	19,961	12,592	11,951	0	0	54,927	56,053
West South Central	118,393	121,135	109,532	109,182	103,725	99,198	109	108	331,759	329,623
Arkansas	9,713	10,130	6,728	6,797	9,638	9,166	0	0	26,080	26,093
Louisiana	16,446	17,100	13,872	13,988	19,881	19,407	8	7	50,207	50,503
Oklahoma	12,798	13,279	11,533	11,580	10,090	9,842	0	0	34,421	34,701
Texas	79,436	80,626	77,398	76,817	64,116	60,782	102	100	221,051	218,326
Mountain	57,644	56,354	55,845	54,680	47,397	48,531	82	78	160,967	159,642
Arizona	19,906	19,528	17,044	17,051	7,886	8,752	3	3	44,840	45,335
Colorado	10,927	11,019	11,753	11,753	8,883	8,771	39	38	31,602	31,582
Idaho	5,143	4,746	3,699	3,589	5,168	5,133	0	0	14,010	13,467
Montana	3,104	2,850	2,934	2,842	2,493	2,457	0	0	8,531	8,148
Nevada	7,614	7,263	6,452	5,540	7,294	8,034	5	5	21,366	20,842
New Mexico	3,877	3,926	5,142	5,137	4,288	4,294	0	0	13,307	13,358
Utah	5,398	5,379	6,645	6,622	5,432	5,306	34	32	17,509	17,339
Wyoming	1,673	1,643	2,176	2,145	5,952	5,783	0	0	9,802	9,571
Pacific Contiguous	84,517	80,241	92,272	90,864	47,595	48,947	502	468	224,885	220,519
California	50,430	49,107	65,223	64,677	26,775	28,117	484	450	142,912	142,351
Oregon	11,784	10,824	9,550	9,269	6,853	6,645	15	14	28,202	26,752
Washington	22,303	20,310	17,499	16,918	13,967	14,185	3	3	53,772	51,416
Pacific Noncontiguous	2,710	2,614	3,364	3,383	2,876	2,897	0	0	8,950	8,893
Alaska	1,223	1,153	1,607	1,600	800	782	0	0	3,630	3,535
Hawaii	1,487	1,460	1,756	1,783	2,076	2,115	0	0	5,319	5,358
U.S. Total	793,527	807,658	774,094	776,229	545,925	543,357	4,368	4,373	2,117,913	2,131,618

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	874	831	751	729	187	184	4	4	1,815	1,747
Connecticut	257	245	187	184	38	37	2	1	484	468
Maine	60	59	43	41	20	20	0	0	122	120
Massachusetts	393	362	385	368	87	83	2	2	866	815
New Hampshire	78	73	58	57	21	21	0	0	156	151
Rhode Island	55	60	52	52	9	10	0	0	117	122
Vermont	31	32	26	27	12	12	0	0	69	71
Middle Atlantic	2,257	2,290	1,967	1,986	432	433	38	37	4,694	4,746
New Jersey	563	611	471	499	67	69	2	2	1,104	1,182
New York	977	964	1,142	1,132	90	83	31	30	2,241	2,209
Pennsylvania	716	715	353	354	275	281	4	5	1,349	1,356
East North Central	2,512	2,614	1,716	1,727	1,131	1,150	3	4	5,363	5,494
Illinois	613	636	417	428	233	252	3	3	1,266	1,320
Indiana	388	382	232	220	265	254	0	0	885	856
Michigan	546	579	400	391	188	190	0	0	1,134	1,160
Ohio	655	686	425	440	269	281	0	0	1,349	1,407
Wisconsin	310	331	243	248	176	173	0	0	730	752
West North Central	1,456	1,378	1,057	987	660	603	0	0	3,173	2,969
Iowa	209	200	129	119	168	145	0	0	505	464
Kansas	227	222	169	164	79	70	0	0	475	456
Minnesota	287	274	247	218	147	136	0	0	682	627
Missouri	511	468	331	313	88	85	0	0	929	867
Nebraska	129	127	87	85	97	96	0	0	313	308
North Dakota	41	38	50	46	60	53	0	0	151	138
South Dakota	52	49	44	42	21	19	0	0	117	110
South Atlantic	4,623	4,731	2,844	2,850	831	846	10	10	8,308	8,437
Delaware	63	65	38	37	14	17	0	0	116	119
District of Columbia	35	33	86	90	2	3	3	3	126	129
Florida	1,540	1,540	851	819	117	115	1	1	2,509	2,474
Georgia	783	832	461	470	182	183	1	1	1,427	1,485
Maryland	388	425	294	305	29	25	4	4	714	759
North Carolina	688	710	413	437	161	175	0	0	1,262	1,322
South Carolina	429	456	233	243	157	158	0	0	818	856
Virginia	588	558	404	385	93	100	1	1	1,087	1,044
West Virginia	110	113	64	65	75	71	0	0	249	250
East South Central	1,378	1,410	918	912	543	520	0	0	2,839	2,842
Alabama	430	442	257	257	192	186	0	0	879	884
Kentucky	287	284	176	174	137	132	0	0	600	589
Mississippi	216	218	137	130	91	88	0	0	444	436
Tennessee	445	467	347	351	123	115	0	0	916	933
West South Central	2,646	2,736	1,569	1,477	910	798	1	1	5,127	5,012
Arkansas	192	213	102	102	98	97	0	0	392	412
Louisiana	329	324	215	200	177	136	0	0	721	660
Oklahoma	285	294	167	161	86	78	0	0	537	534
Texas	1,840	1,904	1,085	1,014	550	487	1	1	3,477	3,406
Mountain	1,487	1,411	979	933	556	569	1	1	3,023	2,915
Arizona	592	594	352	346	87	90	0	0	1,031	1,031
Colorado	255	257	201	196	109	102	1	1	566	557
Idaho	86	76	50	44	92	85	0	0	227	205
Montana	47	44	46	43	22	21	0	0	115	107
Nevada	233	186	98	80	86	115	0	0	418	381
New Mexico	107	97	97	94	43	39	0	0	247	231
Utah	140	130	104	100	56	59	0	0	300	289
Wyoming	27	26	31	30	61	58	0	0	119	113
Pacific Contiguous	2,199	2,026	2,164	2,022	816	833	7	6	5,186	4,887
California	1,792	1,645	1,824	1,699	644	661	7	6	4,267	4,011
Oregon	164	149	131	122	72	71	0	0	367	342
Washington	244	231	209	202	100	101	0	0	553	534
Pacific Noncontiguous	102	95	114	109	93	87	0	0	309	292
Alaska	32	30	42	41	20	18	0	0	94	90
Hawaii	69	65	72	68	73	69	0	0	215	202
U.S. Total	19,533	19,522	14,079	13,732	6,160	6,025	64	62	39,836	39,341

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	5,176	5,051	4,518	4,562	1,173	1,191	27	28	10,894	10,831
Connecticut	1,467	1,494	1,132	1,160	235	243	11	11	2,845	2,908
Maine	442	414	285	274	140	145	0	0	866	833
Massachusetts	2,248	2,146	2,249	2,269	519	518	13	13	5,030	4,946
New Hampshire	496	468	371	371	136	141	0	0	1,003	979
Rhode Island	315	324	315	319	61	61	3	3	694	707
Vermont	208	206	167	169	81	83	0	0	456	458
Middle Atlantic	11,964	11,864	11,249	11,239	2,850	2,883	252	243	26,315	26,229
New Jersey	2,567	2,600	2,746	2,754	422	411	16	16	5,751	5,780
New York	5,057	4,922	6,255	6,145	568	590	203	192	12,082	11,849
Pennsylvania	4,340	4,342	2,248	2,340	1,861	1,882	33	35	8,481	8,599
East North Central	13,782	13,945	10,679	10,445	7,469	7,381	22	24	31,952	31,794
Illinois	3,209	3,255	2,568	2,548	1,547	1,544	18	20	7,342	7,368
Indiana	2,153	2,109	1,407	1,323	1,746	1,680	1	1	5,308	5,114
Michigan	3,010	2,987	2,493	2,362	1,258	1,231	0	0	6,761	6,580
Ohio	3,570	3,765	2,687	2,695	1,832	1,862	2	2	8,090	8,323
Wisconsin	1,840	1,828	1,524	1,517	1,086	1,064	0	0	4,450	4,410
West North Central	7,218	6,971	5,770	5,568	3,672	3,425	2	2	16,662	15,966
Iowa	1,032	1,000	673	655	802	749	0	0	2,507	2,404
Kansas	999	1,015	927	926	475	460	0	0	2,400	2,400
Minnesota	1,679	1,583	1,422	1,312	927	822	1	1	4,029	3,718
Missouri	2,257	2,173	1,648	1,610	480	471	1	1	4,386	4,255
Nebraska	637	619	496	487	476	465	0	0	1,609	1,572
North Dakota	292	275	335	317	389	342	0	0	1,016	935
South Dakota	322	306	270	261	124	115	0	0	716	682
South Atlantic	23,768	24,134	16,817	16,717	5,147	5,086	60	62	45,792	45,999
Delaware	363	367	242	251	95	95	0	0	700	712
District of Columbia	180	185	544	577	9	11	18	19	752	792
Florida	7,934	7,724	5,184	4,938	758	740	5	5	13,880	13,406
Georgia	3,712	3,793	2,668	2,640	1,057	1,026	5	5	7,443	7,464
Maryland	2,186	2,309	1,825	1,870	184	171	24	26	4,219	4,374
North Carolina	3,559	3,774	2,343	2,410	946	960	0	0	6,848	7,144
South Carolina	2,142	2,221	1,299	1,294	945	920	0	0	4,386	4,435
Virginia	2,972	3,015	2,293	2,316	637	677	8	8	5,910	6,017
West Virginia	720	746	420	422	515	487	0	0	1,655	1,655
East South Central	7,310	7,316	5,384	5,204	3,438	3,199	0	0	16,131	15,719
Alabama	2,193	2,207	1,501	1,456	1,195	1,126	0	0	4,889	4,788
Kentucky	1,549	1,566	1,049	1,036	896	851	0	0	3,494	3,453
Mississippi	1,120	1,105	805	749	590	550	0	0	2,515	2,403
Tennessee	2,448	2,439	2,029	1,964	756	672	0	0	5,233	5,075
West South Central	12,734	12,721	9,155	8,506	5,671	5,053	9	6	27,569	26,286
Arkansas	986	988	567	551	565	531	0	0	2,118	2,071
Louisiana	1,558	1,525	1,238	1,175	1,065	933	1	1	3,862	3,634
Oklahoma	1,338	1,310	918	841	534	464	0	0	2,790	2,614
Texas	8,852	8,897	6,432	5,940	3,506	3,125	8	5	18,799	17,968
Mountain	6,828	6,543	5,393	5,193	3,063	3,028	8	7	15,292	14,771
Arizona	2,461	2,385	1,808	1,789	506	513	0	0	4,774	4,687
Colorado	1,320	1,299	1,156	1,107	646	611	4	4	3,126	3,021
Idaho	515	473	296	280	349	341	0	0	1,161	1,094
Montana	341	312	299	288	126	121	0	0	765	722
Nevada	901	837	506	448	424	457	0	0	1,831	1,743
New Mexico	501	461	531	495	261	246	0	0	1,292	1,202
Utah	600	594	585	584	337	338	3	3	1,526	1,519
Wyoming	189	182	212	202	415	400	0	0	816	783
Pacific Contiguous	12,568	11,515	12,342	11,765	4,335	4,345	42	41	29,288	27,665
California	9,201	8,484	10,018	9,533	3,273	3,305	40	39	22,531	21,362
Oregon	1,256	1,138	847	818	420	404	1	1	2,525	2,361
Washington	2,112	1,894	1,477	1,414	643	635	0	0	4,232	3,943
Pacific Noncontiguous	699	633	782	720	604	547	0	0	2,085	1,899
Alaska	262	235	316	289	135	120	0	0	713	645
Hawaii	437	397	466	430	469	427	0	0	1,372	1,254
U.S. Total	102,047	100,693	82,089	79,918	37,421	36,136	422	413	221,979	217,161

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	19.30	18.30	15.69	15.10	12.62	12.25	7.81	7.71	16.74	16.01
Connecticut	20.23	19.76	16.33	15.53	13.76	13.05	10.52	9.95	17.87	17.16
Maine	15.96	15.87	12.20	11.86	8.95	9.21	--	--	12.95	12.83
Massachusetts	19.88	18.20	16.20	15.74	13.75	13.24	5.42	5.64	17.28	16.35
New Hampshire	18.98	18.00	14.63	13.99	12.19	12.10	--	--	16.03	15.29
Rhode Island	17.19	17.11	15.20	14.19	14.85	13.45	20.08	19.26	16.06	15.42
Vermont	17.74	17.29	14.71	14.60	10.18	10.27	--	--	14.65	14.53
Middle Atlantic	16.46	15.96	13.39	13.31	6.88	6.95	11.97	11.25	13.41	13.25
New Jersey	16.02	16.16	12.97	13.23	10.91	11.03	9.06	9.21	14.17	14.40
New York	18.82	17.94	16.11	15.68	5.90	5.56	13.62	12.55	15.96	15.42
Pennsylvania	14.31	13.76	8.90	9.04	6.65	6.84	6.79	7.44	10.24	10.20
East North Central	13.12	12.87	9.98	9.87	7.04	7.04	7.80	6.58	10.22	10.14
Illinois	12.07	12.06	8.83	8.98	6.29	6.46	7.65	6.37	9.34	9.43
Indiana	11.85	11.27	10.17	9.55	7.43	7.00	10.75	8.90	9.70	9.18
Michigan	15.69	15.37	10.91	10.66	7.38	7.25	11.94	11.63	11.70	11.53
Ohio	12.59	12.25	9.75	9.63	6.56	6.90	7.30	8.14	9.88	9.88
Wisconsin	14.65	14.54	11.20	11.35	8.19	8.17	13.81	13.68	11.33	11.43
West North Central	13.39	12.76	10.78	10.24	8.23	8.02	10.75	10.79	11.06	10.62
Iowa	14.60	14.07	11.57	10.97	8.40	8.04	--	--	11.13	10.77
Kansas	13.61	13.06	10.74	10.42	7.81	7.51	--	--	11.17	10.85
Minnesota	14.02	13.20	11.43	10.10	8.11	7.62	9.97	10.20	11.31	10.44
Missouri	13.16	12.28	10.77	10.38	8.30	8.00	11.57	11.44	11.60	10.98
Nebraska	12.00	12.10	9.57	9.56	8.25	8.90	--	--	9.91	10.21
North Dakota	11.70	11.26	9.55	9.36	8.66	8.43	--	--	9.64	9.40
South Dakota	12.48	12.19	9.86	9.92	7.99	7.89	--	--	10.39	10.30
South Atlantic	12.18	11.80	9.49	9.27	6.91	6.96	8.10	8.00	10.38	10.15
Delaware	12.71	12.99	9.43	9.45	7.42	7.95	--	--	10.56	10.77
District of Columbia	12.23	12.30	11.13	11.30	8.45	8.62	9.12	9.02	11.30	11.38
Florida	11.93	11.18	9.49	8.87	8.05	7.97	8.50	8.03	10.75	10.11
Georgia	12.59	12.29	10.09	10.00	6.68	6.70	6.19	6.30	10.54	10.45
Maryland	13.59	14.05	10.33	10.74	8.08	7.47	8.02	7.79	11.70	12.14
North Carolina	11.20	11.19	8.82	8.98	6.90	7.04	8.46	7.76	9.59	9.65
South Carolina	12.79	12.58	10.71	10.46	6.50	6.65	--	--	10.31	10.30
Virginia	12.41	11.71	8.32	7.86	6.78	6.71	7.65	7.88	9.89	9.35
West Virginia	11.60	11.19	9.21	9.06	6.60	6.69	--	--	8.95	8.93
East South Central	11.31	10.83	10.59	10.11	6.25	6.20	--	--	9.61	9.34
Alabama	12.53	12.08	11.54	11.11	6.60	6.59	--	--	10.26	10.07
Kentucky	10.64	10.28	9.66	9.29	5.73	5.77	--	--	8.68	8.52
Mississippi	11.10	10.21	10.12	9.25	6.32	6.15	--	--	9.36	8.77
Tennessee	10.83	10.45	10.67	10.24	6.31	6.17	--	--	9.83	9.56
West South Central	10.79	10.47	8.43	7.79	5.85	5.38	8.27	5.63	8.73	8.36
Arkansas	10.67	10.28	8.70	8.24	6.55	6.50	13.38	9.46	8.77	8.58
Louisiana	9.99	9.06	9.16	8.14	6.12	4.80	9.66	8.68	8.45	7.44
Oklahoma	10.29	9.99	8.27	8.01	5.58	5.18	--	--	8.51	8.25
Texas	11.04	10.86	8.29	7.65	5.70	5.41	8.16	5.40	8.82	8.55
Mountain	12.29	12.09	10.22	9.98	7.17	7.11	10.00	9.78	10.27	10.04
Arizona	12.74	12.70	11.54	11.24	7.43	6.69	11.24	10.61	11.63	11.32
Colorado	12.45	12.44	10.36	10.01	7.66	7.43	9.70	9.78	10.44	10.28
Idaho	10.58	10.81	8.21	8.12	7.36	7.09	--	--	8.53	8.39
Montana	11.59	11.60	10.25	10.32	5.52	5.55	--	--	9.20	9.19
Nevada	11.64	10.72	7.92	7.70	7.59	8.42	9.19	8.60	9.53	9.20
New Mexico	13.57	12.51	11.24	10.45	6.29	5.97	--	--	10.57	9.87
Utah	11.91	11.72	9.32	9.13	7.03	7.05	10.35	9.89	9.72	9.51
Wyoming	12.15	11.88	9.77	9.49	6.81	6.78	--	--	8.28	8.19
Pacific Contiguous	16.33	15.96	15.18	14.63	10.59	10.50	9.33	9.16	14.61	14.16
California	18.85	18.49	17.69	16.94	14.47	14.05	9.34	9.18	17.53	16.93
Oregon	10.94	10.78	8.90	8.83	6.44	6.50	9.29	9.17	8.98	8.87
Washington	9.87	9.60	8.46	8.33	4.68	4.73	8.69	7.59	7.80	7.67
Pacific Noncontiguous	26.63	25.52	23.40	22.04	21.12	19.87	--	--	23.58	22.30
Alaska	22.30	21.42	19.51	18.61	16.94	16.52	--	--	19.72	18.96
Hawaii	29.25	28.04	26.50	24.80	22.63	21.01	--	--	25.78	24.20
U.S. Total	13.12	12.68	11.00	10.62	7.33	7.23	10.19	9.63	11.02	10.71

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD	July 2017 YTD	July 2016 YTD
New England	19.28	19.03	15.19	15.16	12.38	12.07	8.42	8.49	16.41	16.21
Connecticut	20.10	20.61	15.99	15.82	13.26	13.10	10.79	10.98	17.50	17.58
Maine	16.03	15.57	12.28	12.08	9.29	8.90	--	--	13.17	12.71
Massachusetts	19.96	19.29	15.43	15.51	13.46	13.06	6.38	6.43	16.82	16.53
New Hampshire	19.01	18.29	14.63	14.40	12.26	12.32	--	--	16.04	15.61
Rhode Island	18.13	18.40	15.10	15.05	14.30	13.60	19.47	18.55	16.27	16.27
Vermont	17.60	17.21	14.61	14.49	10.14	10.07	--	--	14.59	14.37
Middle Atlantic	15.99	15.63	12.56	12.42	6.93	7.02	11.22	10.86	12.66	12.51
New Jersey	15.88	15.74	12.54	12.46	10.26	10.23	9.03	8.75	13.58	13.50
New York	17.92	17.32	14.60	14.17	5.87	5.94	12.57	11.97	14.67	14.22
Pennsylvania	14.26	14.03	9.04	9.35	6.80	6.93	7.28	7.73	10.21	10.29
East North Central	13.20	12.86	10.10	9.78	7.04	6.84	6.81	6.93	10.09	9.83
Illinois	12.62	12.25	8.94	8.71	6.44	6.33	6.49	6.71	9.36	9.15
Indiana	11.92	11.13	10.28	9.54	7.40	6.81	11.41	9.50	9.59	8.89
Michigan	15.55	15.05	11.07	10.53	7.38	6.92	12.10	11.51	11.47	10.96
Ohio	12.31	12.38	9.94	9.81	6.65	6.81	7.56	7.67	9.68	9.76
Wisconsin	14.63	14.40	11.11	11.02	7.81	7.74	14.30	14.42	11.07	10.97
West North Central	12.02	11.62	9.81	9.44	7.29	7.05	8.85	9.07	9.85	9.53
Iowa	12.49	12.16	9.57	9.31	6.18	6.08	--	--	8.87	8.72
Kansas	13.25	12.98	10.47	10.33	7.54	7.47	--	--	10.58	10.47
Minnesota	13.10	12.55	10.63	9.74	7.74	7.22	9.47	10.03	10.55	9.92
Missouri	11.37	10.83	9.38	9.06	7.06	6.73	8.21	7.98	9.92	9.49
Nebraska	10.79	10.70	8.99	8.87	7.66	7.82	--	--	9.12	9.12
North Dakota	10.25	10.04	9.18	9.04	8.63	8.11	--	--	9.23	8.93
South Dakota	11.46	11.24	9.53	9.39	7.74	7.55	--	--	9.88	9.71
South Atlantic	11.93	11.61	9.44	9.31	6.45	6.35	7.96	7.87	10.00	9.82
Delaware	13.42	13.42	10.11	10.19	7.83	8.06	--	--	11.09	11.18
District of Columbia	12.73	12.96	11.73	11.71	8.41	9.08	9.44	9.36	11.83	11.86
Florida	11.75	11.17	9.55	9.12	7.91	7.72	8.47	8.30	10.56	10.09
Georgia	11.85	11.40	9.98	9.66	5.82	5.56	5.26	4.91	9.75	9.43
Maryland	14.16	14.26	10.89	10.97	8.44	7.88	7.87	7.80	12.16	12.24
North Carolina	11.06	11.11	8.52	8.65	6.09	6.16	8.70	7.85	9.11	9.23
South Carolina	12.80	12.39	10.46	10.11	6.05	5.94	--	--	9.79	9.59
Virginia	11.54	11.45	7.88	8.13	6.58	6.72	7.77	7.89	9.14	9.26
West Virginia	11.61	10.99	9.62	9.29	6.71	6.54	--	--	9.07	8.82
East South Central	11.27	10.66	10.55	9.99	5.98	5.68	--	--	9.30	8.88
Alabama	12.64	11.88	11.61	11.01	6.20	5.92	--	--	9.87	9.42
Kentucky	10.57	10.11	9.64	9.33	5.60	5.39	--	--	8.41	8.15
Mississippi	11.27	10.57	10.31	9.57	6.14	5.76	--	--	9.19	8.64
Tennessee	10.68	10.10	10.45	9.84	6.01	5.62	--	--	9.53	9.05
West South Central	10.76	10.50	8.36	7.79	5.47	5.09	8.03	5.64	8.31	7.97
Arkansas	10.15	9.76	8.42	8.11	5.87	5.79	11.82	9.26	8.12	7.94
Louisiana	9.47	8.92	8.93	8.40	5.36	4.81	10.04	8.93	7.69	7.19
Oklahoma	10.46	9.86	7.96	7.26	5.29	4.71	--	--	8.11	7.53
Texas	11.14	11.04	8.31	7.73	5.47	5.14	7.87	5.41	8.50	8.23
Mountain	11.84	11.61	9.66	9.50	6.46	6.24	9.91	9.53	9.50	9.25
Arizona	12.36	12.21	10.61	10.49	6.41	5.86	9.30	9.08	10.65	10.34
Colorado	12.08	11.79	9.84	9.42	7.27	6.96	10.02	9.40	9.89	9.57
Idaho	10.02	9.97	8.01	7.80	6.75	6.65	--	--	8.28	8.12
Montana	10.99	10.95	10.18	10.15	5.03	4.94	--	--	8.97	8.86
Nevada	11.83	11.53	7.84	8.08	5.82	5.69	8.21	7.80	8.57	8.36
New Mexico	12.91	11.73	10.32	9.64	6.08	5.74	--	--	9.71	9.00
Utah	11.12	11.05	8.81	8.81	6.21	6.37	10.09	9.98	8.72	8.76
Wyoming	11.29	11.07	9.74	9.41	6.96	6.91	--	--	8.32	8.18
Pacific Contiguous	14.87	14.35	13.38	12.95	9.11	8.88	8.30	8.75	13.02	12.55
California	18.24	17.28	15.36	14.74	12.22	11.76	8.27	8.73	15.77	15.01
Oregon	10.66	10.51	8.87	8.82	6.13	6.09	9.30	9.24	8.95	8.83
Washington	9.47	9.32	8.44	8.36	4.60	4.48	9.02	9.01	7.87	7.67
Pacific Noncontiguous	25.79	24.21	23.26	21.27	20.99	18.88	--	--	23.29	21.35
Alaska	21.41	20.41	19.69	18.09	16.87	15.34	--	--	19.65	18.24
Hawaii	29.39	27.22	26.52	24.12	22.58	20.18	--	--	25.78	23.41
U.S. Total	12.86	12.47	10.60	10.30	6.85	6.65	9.67	9.45	10.48	10.19

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,092,578	18,139,923	811,825	83	150,044,409
Year 2015					
January	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
Year 2016					
January	130,338,099	17,991,439	804,007	77	149,133,622
February	130,108,685	18,008,942	799,795	80	148,917,502
March	131,347,329	18,177,656	810,362	86	150,335,433
April	130,487,840	18,048,726	797,985	83	149,334,634
May	131,044,577	18,110,084	813,813	86	149,968,560
June	131,330,842	18,162,550	827,304	86	150,320,782
July	131,138,573	18,138,230	821,488	82	150,098,373
August	131,372,255	18,209,116	832,566	82	150,414,019
Sept	131,392,256	18,200,641	820,906	82	150,413,885
October	131,335,623	18,202,781	813,555	83	150,352,042
November	131,340,409	18,176,864	799,953	83	150,317,309
December	131,874,453	18,252,051	800,163	83	150,926,750
Year 2017					
January	131,833,179	18,232,721	804,348	83	150,870,331
February	131,335,983	18,145,698	793,112	85	150,274,878
March	132,712,308	18,331,082	812,438	83	151,855,911
April	131,803,304	18,178,402	797,849	84	150,779,639
May	133,114,778	18,342,112	824,384	84	152,281,358
June	132,811,370	18,345,281	832,494	84	151,989,229
July	132,296,421	18,350,876	826,766	85	151,474,148
Rolling 12 Months Ending in July					
2016	130,529,201	18,078,086	824,177	81	149,431,545
2017	131,935,195	18,247,302	813,211	83	150,995,792

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: July 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	6,351,009	6,297,998	888,288	878,614	26,814	25,893	6	6	7,266,117	7,202,511
Connecticut	1,495,196	1,487,232	152,927	152,219	4,414	4,410	3	3	1,652,540	1,643,864
Maine	714,400	682,982	100,570	96,831	3,146	2,948	0	0	818,116	782,761
Massachusetts	2,763,028	2,760,025	410,960	407,980	13,975	13,233	2	2	3,187,965	3,181,240
New Hampshire	619,249	615,483	107,490	107,432	3,248	3,259	0	0	729,987	726,174
Rhode Island	444,837	438,714	60,166	58,915	1,806	1,829	1	1	506,810	499,459
Vermont	314,299	313,562	56,175	55,237	225	214	0	0	370,699	369,013
Middle Atlantic	16,042,064	16,071,845	2,306,959	2,295,008	42,111	42,713	20	20	18,391,154	18,409,586
New Jersey	3,545,827	3,515,324	516,489	513,197	11,673	11,796	6	6	4,073,995	4,040,323
New York	7,143,466	7,228,131	1,092,014	1,088,154	7,580	7,718	8	8	8,243,068	8,324,011
Pennsylvania	5,352,771	5,328,390	698,456	693,657	22,858	23,199	6	6	6,074,091	6,045,252
East North Central	20,111,106	19,965,083	2,493,399	2,468,807	53,149	51,981	9	8	22,657,663	22,485,879
Illinois	5,269,751	5,232,372	609,926	605,148	5,732	5,483	3	3	5,885,412	5,843,006
Indiana	2,826,528	2,813,942	350,806	347,805	17,699	17,438	1	1	3,195,034	3,179,186
Michigan	4,361,427	4,321,327	551,018	542,917	NM	NM	2	1	4,918,293	4,869,953
Ohio	4,950,998	4,919,217	625,791	620,579	19,040	18,663	2	2	5,595,831	5,558,461
Wisconsin	2,702,402	2,678,225	355,858	352,358	NM	NM	1	1	3,063,093	3,035,273
West North Central	9,459,511	9,366,192	1,455,711	1,435,223	116,179	114,360	3	3	11,031,404	10,915,778
Iowa	1,382,143	1,366,447	243,347	240,103	NM	NM	0	0	1,632,394	1,613,337
Kansas	1,277,501	1,266,841	235,208	232,744	26,163	26,256	0	0	1,538,872	1,525,841
Minnesota	2,388,991	2,360,332	288,653	284,867	NM	NM	1	1	2,685,871	2,653,287
Missouri	2,779,405	2,762,130	380,254	374,756	8,380	8,408	2	2	3,168,041	3,145,296
Nebraska	854,738	842,200	161,781	158,490	55,458	53,890	0	0	1,071,977	1,054,580
North Dakota	377,764	374,374	73,356	72,279	7,972	7,892	0	0	459,092	454,545
South Dakota	398,969	393,868	73,112	71,984	NM	NM	0	0	475,157	468,892
South Atlantic	27,635,741	27,245,848	3,781,771	3,745,041	80,632	80,188	13	13	31,498,157	31,071,090
Delaware	423,700	418,326	53,938	53,099	1,190	1,122	0	0	478,828	472,547
District of Columbia	268,012	258,921	26,143	25,874	1	1	3	3	294,159	284,799
Florida	9,260,173	9,120,898	1,226,772	1,209,350	20,937	20,740	2	2	10,507,884	10,350,990
Georgia	4,331,511	4,265,793	580,986	576,232	19,950	19,483	1	1	4,932,448	4,861,509
Maryland	2,315,116	2,298,150	252,390	251,065	8,844	8,812	5	5	2,576,355	2,558,032
North Carolina	4,504,580	4,436,459	703,528	695,323	10,012	10,047	1	1	5,218,121	5,141,830
South Carolina	2,265,188	2,225,956	364,305	359,608	4,335	4,493	0	0	2,633,828	2,590,057
Virginia	3,410,703	3,364,451	429,682	431,890	3,805	3,797	1	1	3,844,191	3,800,139
West Virginia	856,758	856,894	144,027	142,600	11,558	11,693	0	0	1,012,343	1,011,187
East South Central	8,405,135	8,317,518	1,394,095	1,380,281	24,802	25,089	0	0	9,824,032	9,722,888
Alabama	2,243,116	2,217,108	369,699	367,640	8,252	8,192	0	0	2,621,067	2,592,940
Kentucky	1,983,824	1,971,738	300,917	297,724	7,719	7,672	0	0	2,292,460	2,277,134
Mississippi	1,311,271	1,296,743	238,180	237,407	7,438	7,866	0	0	1,556,889	1,542,016
Tennessee	2,866,924	2,831,929	485,299	477,510	1,393	1,359	0	0	3,353,616	3,310,798
West South Central	15,878,400	15,561,520	2,251,564	2,186,330	193,568	188,571	6	5	18,323,538	17,936,426
Arkansas	1,385,412	1,371,304	191,641	189,871	40,718	41,230	2	2	1,617,773	1,602,407
Louisiana	2,088,871	2,067,202	293,510	292,206	18,826	18,669	1	1	2,401,208	2,378,078
Oklahoma	1,770,407	1,751,958	284,427	282,319	18,052	18,123	0	0	2,072,886	2,052,400
Texas	10,633,710	10,371,056	1,481,986	1,421,934	115,972	110,549	3	2	12,231,671	11,903,541
Mountain	9,642,290	9,507,518	1,382,969	1,367,045	91,214	90,622	5	4	11,116,478	10,965,189
Arizona	2,744,120	2,707,019	320,599	316,115	6,917	6,729	2	1	3,071,638	3,029,864
Colorado	2,286,749	2,255,764	360,956	357,041	14,673	14,697	1	1	2,662,379	2,627,503
Idaho	726,441	713,151	108,707	107,239	28,480	28,197	0	0	863,628	848,587
Montana	505,469	498,799	108,797	107,043	9,685	9,549	0	0	623,951	615,391
Nevada	1,163,821	1,143,566	163,189	162,141	NM	3,597	1	1	1,330,500	1,309,305
New Mexico	893,617	888,164	138,876	138,001	8,597	8,585	0	0	1,041,090	1,034,750
Utah	1,050,130	1,030,785	123,093	121,065	9,594	9,584	1	1	1,182,818	1,161,435
Wyoming	271,943	270,270	58,752	58,400	9,779	9,684	0	0	340,474	338,354
Pacific Contiguous	18,051,556	18,090,457	2,280,993	2,267,738	196,111	199,910	23	23	20,528,683	20,558,128
California	13,295,722	13,415,112	1,651,951	1,656,413	141,190	145,577	15	15	15,088,878	15,217,117
Oregon	1,738,592	1,714,789	238,854	234,807	26,464	26,288	2	2	2,003,912	1,975,886
Washington	3,017,242	2,960,556	390,188	376,518	28,457	28,045	6	6	3,435,893	3,365,125
Pacific Noncontiguous	719,609	714,594	115,127	114,143	NM	NM	0	0	836,922	830,898
Alaska	287,246	284,261	53,681	52,932	NM	NM	0	0	342,325	338,558
Hawaii	432,363	430,333	61,446	61,211	788	796	0	0	494,597	492,340
U.S. Total	132,296,421	131,138,573	18,350,876	18,138,230	826,766	821,488	85	82	151,474,148	150,098,373

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

Table 6.1. Electric Generating Summer Capacity Changes (MW), June 2017 to July 2017

		As of End of June 2017	Activity During July 2017 as Reported to EIA		As of End of July 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*	*83,381.8*	*489.2*	*0.0*	*83,871.0*	*489.2*	*2,588.8*	*9,142.3*	*381.6*	*6,763.8*	*0.0*	*17.0*	*381.6*	*6,746.8*	*84,252.6*	*90,617.8*
..... *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	83,411.1	489.2	0.0	83,900.3	489.2	2,588.8	9,171.6	381.6	6,763.8	0.0	17.0	381.6	6,746.8	84,281.9	90,647.1
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*21,991.3*	*187.6*	*3.9*	*22,175.0*	*183.7*	*2,404.7*	*8,029.5*	*404.6*	*4,493.3*	*0.0*	*0.0*	*404.6*	*4,493.3*	*22,579.6*	*26,668.3*
..... *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	23,749.2	187.6	3.9	23,932.9	183.7	2,404.7	8,029.5	404.6	4,493.3	0.0	0.0	404.6	4,493.3	24,337.5	28,426.2
..... Conventional Hydroelectric	Utility Scale Facilities	79,981.4	102.2	0.0	80,083.6	102.2	98.2	39.8	147.3	376.0	103.8	110.0	43.5	266.0	80,127.1	80,349.6
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*9,061.0*	*99.0*	*41.1*	*9,118.9*	*57.9*	*175.6*	*164.6*	*0.0*	*94.4*	*0.0*	*0.0*	*0.0*	*94.4*	*9,118.9*	*9,213.3*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,091.4*	*23.1*	*0.0*	*2,114.5*	*23.1*	*-2.0*	*-5.9*	*0.9*	*5.7*	*0.0*	*2.3*	*0.9*	*3.4*	*2,115.4*	*2,117.9*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,246.8*	*0.0*	*0.0*	*2,246.8*	*0.0*	*-0.3*	*-0.3*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*-12.0*	*2,246.8*	*2,234.8*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*784.5*	*4.3*	*0.3*	*788.5*	*4.0*	*17.5*	*-21.8*	*0.0*	*54.2*	*0.0*	*0.0*	*0.0*	*54.2*	*788.5*	*842.7*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,183.7	126.4	41.4	14,268.7	85.0	190.8	136.6	0.9	154.3	0.0	14.3	0.9	140.0	14,269.6	14,408.7
..... Geothermal	Utility Scale Facilities	2,456.6	0.0	0.0	2,456.6	0.0	-54.9	-84.9	0.0	37.0	0.0	0.0	0.0	37.0	2,456.6	2,493.6
... Renewable Sources Subtotal	***Utility Scale Facilities***	***203,782.0***	***905.4***	***45.3***	***204,642.1***	***860.1***	***5,227.6***	***17,292.6***	***934.4***	***11,824.4***	***103.8***	***141.3***	***830.6***	***11,683.1***	***205,472.7***	***216,325.2***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*244,334.6*	*858.7*	*5.8*	*245,187.5*	*852.9*	*5,668.3*	*5,704.5*	*40.0*	*15,542.1*	*0.0*	*0.0*	*40.0*	*15,542.1*	*245,227.5*	*260,729.6*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*127,414.5*	*109.9*	*12.7*	*127,511.7*	*97.2*	*764.6*	*2,821.8*	*718.0*	*3,847.6*	*0.0*	*210.6*	*718.0*	*3,637.0*	*128,229.7*	*131,148.7*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*76,229.6*	*14.5*	*20.0*	*76,224.1*	*-5.5*	*-202.1*	*-2,257.8*	*0.0*	*0.0*	*0.0*	*1,840.9*	*0.0*	*-1,840.9*	*76,224.1*	*74,383.2*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,267.0*	*9.0*	*0.0*	*4,276.0*	*9.0*	*237.2*	*458.5*	*50.1*	*187.7*	*0.9*	*0.9*	*49.2*	*186.8*	*4,325.2*	*4,462.8*
..... *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*	*120.4*	*0.0*	*0.0*	*120.4*	*0.0*	*4.1*	*13.3*	*0.0*	*30.6*	*0.0*	*0.0*	*0.0*	*30.6*	*120.4*	*151.0*
..... Natural Gas Subtotal	Utility Scale Facilities	452,476.1	992.1	38.5	453,429.7	953.6	6,472.1	6,740.3	808.1	19,608.0	0.9	2,052.4	807.2	17,555.6	454,236.9	470,985.3
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*261,462.7*	*114.7*	*18.7*	*261,558.7*	*96.0*	*-7,687.2*	*-9,261.2*	*0.0*	*0.0*	*0.0*	*7,287.0*	*0.0*	*-7,287.0*	*261,558.7*	*254,271.7*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	262,277.7	114.7	18.7	262,373.7	96.0	-7,687.2	-9,261.2	0.0	0.0	0.0	7,287.0	0.0	-7,287.0	262,373.7	255,086.7
..... Petroleum Coke	Utility Scale Facilities	1,536.7	0.0	70.0	1,466.7	-70.0	-73.6	-73.6	0.0	0.0	0.0	0.0	0.0	0.0	1,466.7	1,466.7
..... Petroleum Liquids	Utility Scale Facilities	32,286.7	2.1	113.6	32,175.2	-111.5	-2,682.4	-2,755.6	4.3	25.5	3.8	140.9	0.5	-115.4	32,175.7	32,059.8
..... Other Gases	Utility Scale Facilities	2,455.5	0.0	0.0	2,455.5	0.0	-41.7	-44.9	0.0	0.0	0.0	0.0	0.0	0.0	2,455.5	2,455.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***751,032.7***	***1,178.9***	***240.8***	***751,970.8***	***938.1***	***-3,942.8***	***-5,325.0***	***812.4***	***19,633.5***	***4.7***	***9,480.3***	***807.7***	***10,153.2***	***752,778.5***	***762,124.0***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,814.1	0.0	5.4	22,808.7	-5.4	138.6	138.6	0.0	57.0	0.0	0.0	0.0	57.0	22,808.7	22,865.7
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	655.1	2.4	0.0	657.5	2.4	117.8	237.8	30.8	88.0	0.0	0.0	30.8	88.0	688.3	745.5
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,511.2***	***2.4***	***5.4***	***23,508.2***	***-3.0***	***254.4***	***374.4***	***30.8***	***145.0***	***0.0***	***0.0***	***30.8***	***145.0***	***23,539.0***	***23,653.2***
... Nuclear	***Utility Scale Facilities***	***99,370.1***	***127.0***	***6.0***	***99,491.1***	***121.0***	***175.2***	***-302.9***	***0.0***	***22.0***	***0.0***	***1,819.0***	***0.0***	***-1,797.0***	***99,491.1***	***97,694.1***
... All Other	***Utility Scale Facilities***	***1,377.2***	***0.0***	***0.0***	***1,377.2***	***0.0***	***-107.6***	***-92.6***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,377.2***	***1,432.0***
TOTAL	**UTILITY SCALE FACILITIES**	**1,079,073.2**	**2,213.7**	**297.5**	**1,080,989.4**	**1,916.2**	**1,606.8**	**11,946.5**	**1,777.6**	**31,679.7**	**108.5**	**11,440.6**	**1,669.1**	**20,239.1**	**1,082,658.5**	**1,101,228.5**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*14,690.5*			*15,106.6*	*416.1*	*1,923.4*	*3,325.6*								
..... Estimated Total Solar Photovoltaic	All Facilities	36,681.8			37,281.6	599.8	4,328.1	11,355.1								
... Estimated Total Solar	***All Facilities***	***38,439.7***			***39,039.5***	***599.8***	***4,328.1***	***11,355.1***								

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

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

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

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	19,770.3	13,183.2	32,953.5
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
Year 2016			
January	12,272.1	10,226.8	22,498.9
February	12,401.5	10,486.5	22,888.0
March	12,583.1	10,809.5	23,392.6
April	13,123.6	11,069.8	24,193.4
May	13,231.7	11,311.7	24,543.4
June	13,420.2	11,568.8	24,989.0
July	14,145.5	11,781.0	25,926.5
August	15,077.2	12,063.5	27,140.7
Sept	15,844.7	12,305.5	28,150.2
October	16,408.2	12,567.0	28,975.2
November	16,950.8	12,855.4	29,806.2
December	19,770.3	13,183.2	32,953.5
Year 2017			
January	20,135.6	13,348.4	33,484.0
February	20,327.7	13,807.7	34,135.4
March	20,765.0	14,107.5	34,872.5
April	21,350.7	14,282.4	35,633.1
May	21,747.1	14,509.8	36,256.9
June	21,991.3	14,690.5	36,681.8
July	22,175.0	15,106.6	37,281.6

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

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

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,421.2	4,680.8	1,081.2	13,183.2
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,352.9	3,991.9	882.0	10,226.8
February	5,550.7	4,033.4	902.4	10,486.5
March	5,775.1	4,104.2	930.3	10,809.5
April	5,972.7	4,149.0	948.1	11,069.8
May	6,159.1	4,188.8	963.7	11,311.7
June	6,352.0	4,239.0	977.7	11,568.8
July	6,512.3	4,271.8	996.9	11,781.0
August	6,704.7	4,343.1	1,015.8	12,063.5
Sept	6,873.9	4,404.9	1,026.7	12,305.5
October	7,060.2	4,469.8	1,037.0	12,567.0
November	7,241.6	4,565.7	1,048.1	12,855.4
December	7,421.2	4,680.8	1,081.2	13,183.2
Year 2017				
January	7,548.4	4,710.9	1,089.1	13,348.4
February	7,890.4	4,704.1	1,213.2	13,807.7
March	8,070.1	4,726.7	1,310.7	14,107.5
April	8,249.1	4,711.8	1,321.5	14,282.4
May	8,483.5	4,689.3	1,337.1	14,509.8
June	8,565.2	4,755.4	1,369.9	14,690.5
July	8,725.1	4,986.9	1,394.5	15,106.6

Values are preliminary.

Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	5,563.9	5,087.9	21,293.7	22,722.5	1,797.4	1,797.4	21.5	4.0	4,015.9	4,018.0	48.0	48.0	32,740.4	33,677.8
Connecticut	352.0	337.7	6,339.8	6,307.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,835.8	8,788.0
Maine	2,435.0	2,190.4	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,915.7	4,654.9
Massachusetts	1,153.6	1,004.8	8,340.7	9,811.0	1,768.0	1,768.0	2.5	2.0	677.2	682.3	0.0	0.0	11,942.0	13,268.1
New Hampshire	928.9	932.5	2,266.0	2,270.9	0.0	0.0	0.0	0.0	1,250.9	1,247.9	0.0	0.0	4,445.8	4,451.3
Rhode Island	104.8	55.8	1,806.8	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,911.6	1,847.1
Vermont	589.6	566.7	97.9	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	689.5	668.4
Middle Atlantic	10,949.7	10,730.1	68,152.7	69,291.1	3,409.1	3,409.1	70.4	70.5	19,211.3	19,224.5	11.2	11.2	101,804.4	102,736.5
New Jersey	881.9	745.6	12,326.5	13,588.3	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	17,747.5	18,873.0
New York	7,185.3	7,128.1	26,046.8	25,956.7	1,406.1	1,406.1	20.0	20.0	5,410.4	5,397.6	0.0	0.0	40,068.6	39,908.5
Pennsylvania	2,882.5	2,856.4	29,779.4	29,746.1	1,583.0	1,583.0	50.4	50.5	9,693.0	9,719.0	0.0	0.0	43,988.3	43,955.0
East North Central	10,926.2	10,218.2	113,989.0	113,905.2	2,133.0	2,037.0	187.4	177.4	19,021.6	18,896.1	110.1	110.1	146,367.3	145,344.0
Illinois	4,172.4	3,977.0	28,975.0	29,441.5	0.0	0.0	112.4	112.4	11,589.6	11,589.6	0.0	0.0	44,849.4	45,120.5
Indiana	2,305.5	2,159.5	23,056.0	23,353.9	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,472.5	25,624.4
Michigan	2,469.8	2,252.1	20,798.6	20,959.7	2,133.0	2,037.0	0.0	0.0	4,105.4	3,976.5	0.0	0.0	29,506.8	29,225.3
Ohio	851.7	717.8	26,659.6	25,800.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	29,698.3	28,694.8
Wisconsin	1,126.8	1,111.8	14,499.8	14,350.1	0.0	0.0	0.0	0.0	1,192.6	1,196.0	21.1	21.1	16,840.3	16,679.0
West North Central	25,512.9	21,777.4	60,980.2	60,582.6	657.0	657.0	2.0	2.0	5,394.9	5,855.5	24.5	24.5	92,571.5	88,899.0
Iowa	6,907.1	6,352.8	10,004.9	9,532.2	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,513.4	16,486.4
Kansas	5,131.4	3,863.7	9,782.1	9,716.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	16,089.3	14,756.3
Minnesota	4,567.6	4,117.3	10,087.6	10,132.6	0.0	0.0	1.0	1.0	1,657.0	1,647.0	18.4	18.4	16,331.6	15,916.3
Missouri	1,247.7	1,040.8	18,578.4	18,659.1	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,674.1	21,547.9
Nebraska	1,629.5	1,225.5	6,215.5	6,236.1	0.0	0.0	0.0	0.0	771.5	1,242.1	0.0	0.0	8,616.5	8,703.7
North Dakota	3,592.8	2,741.5	4,624.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,362.3
South Dakota	2,436.8	2,435.8	1,687.1	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,126.1
South Atlantic	17,160.5	14,704.9	160,828.0	159,744.6	7,905.2	7,905.2	80.5	77.5	24,598.6	24,578.6	402.7	509.7	210,975.5	207,520.5
Delaware	46.4	44.9	3,329.5	3,359.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	3,404.4
District of Columbia	12.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
Florida	1,733.8	1,435.8	54,170.9	53,862.4	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	59,825.4	59,218.9
Georgia	4,007.2	3,424.4	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	36,900.2	36,539.5
Maryland	1,061.0	1,026.5	10,287.3	9,556.7	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,069.1	12,302.0
North Carolina	5,538.6	4,283.1	21,646.9	22,021.3	86.0	86.0	1.0	0.0	5,113.6	5,113.6	54.0	161.0	32,440.1	31,665.0
South Carolina	1,850.4	1,790.4	11,529.3	11,633.0	2,716.0	2,716.0	0.0	0.0	6,576.2	6,556.2	0.0	0.0	22,671.9	22,695.6
Virginia	1,875.3	1,757.8	18,723.0	17,948.5	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,407.3	26,515.3
West Virginia	1,035.8	930.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,264.6	15,158.8
East South Central	8,584.3	8,214.6	65,711.2	65,848.3	1,616.3	1,616.3	0.0	0.0	10,984.1	10,990.1	1.4	1.4	86,897.3	86,670.7
Alabama	4,089.6	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	29,377.7	29,220.8
Kentucky	1,197.2	1,110.9	18,874.3	19,004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,071.5	20,115.4
Mississippi	383.3	274.7	14,302.0	14,315.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	16,087.7	15,992.5
Tennessee	2,914.2	2,889.1	12,307.2	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,360.4	21,342.0
West South Central	33,251.0	28,620.7	143,936.8	144,796.9	286.0	286.0	41.0	40.0	8,910.7	8,896.2	520.1	512.2	186,945.6	183,152.0
Arkansas	1,620.1	1,591.6	11,245.2	11,256.6	28.0	28.0	0.0	0.0	1,817.8	1,808.5	0.0	0.0	14,711.1	14,684.7
Louisiana	682.1	687.1	21,076.0	22,510.4	0.0	0.0	0.0	0.0	2,132.9	2,127.7	296.1	275.9	24,187.1	25,601.1
Oklahoma	7,684.9	6,389.5	18,174.7	18,218.2	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,117.6	24,865.7
Texas	23,263.9	19,952.5	93,440.9	92,811.7	0.0	0.0	41.0	40.0	4,960.0	4,960.0	224.0	236.3	121,929.8	118,000.5
Mountain	25,391.5	22,661.4	63,599.4	64,087.8	778.8	778.8	42.6	2.6	3,937.0	3,937.0	126.3	119.8	93,875.6	91,587.4
Arizona	4,994.0	4,587.4	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	28,123.1
Colorado	4,159.6	3,873.1	11,349.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,080.4	15,807.9
Idaho	4,013.3	3,776.1	1,148.1	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,176.2	4,948.4
Montana	3,437.3	3,414.1	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,221.7	6,198.5
Nevada	3,344.4	2,800.3	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	11,059.0
New Mexico	2,061.0	1,517.8	6,828.3	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,891.9	8,457.3
Utah	1,587.5	978.2	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	8,480.8
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	66,174.2	64,247.9	49,263.1	52,157.4	4,225.9	4,183.3	169.6	33.7	3,417.0	3,398.0	106.3	106.3	123,356.1	124,126.6
California	29,203.9	27,350.5	40,189.2	42,969.9	3,911.9	3,869.3	157.0	25.5	2,240.0	2,240.0	106.3	106.3	75,808.3	76,561.5
Oregon	12,171.8	12,042.5	4,318.1	4,372.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,494.9	16,420.3
Washington	24,798.5	24,854.9	4,755.8	4,814.7	314.0	314.0	7.6	3.2	1,177.0	1,158.0	0.0	0.0	31,052.9	31,144.8
Pacific Noncontiguous	1,127.9	1,086.4	4,216.7	4,159.4	0.0	0.0	84.5	56.0	0.0	0.0	26.6	26.6	5,455.7	5,328.4
Alaska	537.8	508.7	2,159.5	2,102.2	0.0	0.0	45.0	29.0	0.0	0.0	0.0	0.0	2,742.3	2,639.9
Hawaii	590.1	577.7	2,057.2	2,057.2	0.0	0.0	39.5	27.0	0.0	0.0	26.6	26.6	2,713.4	2,688.5
U.S. Total	204,642.1	187,349.5	751,970.8	757,295.8	22,808.7	22,670.1	699.5	463.7	99,491.1	99,794.0	1,377.2	1,469.8	1,080,989.4	1,069,042.9

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, July 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	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	1,347.9	1,049.7	612.6	434.3	0.0	0.0	1,957.4	1,955.2	1,646.0	1,648.7	0.0	0.0	5,563.9	5,087.9	1,613.1	1,244.5	2,225.7	1,678.8	2,225.7	1,678.8
Connecticut	1.1	1.1	25.2	15.2	0.0	0.0	122.2	122.2	203.5	199.2	0.0	0.0	352.0	337.7	299.1	227.1	324.3	242.3	324.3	242.3
Maine	898.8	652.7	0.0	0.0	0.0	0.0	732.4	728.9	803.8	808.8	0.0	0.0	2,435.0	2,190.4	27.5	20.1	27.5	20.1	27.5	20.1
Massachusetts	92.9	86.6	511.5	369.0	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,153.6	1,004.8	1,098.6	886.9	1,610.1	1,255.9	1,610.1	1,255.9
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	65.2	38.2	65.2	38.2	65.2	38.2
Rhode Island	51.8	6.0	10.2	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	104.8	55.8	36.5	14.1	46.7	24.3	46.7	24.3
Vermont	120.2	120.2	65.7	39.9	0.0	0.0	329.4	330.7	74.3	75.9	0.0	0.0	589.6	566.7	86.1	58.2	151.8	98.1	151.8	98.1
Middle Atlantic	3,204.1	3,088.1	807.2	635.3	0.0	0.0	5,630.7	5,623.5	1,307.7	1,383.2	0.0	0.0	10,949.7	10,730.1	2,490.1	2,019.4	3,297.3	2,654.7	3,297.3	2,654.7
New Jersey	7.6	7.6	634.7	496.6	0.0	0.0	12.3	12.3	227.3	229.1	0.0	0.0	881.9	745.6	1,336.9	1,171.8	1,971.6	1,668.4	1,971.6	1,668.4
New York	1,824.7	1,747.0	121.7	94.3	0.0	0.0	4,718.8	4,711.6	520.1	575.2	0.0	0.0	7,185.3	7,128.1	891.4	645.3	1,013.1	739.6	1,013.1	739.6
Pennsylvania	1,371.8	1,333.5	50.8	44.4	0.0	0.0	899.6	899.6	560.3	578.9	0.0	0.0	2,882.5	2,856.4	261.9	202.4	312.7	246.8	312.7	246.8
East North Central	8,422.7	7,814.1	350.3	219.6	0.0	0.0	853.1	913.2	1,300.1	1,271.3	0.0	0.0	10,926.2	10,218.2	222.2	162.0	572.5	381.6	572.5	381.6
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	38.4	24.0	71.2	56.8	71.2	56.8
Indiana	1,989.7	1,889.7	172.6	131.9	0.0	0.0	60.4	60.4	82.8	77.5	0.0	0.0	2,305.5	2,159.5	21.4	8.7	194.0	140.6	194.0	140.6
Michigan	1,583.8	1,360.1	62.5	6.9	0.0	0.0	263.0	324.6	560.5	560.5	0.0	0.0	2,469.8	2,252.1	NM	30.5	NM	37.4	NM	37.4
Ohio	533.9	433.1	67.5	44.9	0.0	0.0	101.9	101.9	148.4	137.9	0.0	0.0	851.7	717.8	89.4	75.3	156.9	120.2	156.9	120.2
Wisconsin	331.5	331.4	14.9	3.1	0.0	0.0	393.7	392.2	386.7	385.1	0.0	0.0	1,126.8	1,111.8	36.5	23.6	51.4	26.7	51.4	26.7
West North Central	21,252.6	17,918.0	417.8	30.4	0.0	0.0	3,289.4	3,278.1	553.1	550.9	0.0	0.0	25,512.9	21,777.4	227.8	174.3	645.6	204.7	645.6	204.7
Iowa	6,738.2	6,184.7	2.6	0.0	0.0	0.0	144.9	144.9	21.4	23.2	0.0	0.0	6,907.1	6,352.8	54.1	35.7	56.7	35.7	56.7	35.7
Kansas	5,113.2	3,846.7	2.2	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,131.4	3,863.7	8.7	5.9	10.9	6.9	10.9	6.9
Minnesota	3,506.5	3,440.7	374.5	5.3	0.0	0.0	205.9	194.6	480.7	476.7	0.0	0.0	4,567.6	4,117.3	36.6	24.6	411.1	29.9	411.1	29.9
Missouri	654.3	458.5	31.2	20.1	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,247.7	1,040.8	124.5	105.8	155.7	125.9	155.7	125.9
Nebraska	1,329.6	927.9	6.3	4.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,225.5	2.9	1.6	9.2	5.6	9.2	5.6
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	4,445.5	2,506.4	0.0	0.0	7,271.6	7,249.3	4,357.1	4,173.9	0.0	0.0	17,160.5	14,704.9	1,351.1	969.2	5,796.6	3,475.6	5,796.6	3,475.6
Delaware	2.0	2.0	32.2	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.4	44.9	91.4	76.7	123.6	107.4	123.6	107.4
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	12.0	12.0	47.9	34.6	47.9	34.6	47.9	34.6
Florida	0.0	0.0	382.6	92.7	0.0	0.0	54.5	54.5	1,296.7	1,288.6	0.0	0.0	1,733.8	1,435.8	171.3	141.4	553.9	234.1	553.9	234.1
Georgia	0.0	0.0	968.1	481.5	0.0	0.0	2,047.2	2,045.1	991.9	897.8	0.0	0.0	4,007.2	3,424.4	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	139.0	104.5	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,061.0	1,026.5	642.7	471.3	781.7	575.8	781.7	575.8
North Carolina	208.0	0.0	2,764.5	1,791.5	0.0	0.0	2,002.0	2,004.1	564.1	487.5	0.0	0.0	5,538.6	4,283.1	119.3	95.3	2,883.8	1,886.8	2,883.8	1,886.8
South Carolina	0.0	0.0	42.2	2.5	0.0	0.0	1,362.4	1,345.1	445.8	442.8	0.0	0.0	1,850.4	1,790.4	95.5	20.6	137.7	23.1	137.7	23.1
Virginia	0.0	0.0	116.9	3.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,875.3	1,757.8	46.0	26.4	162.9	29.4	162.9	29.4
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	5.2	4.0	5.2	4.0	5.2	4.0
East South Central	29.1	29.1	281.9	55.2	0.0	0.0	7,003.8	6,919.8	1,269.5	1,210.5	0.0	0.0	8,584.3	8,214.6	77.4	55.6	359.3	110.8	359.3	110.8
Alabama	0.0	0.0	93.0	0.0	0.0	0.0	3,270.2	3,271.0	726.4	668.9	0.0	0.0	4,089.6	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	1,115.0	1,030.2	72.2	70.7	0.0	0.0	1,197.2	1,110.9	16.2	10.7	26.2	20.7	26.2	20.7
Mississippi	0.0	0.0	108.6	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	383.3	274.7	4.5	3.0	113.1	3.0	113.1	3.0
Tennessee	29.1	29.1	70.3	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,914.2	2,889.1	52.3	39.5	122.6	84.7	122.6	84.7
West South Central	27,883.8	23,927.8	990.3	333.4	0.0	0.0	2,990.3	2,986.5	1,386.6	1,373.0	0.0	0.0	33,251.0	28,620.7	537.0	332.3	1,527.3	665.7	1,527.3	665.7
Arkansas	0.0	0.0	13.0	13.0	0.0	0.0	1,266.7	1,266.2	340.4	312.4	0.0	0.0	1,620.1	1,591.6	5.9	4.4	18.9	17.4	18.9	17.4
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	127.3	116.0	127.3	116.0	127.3	116.0
Oklahoma	6,743.2	5,451.2	2.5	2.5	0.0	0.0	861.6	859.6	77.6	76.2	0.0	0.0	7,684.9	6,389.5	4.4	3.0	6.9	5.5	6.9	5.5
Texas	21,140.6	18,476.6	974.8	317.9	0.0	0.0	670.0	668.7	478.5	489.3	0.0	0.0	23,263.9	19,952.5	399.4	208.9	1,374.2	526.8	1,374.2	526.8
Mountain	8,434.4	7,903.1	5,201.6	2,991.7	473.9	473.9	10,562.8	10,561.7	174.5	186.2	544.3	544.8	25,391.5	22,661.4	1,721.1	1,518.9	6,922.7	4,510.6	7,396.6	4,984.5
Arizona	267.3	267.3	1,679.7	1,273.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,994.0	4,587.4	934.6	852.8	2,614.3	2,125.9	2,909.7	2,421.3
Colorado	3,026.1	2,961.8	417.4	206.2	0.0	0.0	687.4	677.7	28.7	27.4	0.0	0.0	4,159.6	3,873.1	314.9	274.5	732.3	480.7	732.3	480.7
Idaho	970.5	962.7	240.0	0.0	0.0	0.0	2,708.9	2,707.7	83.9	95.7	10.0	10.0	4,013.3	3,776.1	9.8	6.0	249.8	6.0	249.8	6.0
Montana	678.5	653.5	8.0	0.0	0.0	0.0	2,747.8	2,757.6	3.0	3.0	0.0	0.0	3,437.3	3,414.1	9.6	7.1	17.6	7.1	17.6	7.1
Nevada	150.0	150.0	1,495.0	950.6	178.5	178.5	1,051.4	1,051.4	9.8	9.6	459.7	460.2	3,344.4	2,800.3	183.1	205.3	1,678.1	1,155.9	1,856.6	1,334.4
New Mexico	1,466.5	1,112.3	504.4	315.4	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,061.0	1,517.8	101.3	85.8	605.7	401.2	605.7	401.2
Utah	388.2	388.2	857.1	246.4	0.0	0.0	256.4	256.4	12.8	14.2	73.0	73.0	1,587.5	978.2	165.0	85.4	1,022.1	331.8	1,022.1	331.8
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	11,973.2	11,957.3	8,969.5	6,888.5	1,284.0	1,284.0	40,028.4	40,090.4	2,049.8	2,074.0	1,869.3	1,953.7	66,174.2	64,247.9	6,308.8	4,887.6	15,278.3	11,776.1	16,562.3	13,060.1
California	5,682.7	5,726.8	8,869.1	6,865.4	1,284.0	1,284.0	10,189.0	10,186.7	1,329.3	1,353.4	1,849.8	1,934.2	29,203.9	27,350.5	6,093.4	4,736.5	14,962.5	11,601.9	16,246.5	12,885.9
Oregon	3,217.4	3,157.4	99.9	22.6	0.0	0.0	8,525.2	8,525.4	309.8	317.6	19.5	19.5	12,171.8	12,042.5	128.2	82.5	228.1	105.1	228.1	105.1
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.2	21,378.3	410.7	403.0	0.0	0.0	24,798.5	24,854.9	87.2	68.5	87.7	69.0	87.7	69.0
Pacific Noncontiguous	266.2	266.2	98.3	50.7	0.0	0.0	496.1	466.1	224.3	260.4	43.0	43.0	1,127.9	1,086.4	558.1	417.2	656.4	467.9	656.4	467.9
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.2	441.1	7.0	7.0	0.0	0.0	537.8	508.7	1.8	0.0	1.8	0.0	1.8	0.0
Hawaii	205.6	205.6	98.3	50.7	0.0	0.0	25.9	25.0	217.3	253.4	43.0	43.0	590.1	577.7	556.3	417.2	654.6	467.9	654.6	467.9
U.S. Total	83,900.3	74,728.7	22,175.0	14,145.5	1,757.9	1,757.9	80,083.6	80,043.8	14,268.7	14,132.1	2,456.6	2,541.5	204,642.1	187,349.5	15,106.6	11,781.0	37,281.6	25,926.5	39,039.5	27,684.4

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, July 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	
	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016	July 2017	July 2016
New England	12,066.1	11,893.0	1,099.0	1,115.5	1,051.8	641.5	917.3	1,955.3	0.0	0.0	6,159.5	7,117.2	0.0	0.0	21,293.7	22,722.5
Connecticut	2,581.4	2,547.5	467.3	479.3	424.7	416.6	383.4	383.4	0.0	0.0	2,483.0	2,480.3	0.0	0.0	6,339.8	6,307.1
Maine	1,250.0	1,250.0	297.1	297.1	14.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,442.5	2,442.5
Massachusetts	5,226.5	5,098.6	330.8	335.3	200.0	198.0	0.0	1,038.0	0.0	0.0	2,583.4	3,141.1	0.0	0.0	8,340.7	9,811.0
New Hampshire	1,231.0	1,235.2	3.8	3.8	400.2	0.0	533.9	533.9	0.0	0.0	97.1	498.0	0.0	0.0	2,266.0	2,270.9
Rhode Island	1,777.2	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,806.8	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	99.7	0.0	0.0	97.9	99.7
Middle Atlantic	26,324.3	26,260.0	7,689.3	7,599.7	14,742.7	13,537.8	13,877.2	16,308.0	78.6	78.6	5,314.8	5,383.2	125.8	123.8	68,152.7	69,291.1
New Jersey	8,120.2	8,104.3	2,842.9	2,817.1	493.2	1,113.2	613.0	1,245.0	11.6	11.6	222.2	273.7	23.4	23.4	12,326.5	13,588.3
New York	8,124.9	8,095.7	3,166.9	3,105.2	9,633.4	9,522.0	1,639.9	1,749.6	0.0	0.0	3,481.7	3,484.2	0.0	0.0	26,046.8	25,956.7
Pennsylvania	10,079.2	10,060.0	1,679.5	1,677.4	4,616.1	2,902.6	11,624.3	13,313.4	67.0	67.0	1,610.9	1,625.3	102.4	100.4	29,779.4	29,746.1
East North Central	18,058.2	17,036.6	26,309.0	26,005.2	3,901.3	3,904.6	61,571.4	62,768.3	317.6	317.6	2,665.6	2,729.8	1,165.9	1,143.1	113,989.0	113,905.2
Illinois	3,566.3	3,543.0	10,302.2	10,169.1	290.9	281.4	14,016.1	14,644.6	0.0	0.0	685.0	685.7	114.5	117.7	28,975.0	29,441.5
Indiana	2,406.0	2,480.2	3,225.2	3,127.6	725.9	706.1	15,776.8	16,111.4	70.0	70.0	237.8	270.3	614.3	588.3	23,056.0	23,353.9
Michigan	4,421.6	4,296.5	3,969.0	3,918.7	2,134.7	2,465.8	9,477.7	9,451.0	47.2	47.2	498.4	530.5	250.0	250.0	20,798.6	20,959.7
Ohio	4,922.4	4,076.0	5,431.7	5,427.7	152.3	131.4	15,184.1	15,189.9	142.0	142.0	640.0	645.9	187.1	187.1	26,659.6	25,800.0
Wisconsin	2,741.9	2,640.9	3,380.9	3,362.1	597.5	319.9	7,116.7	7,371.4	58.4	58.4	604.4	597.4	0.0	0.0	14,499.8	14,350.1
West North Central	6,641.9	6,034.9	11,584.3	11,380.8	4,204.2	3,811.0	34,600.5	35,219.4	32.0	32.0	3,908.9	4,096.1	8.4	8.4	60,980.2	60,582.6
Iowa	1,774.7	1,125.8	1,300.5	1,105.6	510.1	572.8	5,541.1	5,681.7	32.0	32.0	846.5	1,014.3	0.0	0.0	10,004.9	9,532.2
Kansas	266.0	266.0	2,172.0	2,171.8	2,105.6	2,054.5	4,698.2	4,687.2	0.0	0.0	540.3	537.3	0.0	0.0	9,782.1	9,716.8
Minnesota	2,172.0	2,173.2	2,437.9	2,534.1	375.1	325.8	4,308.5	4,300.1	0.0	0.0	794.1	799.4	0.0	0.0	10,087.6	10,132.6
Missouri	1,796.6	1,837.3	3,420.5	3,395.2	501.0	349.9	11,726.1	11,932.0	0.0	0.0	1,134.2	1,144.7	0.0	0.0	18,578.4	18,659.1
Nebraska	342.6	342.6	1,150.8	1,151.5	592.1	499.3	3,817.3	3,929.0	0.0	0.0	312.7	313.7	0.0	0.0	6,215.5	6,236.1
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,624.6	4,615.5
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	475.0	0.0	0.0	219.8	222.0	0.0	0.0	1,687.1	1,690.3
South Atlantic	52,658.3	51,253.3	33,232.9	31,128.9	6,995.3	7,071.6	57,308.7	58,227.6	83.8	83.8	10,414.0	11,844.4	135.0	135.0	160,828.0	159,744.6
Delaware	1,512.0	1,512.0	315.2	311.0	843.2	877.4	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	3,359.5
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,444.7	27,505.6	9,291.5	7,500.2	2,476.7	3,027.7	9,984.0	9,984.0	0.0	0.0	4,974.0	5,844.9	0.0	0.0	54,170.9	53,862.4
Georgia	7,957.7	7,953.2	7,823.8	7,857.0	796.4	789.4	9,360.5	9,508.5	83.8	83.8	946.6	999.0	0.0	0.0	26,968.8	27,190.9
Maryland	976.0	250.0	1,966.2	1,581.0	1,414.2	1,415.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,287.3	9,556.7
North Carolina	4,724.8	4,766.0	6,047.7	6,049.7	0.0	0.0	10,536.8	10,802.8	0.0	0.0	337.6	402.8	0.0	0.0	21,646.9	22,021.3
South Carolina	2,409.0	2,409.0	2,813.9	2,855.6	296.0	296.0	5,547.0	5,547.0	0.0	0.0	463.4	525.4	0.0	0.0	11,529.3	11,633.0
Virginia	7,634.1	6,857.5	3,894.3	3,894.1	1,045.8	583.3	3,800.4	4,264.3	0.0	0.0	2,348.4	2,349.3	0.0	0.0	18,723.0	17,948.5
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	82.0	12,958.0	12,999.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	20,197.9	19,040.8	13,008.2	13,003.3	5,362.8	4,055.0	26,980.5	29,432.4	0.0	0.0	142.0	217.0	19.8	99.8	65,711.2	65,848.3
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	1,763.0	663.3	4,976.6	4,976.6	260.0	260.0	11,862.8	13,027.7	0.0	0.0	11.9	76.9	0.0	0.0	18,874.3	19,004.5
Mississippi	7,590.5	7,576.7	1,718.9	1,718.9	3,128.3	3,155.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,302.0	14,315.4
Tennessee	1,403.0	1,403.0	3,780.5	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	12,307.2	12,313.9
West South Central	60,288.1	59,066.1	13,344.1	13,264.9	32,088.6	34,233.0	36,423.7	36,432.5	955.7	959.3	181.3	181.3	655.3	659.8	143,936.8	144,796.9
Arkansas	4,620.5	4,602.9	702.8	702.8	793.7	816.3	5,116.0	5,122.4	0.0	0.0	12.2	12.2	0.0	0.0	11,245.2	11,256.6
Louisiana	7,552.8	7,616.4	2,372.8	2,358.1	6,952.7	8,332.4	2,852.9	2,855.1	891.9	895.5	45.5	45.5	407.4	407.4	21,076.0	22,510.4
Oklahoma	6,783.7	6,720.2	1,285.9	1,292.2	5,164.9	5,264.9	4,865.8	4,866.5	0.0	0.0	74.4	74.4	0.0	0.0	18,174.7	18,218.2
Texas	41,331.1	40,126.6	8,982.6	8,911.8	19,177.3	19,819.4	23,589.0	23,588.5	63.8	63.8	49.2	49.2	247.9	252.4	93,440.9	92,811.7
Mountain	22,494.2	22,487.3	8,859.0	8,926.6	3,333.2	3,196.9	28,378.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,599.4	64,087.8
Arizona	9,891.6	9,866.7	2,367.6	2,367.6	1,303.6	1,147.6	5,754.0	5,910.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,382.4
Colorado	3,240.5	3,240.5	2,572.3	2,535.3	329.0	329.0	5,038.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,349.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	5.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,148.1	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	1,465.0	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	6,828.3	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	316.2	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,410.1	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,786.5	6,786.5
Pacific Contiguous	25,979.3	25,993.0	11,759.6	11,610.7	8,875.6	11,890.1	1,982.0	2,015.0	17.0	17.0	422.3	422.3	227.3	209.3	49,263.1	52,157.4
California	19,954.8	19,892.9	10,906.4	10,715.5	8,619.6	11,638.1	57.0	90.0	17.0	17.0	407.1	407.1	227.3	209.3	40,189.2	42,969.9
Oregon	3,374.9	3,429.6	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	4,372.8
Washington	2,649.6	2,670.5	719.4	761.4	31.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,755.8	4,814.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,596.0	2,568.7	6.4	9.6	4,216.7	4,159.4
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	725.2	701.1	0.0	0.0	2,159.5	2,102.2
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,867.6	6.4	9.6	2,057.2	2,057.2
U.S. Total	245,187.5	239,483.0	127,511.7	124,689.9	80,730.5	82,516.5	262,373.7	271,634.9	1,536.7	1,540.3	32,175.2	34,930.8	2,455.5	2,500.4	751,970.8	757,295.8

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	60419		IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419		IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419		IPP	WakeSun, LLC	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV
2017	1	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV
2017	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Bowling Green	OH	60622	AMPBG	20.0	Solar Photovoltaic	SUN	PV
2017	1	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV
2017	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV
2017	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2017	1	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT
2017	1	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV
2017	1	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	1	60562	Oliver Wind III, LLC	IPP	Oliver Wind III, LLC	ND	60905	WT1	99.3	Onshore Wind Turbine	WND	WT
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	COGN1	78.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	60520	SoCore Energy LLC	IPP	Mt. Hope DPC Solar	WI	60893	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60520	SoCore Energy LLC	IPP	Sauk DPC Solar	WI	60887	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	57313	SolarCity Corporation	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	1	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS4	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS5	0.9	Solar Photovoltaic	SUN	PV
2017	2	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	10	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	11	29.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	9	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT1	41.6	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT2	74.5	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT3	32.9	Onshore Wind Turbine	WND	WT
2017	2	60501	Farmington Holdco LLC	IPP	Farmington Holdco Solar	MN	60832	FARMI	5.0	Solar Photovoltaic	SUN	PV
2017	2	60507	Fresh Air Energy XXXV, LLC	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV
2017	2	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	60618	Lindberg Field Solar 2, LLC	IPP	Lindberg Field Solar 2	CA	60984	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	2	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA01	46.5	Natural Gas Internal Combustion Engine	NG	IC
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	2	60490	Pine Island Holdco, LLC	IPP	Pine Island Solar	MN	60835	PINEI	3.9	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV
2017	2	60336	SDGE Batteries	Electric Utility	El Cajon Energy Storage	CA	60569	SES	7.5	Batteries	MWH	BA
2017	2	60520	SoCore Energy LLC	IPP	Downsville DPC Solar	WI	60892	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Medford DPC Solar	WI	60894	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	2	57313	SolarCity Corporation	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV
2017	2	57081	WGL Energy Systems, Inc	IPP	Lind Solar CSG	MN	60966	S0222	4.9	Solar Photovoltaic	SUN	PV
2017	3	60571	AEP Onsite Partners	IPP	Canandaigua Westbrook Solar Array	NY	61042	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Spartan	NJ	60755	PV1	8.3	Solar Photovoltaic	SUN	PV
2017	3	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV
2017	3	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV
2017	3	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00603	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00696	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00697	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00698	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00699	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00700	1.4	Landfill Gas	LFG	IC
2017	3	60407	Cimarron Bend Wind Project II, LLC	IPP	Cimarron Bend Wind Project II, LLC	KS	60688	1	200.0	Onshore Wind Turbine	WND	WT
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT4	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT5	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT6	2.0	Petroleum Liquids	DFO	IC
2017	3	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT
2017	3	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	27.6	Solar Photovoltaic	SUN	PV
2017	3	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT
2017	3	60457	FLS Energy, Inc	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST
2017	3	60343	Hector Farm, LLC	IPP	Hector Farm	NC	60577	1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV
2017	3	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	58822	MC Power Companies Inc	IPP	Independence Solar Farm	MO	61092	IPL1	3.0	Solar Photovoltaic	SUN	PV
2017	3	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	59469	Mt. Home Solar 1, LLC	IPP	Mt. Home Solar 1, LLC	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV
2017	3	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV
2017	3	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT
2017	3	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA
2017	3	60448	Simcoe Solar	IPP	Simcoe Solar	ID	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV
2017	3	60651	Spring Street Solar 1, LLC	IPP	Spring Street Solar 1 CSG	MA	61009	SPRIN	2.0	Solar Photovoltaic	SUN	PV
2017	3	19728	UNS Electric, Inc	Electric Utility	Jacobson 5 MW Solar	AZ	60603	PV1	4.1	Solar Photovoltaic	SUN	PV
2017	3	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT
2017	3	60487	Wabasha Holdco LLC	IPP	Wabasha Holdco Solar	MN	60838	WABAS	3.0	Solar Photovoltaic	SUN	PV
2017	3	22500	Westar Energy Inc	Electric Utility	Western Plains Wind Farm	KS	60689	1	280.0	Onshore Wind Turbine	WND	WT
2017	3	60614	Westside Solar, LLC	IPP	NextEra Westside PV	CA	60981	WS526	20.0	Solar Photovoltaic	SUN	PV
2017	3	60619	Whitney Point Solar, LLC	IPP	Whitney Point Solar	CA	60975	WS532	20.0	Solar Photovoltaic	SUN	PV
2017	3	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT
2017	4	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar CSG 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	4	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	COGEN	2.0	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0	Other Waste Biomass	OBG	GT
2017	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	211.7	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	211.8	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	230.1	Natural Gas Fired Combined Cycle	NG	CA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	BA1	10.0	Batteries	MWH	BA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	4	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	4	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV
2017	4	60307	NRG Solar Blythe II LLC	IPP	Solar Blythe 2	CA	60558	PV1	20.0	Solar Photovoltaic	SUN	PV
2017	4	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT
2017	4	60584	Onyx Asset Services Group	IPP	Onyx - Allen Harim	DE	61206	10021	1.5	Solar Photovoltaic	SUN	PV
2017	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV
2017	4	16609	San Diego Gas & Electric Co	Electric Utility	Ramona Solar Energy	CA	60995	1	3.8	Solar Photovoltaic	SUN	PV
2017	4	60636	SolaireHolman 1, LLC	IPP	SolaireHolman Solar Project	TX	60989	PV1	50.0	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV
2017	4	60848	Spencer Farm, LLC	IPP	Spencer Farm, LLC	NC	61220	1	5.0	Solar Photovoltaic	SUN	PV
2017	4	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	4	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	58375	Sterling Municipal Light Department	Electric Utility	Chocksett Rd Energy Storage Project	MA	60959	BA1	2.0	Batteries	MWH	BA
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV
2017	4	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG1	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG2	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG3	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	STG1	467.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA
2017	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV
2017	5	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	5	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 5	NC	61278	WILS5	9.5	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 6	NC	61279	WILS6	9.7	Solar Photovoltaic	SUN	PV
2017	5	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV
2017	5	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV
2017	5	60879	NGI-Kayenta Solar Lessor I, LLC	IPP	Kayenta Solar Project	AZ	61268	PV1	27.3	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	T0588 Phoenix - AZ	AZ	61199	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	5	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV

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	5	57081	WGL Energy Systems, Inc	IPP	Gulfport Naval Base CSG PV System	MS	61208	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM01	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM02	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM03	1.5	Landfill Gas	LFG	IC
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	6	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	7.3	Conventional Hydroelectric	WAT	HY
2017	6	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV
2017	6	60738	Gulf Coast Solar Center I (CA)	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC
2017	6	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	6	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV
2017	6	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV
2017	6	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 CSG LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV
2017	6	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2017	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	6	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV
2017	6	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60723	VRF Battery Plant	Electric Utility	Vanadium Redox Flow Battery Plant	CA	61107	VRF	2.0	Batteries	MWH	BA
2017	6	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV
2017	7	60634	AEM Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT
2017	7	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC
2017	7	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	50.0	Wood/Wood Waste Biomass	WDS	ST
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY
2017	7	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC
2017	7	60965	Cameron Solar II, LLC	IPP	Cameron Solar II	SC	61326	PGRB2	4.1	Solar Photovoltaic	SUN	PV
2017	7	57319	Constellation Solar Massachusetts LLC	IPP	Smith & Wesson at Springfield MA PV	MA	61367	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	7	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT
2017	7	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV
2017	7	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4	Natural Gas Internal Combustion Engine	NG	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	7	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV
2017	7	61021	Hecate Energy Clarke County, LLC	Electric Utility	Clarke Solar Power Facility	VA	61374	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	7	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV
2017	7	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400A	CA	61348	W5691	2.3	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400B	CA	61349	W5694	2.2	Solar Photovoltaic	SUN	PV
2017	7	58822	MC Power Companies Inc	IPP	Chillicothe Solar Farm	MO	61223	CHSF1	2.5	Solar Photovoltaic	SUN	PV
2017	7	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT
2017	7	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	EDG13	1.5	Natural Gas Internal Combustion Engine	NG	IC
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA
2017	7	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA
2017	7	60859	Redbed Plains Wind Farm LLC	IPP	Redbed Plains Wind Farm	OK	61221	WT1	99.1	Onshore Wind Turbine	WND	WT
2017	7	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	57313	SolarCity Corporation	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60947	Tesla Inc.	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	60950	USPS LA Solar FiT A & B	Electric Utility	USPS PV	CA	61250	USPS1	10.7	Solar Photovoltaic	SUN	PV
2017	7	19724	Vanderbilt University	Commercial	Vanderbilt University Power Plant	TN	52048	GT1B	5.8	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	3	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GT1	11.0	Petroleum Liquids	DFO	GT
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	3	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.1	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	5	29849	Wasatch Integrated Waste Management	Electric CHP	Wasatch Energy Systems Energy Recovery	UT	55302	1	1.6	Municipal Solid Waste	MSW	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	225.2	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	237.8	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	575.0	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	435.0	Petroleum Liquids	RFO	ST
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	9	50.0	Petroleum Liquids	DFO	GT
2017	6	55838	Exelon Wind 1, LLC	IPP	EXC Wind 1	TX	56557	1	10.0	Onshore Wind Turbine	WND	WT
2017	6	55837	Exelon Wind 2, LLC	IPP	EXC Wind 2	TX	56558	JDW2	10.0	Onshore Wind Turbine	WND	WT
2017	6	55836	Exelon Wind 3, LLC	IPP	EXC Wind 3	TX	56559	JDW3	10.0	Onshore Wind Turbine	WND	WT
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Hudson Generating Station	NJ	2403	2	620.0	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	1	316.0	Conventional Steam Coal	BIT	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	2	316.0	Conventional Steam Coal	BIT	ST
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND1	0.8	Onshore Wind Turbine	WND	WT
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND2	0.8	Onshore Wind Turbine	WND	WT
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2A	0.4	Petroleum Liquids	DFO	IC
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTA	23.0	Petroleum Liquids	DFO	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTB	25.0	Petroleum Liquids	DFO	GT

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	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	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	8	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	8	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	8	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	8	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	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	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	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	8	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	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	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	8	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	8	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	8	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Bizzell Church Solar 2	NC	61158	BIZZE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	8	60865	CD Global Solar Holdings, LLC	IPP	St. Pauls Solar 2	NC	61156	STPAU	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	8	60865	CD Global Solar Holdings, LLC	IPP	ZV Solar 2, LLC	NC	61257	ZV204	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	8	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	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	17.1
2017	8	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	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	(TS) Construction complete, but not yet in commercial operation	1.0
2017	8	60496	Enerparc Inc.	IPP	Black Eagle Solar, LLC	MT	61336	BESMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60496	Enerparc Inc.	IPP	Great Divide Solar, LLC	MT	61335	GDSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60496	Enerparc Inc.	IPP	Magpie Solar, LLC	MT	61337	MSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	8	60921	Farley Road Solar, LLC	IPP	Farley Road Solar	MA	61294	02419	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2017	8	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	8	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	31.0
2017	8	60917	Golden Hills Solar, LLC	IPP	Golden Hills Solar	MA	61315	02196	4.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.7
2017	8	60739	Gulf Coast Solar Center II (CA)	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	40.0
2017	8	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	8	60964	Hampton Solar I, LLC	IPP	Hampton Solar I	SC	61325	PGRB3	6.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	6.8
2017	8	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	8	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2017	8	60727	Manteca Land PV, LLC	IPP	Manteca Land PV	CA	61115	MANT1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	8	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2017	8	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	8	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	8	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	8	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	8	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	8	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	8	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	8	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	8	60963	Odyssey Solar, LLC	IPP	Odyssey Solar	SC	61324	PGRB4	8.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	8.2
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	8	60925	Pleasantdale Road Solar, LLC	IPP	Pleasantdale Road Solar	MA	61298	02112	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	8	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	149.3
2017	8	60916	SR Kersey, LLC	IPP	SR Kersey	CO	61314	KERS	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	8	60919	Sampson Road Solar, LLC	IPP	Sampson Road Solar	MA	61308	02696	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
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	60163	Soltage LLC	IPP	231 Dixon 74 Solar I, LLC	NC	61195	DIXON	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	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	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	8	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	8	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	8	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	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	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	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	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	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	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	9	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	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	9	15399	Avangrid Renewables LLC	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.0
2017	9	15399	Avangrid Renewables LLC	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	143.0
2017	9	60729	Bakersfield PV 1, LLC	IPP	Bakersfield PV 1	CA	61117	BAKE1	5.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.3

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	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	9	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.6
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Boaz Farm Solar	NC	61157	BOAZF	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	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	9	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	9	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	236.0
2017	9	7294	City of Glendale - (CA)	Electric Utility	Glendale Battery Energy Storage System	CA	60974	2BESS	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	9	60990	Cline Solar, LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Jakin GA PV	GA	61397	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	79.0
2017	9	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	9	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	9	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	9	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	9	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	9	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	9	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	9	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	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	60926	Hatfield Renewables, LLC	IPP	Hatfield Renewables	MA	61299	02599	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2017	9	61022	Hecate Energy Cherrydale LLC	Electric Utility	Cherrydale Solar Power Facility	VA	61375	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	9	57389	IKEA Property Inc	IPP	IKEA Grand Prairie Rooftop PV System	TX	61309	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2017	9	60985	Long Henry Solar, LLC	IPP	Long Henry Solar	NC	61347	GEN1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	58822	MC Power Companies Inc	IPP	BPU Solar Farm	KS	61313	BPU1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	9	56990	NJR Clean Energy Ventures Corporation	IPP	Princeton Solar Project	NJ	61354	STONY	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	9	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	9	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	9	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	9	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	9	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	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	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	9	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	9	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	9	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	9	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	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	Oneida County- DPW	NY	60114	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	9	60163	Soltage LLC	IPP	Mill Pond Solar Farm, LLC	NC	61196	MILLL	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	60652	Stafford St Solar 1, LLC	IPP	Stafford St Solar 1	MA	61016	STAF1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60653	Stafford St Solar 2, LLC	IPP	Stafford St Solar 2	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60654	Stafford St Solar 3, LLC	IPP	Stafford St Solar 3	MA	61018	STAF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8
2017	9	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	9	60947	Tesla Inc.	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	9	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	9	60924	Upton Solar, LLC	IPP	Upton Solar	MA	61297	02567	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	21.0
2017	9	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	10	60983	Bear Creek Solar, LLC - NC	IPP	Bear Creek Solar	NC	61351	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	10	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.5
2017	10	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	10	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	(V) Under construction, more than 50 percent complete	8.8
2017	10	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	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	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	369.0
2017	10	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	231.3
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	61028	LSE Cassiopeia LLC	IPP	Ashby Duffy Solar Farm	MA	61399	DU183	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	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	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	10	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	10	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	493.0
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	10	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	10	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	10	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	10	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	10	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	10	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	10	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	10	60163	Soltage LLC	IPP	Broadridge Solar, LLC	NC	61218	BROAD	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA2	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2017	10	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	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	10	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	10	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	10	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	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	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	11	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	11	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	11	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	11	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.8
2017	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	293.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	362.0
2017	11	56215	E ON Climate Renewables N America LLC	IPP	Inadale Wind Farm LLC	TX	56984	INABT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	11	60869	EDF Renewable Energy	IPP	Rock Falls Wind Farm LLC	OK	61261	RF1	154.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	154.5
2017	11	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.5
2017	11	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	130.0
2017	11	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	11	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	121.5
2017	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	60811	Golden Hills Interconnection Wind, LLC	IPP	Golden Hills North Wind Energy Center	CA	61222	1	46.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	46.0
2017	11	60969	Hog Creek Wind Project LLC	IPP	Hog Creek Wind Project	OH	61330	WT1	66.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	66.0
2017	11	58822	MC Power Companies Inc	IPP	Higginsville Solar Farm	MO	61316	HSF1	2.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.5
2017	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2017	11	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.9
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	1	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	2	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	3	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	11	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	11	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2017	11	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	11	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2017	11	60542	Willow Springs Windfarm, LLC	IPP	Willow Springs Wind Farm	TX	60901	WSPWF	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2017	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0

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	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	79.2
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.4
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.5
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	127.0
2017	12	60376	Auten Road Farm, LLC	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	15399	Avangrid Renewables LLC	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	15399	Avangrid Renewables LLC	IPP	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	75.0
2017	12	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2017	12	60746	Bedford Solar, LLC	IPP	Bedford Solar	VA	61126	12346	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	25.0
2017	12	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60944	Bluff Point Wind, LLC	IPP	Bluff Point Wind Facility	IN	61303	BLUFF	119.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	119.7
2017	12	60984	Bondi Solar, LLC	IPP	Bondi Solar	NC	61352	GEN1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	361.3
2017	12	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.3
2017	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2017	12	60380	Cork Oak Solar LLC	IPP	Cork Oak Solar	NC	60637	NC160	26.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS1	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS3	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	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	12	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	12	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Crittenden Solar Facility	KY	61310	PV1	2.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.7
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 1 Solar Facility	KY	61311	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 2 Solar Facility	KY	61312	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Bruennings Breeze Wind Farm	TX	59066	MVII	228.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	228.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Radfords Run Wind Farm	IL	59061	WT1	278.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	278.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.3
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	12	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	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
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	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	57389	IKEA Property Inc	Commercial	IKEA Joliet Rooftop PV System	IL	61192	PV	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.1
2017	12	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	12	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	168.0
2017	12	60976	Next Generation Solar Farm, LLC	IPP	Next Generation Solar Farm	VT	61340	NGSF1	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2017	12	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5

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	60685	Novel Energy Solutions	IPP	Novel CSG of Armstrong	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of MN Lake	MN	61140	0000D	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Vetter Farms	MN	61141	0000F	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	58764	Origis Energy USA, Inc	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	58764	Origis Energy USA, Inc	IPP	OR Solar 3, LLC	OR	61201	ORSR3	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	12	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	98.0
2017	12	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2017	12	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2017	12	60997	Red Pine Wind Project, LLC	IPP	Red Pine Wind Project	MN	61357	RP1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	12	60978	SP Solar 5, LLC	IPP	Mill Creek Solar (OR)	OR	61338	PGRC1	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2017	12	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	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2017	12	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	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	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.5
2017	12	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	12	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	12	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	12	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	12	60947	Tesla Inc.	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.3
2017	12	60947	Tesla Inc.	IPP	Sacramento Regional County Sanitation PV	CA	61209	PV1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	12	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2017	12	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.8
2017	12	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.6
2017	12	60749	Wadesboro Solar, LLC	IPP	Wadesboro Solar	NC	61129	12347	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	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	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	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	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
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	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	1	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	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	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2018	2	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	2	60953	Farmingdale Fuel Cell, LLC	Electric CHP	Farmingdale Fuel Cell	NY	61317	MB-21	1.4	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2018	2	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2018	2	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	2	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	2	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	2	60998	Utica Aero Solar Max	IPP	Utica Aero Solar Max PV	OH	61361	UASM	12.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	12.0
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	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	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	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	3	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	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
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	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.0
2018	3	60947	Tesla Inc.	IPP	Hamilton College	NY	61103	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	60947	Tesla Inc.	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	3	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	3	60817	Winton Solar 2 LLC	IPP	Winton Solar 2	NC	61188	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2018	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	4	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	4	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	4	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
2018	4	49893	Invenergy Services LLC	IPP	Santa Rita Wind Energy	TX	60987	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	4	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2018	4	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	280.5
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	5	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	5	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	205.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	6	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	6	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2018	6	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	6	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	6	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	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	(T) Regulatory approvals received. Not under construction	55.0
2018	6	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	230.0
2018	6	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	287.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	476.9
2018	6	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	50.0
2018	6	60596	Western Grid Development, LLC	IPP	Santa Paula Energy Storage	CA	60946	SPES1	5.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	6	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	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	7	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	7	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2018	7	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	7	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	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	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2018	7	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	7	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	7	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	53.0
2018	7	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2018	7	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	7	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2018	7	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	7	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
2018	8	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	8	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	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	8	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2018	8	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	9	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	105.0
2018	9	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2018	9	60499	Eastway Solar, LLC	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	9	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	60498	Osceola Solar, LLC	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	600.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV3	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV4	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV5	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	2.7
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	10	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	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	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2018	11	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2018	11	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	11	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.2
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Carter Solar One, LLC	ID	60896	CRTON	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar East, LLC	ID	60899	JPTEA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar North, LLC	ID	60897	JPTNO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar South, LLC	ID	60898	JPTSO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar West, LLC	ID	60900	JPTWE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2018	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2018	12	15399	Avangrid Renewables LLC	IPP	Gala Solar	OR	61048	PV1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2018	12	15399	Avangrid Renewables LLC	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2018	12	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	90.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	58695	Coronal Development Services	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2018	12	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	201.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	12	60603	Eisenhower Solar, LLC	IPP	Eisenhower Solar	NC	60963	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	76.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	76.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	59745	First Solar Asset Management	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	36.0
2018	12	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	12	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2018	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2018	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2018	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
2018	12	58860	Southbridge Recycling and Disposal Park	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2018	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	35.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	35.0
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2018	12	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	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.0

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	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	394.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	60072	Willard Solar, LLC	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	1	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC2	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC3	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC4	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	58695	Coronal Development Services	IPP	Casper Solar Center	MD	61320	CSPSC	36.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	36.7
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2019	1	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2019	1	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	1	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind I	CA	60594	VYGR1	131.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	131.1
2019	2	60840	93LF 8me LLC	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	252.3
2019	2	60711	Battle Mountain SP, LLC	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2019	3	60846	GRP Madison Renewable Energy Facility, LLC	IPP	GRP Madison Renewable Energy Facility	GA	61213	GEN	65.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	65.0
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	200.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2019	3	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	488.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2019	5	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	225.0
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K4	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K5	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K6	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K7	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	6	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	Other Waste Biomass	AB	OT	(T) Regulatory approvals received. Not under construction	50.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
2019	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC2	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2019	6	13402	Nevada Irrigation District	IPP	Loma Rica Hydroelectric Powerhouse	CA	60988	HY1	1.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.4
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	210.0
2019	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN2	228.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	253.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	6	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	6	60519	Williams Solar, LLC	IPP	Williams Solar, LLC	TX	60859	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2019	7	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2019	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(L) Regulatory approvals pending. Not under construction	42.0
2019	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2019	9	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	9	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2019	9	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2019	10	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
2019	12	60560	Big Blue Wind Farm, LLC (TX)	IPP	Big Blue River Wind Farm	IN	60907	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	61030	Bluegrove Wind, LLC	IPP	Bluegrove Wind	TX	61400	BLUGR	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	61031	Byers Wind, LLC	IPP	Byers Wind	TX	61401	BYERS	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2019	12	60288	Cattle Ridge Wind Farm, LLC	IPP	Cattle Ridge Wind Farm 1	SD	60503	CTTL1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2019	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2019	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	182.0
2019	12	60604	Mountain Lion Solar, LLC	IPP	Mountain Lion Solar	NC	60950	PV1	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2019	12	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2019	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	60646	Reading Wind Energy, LLC	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.1
2019	12	60601	River Otter Solar, LLC	IPP	River Otter Solar	NC	60969	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	180.0
2019	12	58661	Sustainable Power Group, LLC	IPP	ESI Project	CA	50819	SHWA	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0

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	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2019	12	60597	Violet Solar, LLC	IPP	Violet Solar	NC	60961	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60427	WPD Wind Projects Inc	IPP	New Colony Wind Project	MT	60718	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT3	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	13478	Entergy New Orleans Inc	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2020	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.1
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	5	60385	Energy Nuevo Storage Farm	Industrial	Energy Nuevo Storage Farm	CA	60646	NUEVO	20.0	Flywheels	MWH	FW	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	5	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	6	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

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	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	218.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	230.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	110.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	116.0
2020	12	61010	Ord Mountain Solar, LLC	IPP	Ord Mountain Solar	CA	61372	ORDMT	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	58763	Summit Ridge Wind Holdings, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	3	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	4	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	260.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	498.2	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	552.0
2021	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	474.3	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	534.5
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	123.6	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	136.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2022	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	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	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	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	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	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	1	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	2	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	3	41.0	Conventional Steam Coal	SUB	ST
2017	12	9205	Illinois Electricial Gen Partn	IPP	Streator Energy Partners LLC	IL	55760	ST1	0.9	Landfill Gas	LFG	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	HP	0.0	Natural Gas Steam Turbine	NG	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	LP	0.0	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2018	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	1	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	1	908.0	Nuclear	NUC	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	2	911.0	Nuclear	NUC	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	6	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2018	6	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.8	Petroleum Liquids	KER	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	Nuclear	NUC	ST
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	10	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	42.2	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	6	20.9	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	BIT	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	107.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	50.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	51.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT2	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT3	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	BIT	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
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
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV

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

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-July 2017

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	52.7%	56.0%	8.3%	12.2%	NA	10.8%	1.3%	NA
Year 2015								
January	61.3%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	64.9%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.8%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	43.9%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
Year 2016								
January	55.6%	56.8%	4.5%	6.3%	NA	9.4%	0.5%	NA
February	48.4%	54.1%	4.5%	6.4%	NA	9.9%	0.5%	NA
March	35.6%	50.8%	7.2%	9.9%	NA	8.3%	1.3%	NA
April	37.3%	48.1%	8.6%	12.1%	NA	9.1%	1.0%	NA
May	41.1%	53.2%	7.6%	12.5%	NA	10.6%	1.3%	NA
June	60.8%	64.7%	10.0%	17.5%	NA	12.5%	1.5%	NA
July	69.1%	68.8%	14.3%	22.9%	NA	16.1%	2.5%	NA
August	68.6%	71.3%	14.3%	21.2%	NA	14.3%	3.1%	NA
Sept	59.7%	61.4%	9.4%	14.5%	NA	12.2%	1.4%	NA
October	50.2%	48.1%	7.6%	11.4%	NA	8.2%	1.1%	NA
November	45.5%	47.0%	6.6%	6.0%	NA	9.3%	0.7%	NA
December	60.2%	47.8%	4.7%	5.4%	NA	9.4%	0.6%	NA
Year 2017								
January	58.6%	50.6%	5.8%	4.1%	NA	10.0%	1.4%	NA
February	48.7%	48.6%	6.1%	3.6%	NA	8.9%	1.8%	NA
March	45.4%	48.1%	8.5%	8.2%	NA	12.1%	2.1%	NA
April	43.4%	45.7%	7.2%	8.9%	NA	9.0%	1.3%	NA
May	48.3%	49.5%	8.6%	9.7%	NA	15.0%	2.6%	NA
June	58.5%	60.2%	9.7%	16.1%	NA	15.3%	1.8%	NA
July	67.1%	70.1%	12.5%	22.3%	NA	18.1%	2.0%	NA

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

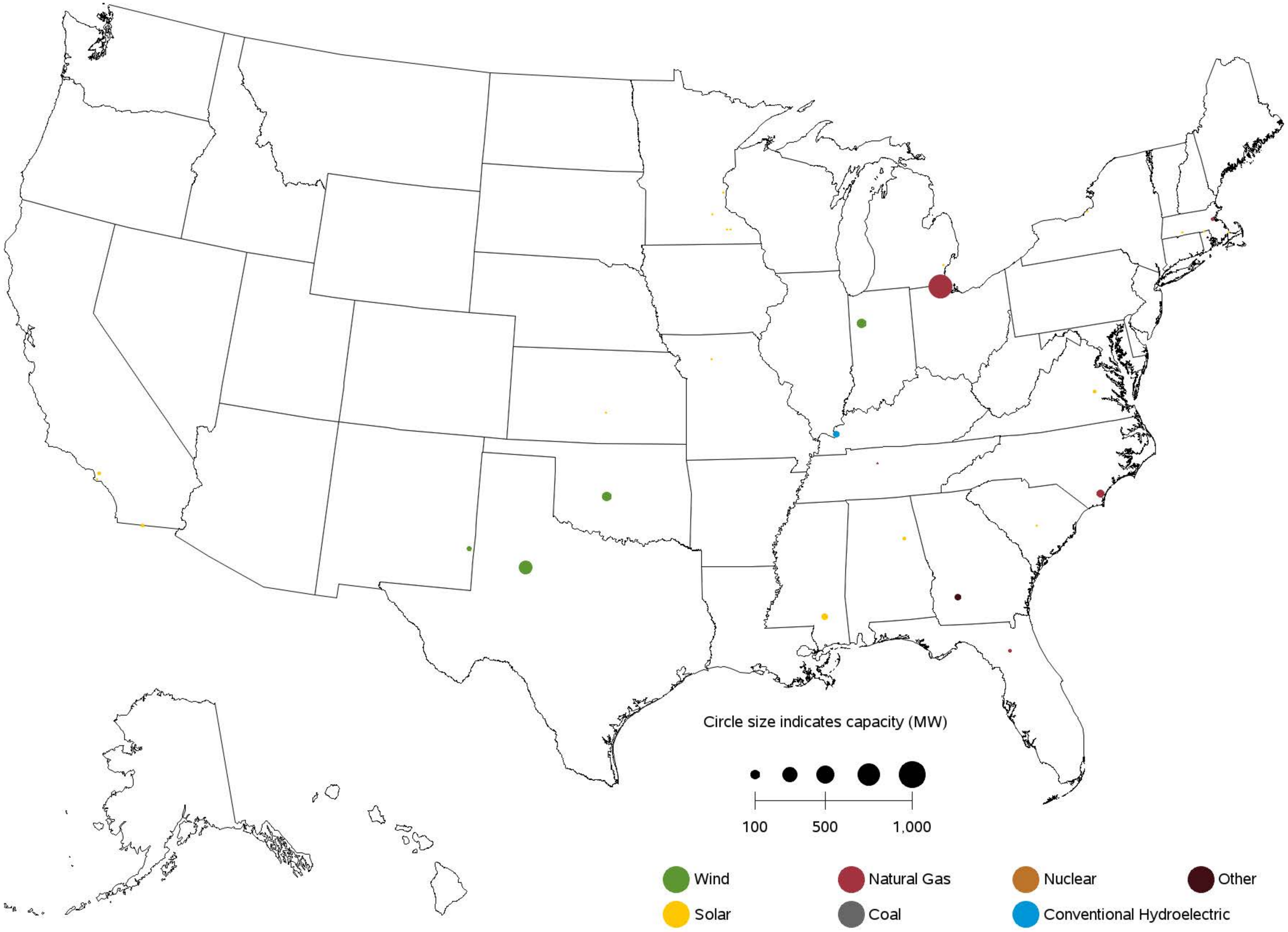
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-July 2017

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.5%	38.0%	34.7%	27.2%	22.2%	70.7%	46.7%	74.2%
Year 2015								
January	101.3%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
Year 2016								
January	98.8%	42.6%	34.2%	17.9%	6.8%	70.3%	51.2%	73.6%
February	95.6%	43.2%	39.9%	26.7%	19.5%	66.0%	54.0%	73.5%
March	90.1%	45.2%	40.4%	28.0%	19.6%	63.5%	47.8%	72.8%
April	87.8%	44.2%	39.4%	30.8%	20.9%	68.5%	36.4%	68.9%
May	90.7%	42.6%	34.3%	35.0%	28.9%	75.2%	39.0%	74.1%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.8%	47.2%	71.6%
July	94.8%	35.9%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%
Sept	91.1%	28.4%	30.6%	30.1%	30.2%	70.7%	47.4%	76.1%
October	81.9%	29.2%	36.7%	25.3%	19.1%	66.4%	38.0%	75.1%
November	91.1%	33.3%	35.4%	21.3%	14.4%	71.5%	41.6%	78.2%
December	97.0%	38.2%	38.8%	15.5%	7.0%	76.3%	50.2%	80.7%
Year 2017								
January	99.0%	48.4%	36.6%	16.9%	7.3%	74.2%	42.4%	79.8%
February	96.0%	47.7%	42.5%	20.0%	11.7%	70.6%	51.3%	78.1%
March	88.1%	54.1%	44.7%	27.9%	22.9%	67.9%	47.8%	75.0%
April	79.2%	53.5%	44.8%	31.0%	24.9%	68.0%	48.1%	78.6%
May	82.9%	56.6%	38.8%	34.1%	31.0%	70.6%	43.4%	74.0%
June	93.7%	56.9%	34.5%	35.7%	37.9%	72.6%	45.4%	75.2%
July	96.3%	45.9%	27.6%	33.7%	25.4%	71.3%	47.4%	78.0%

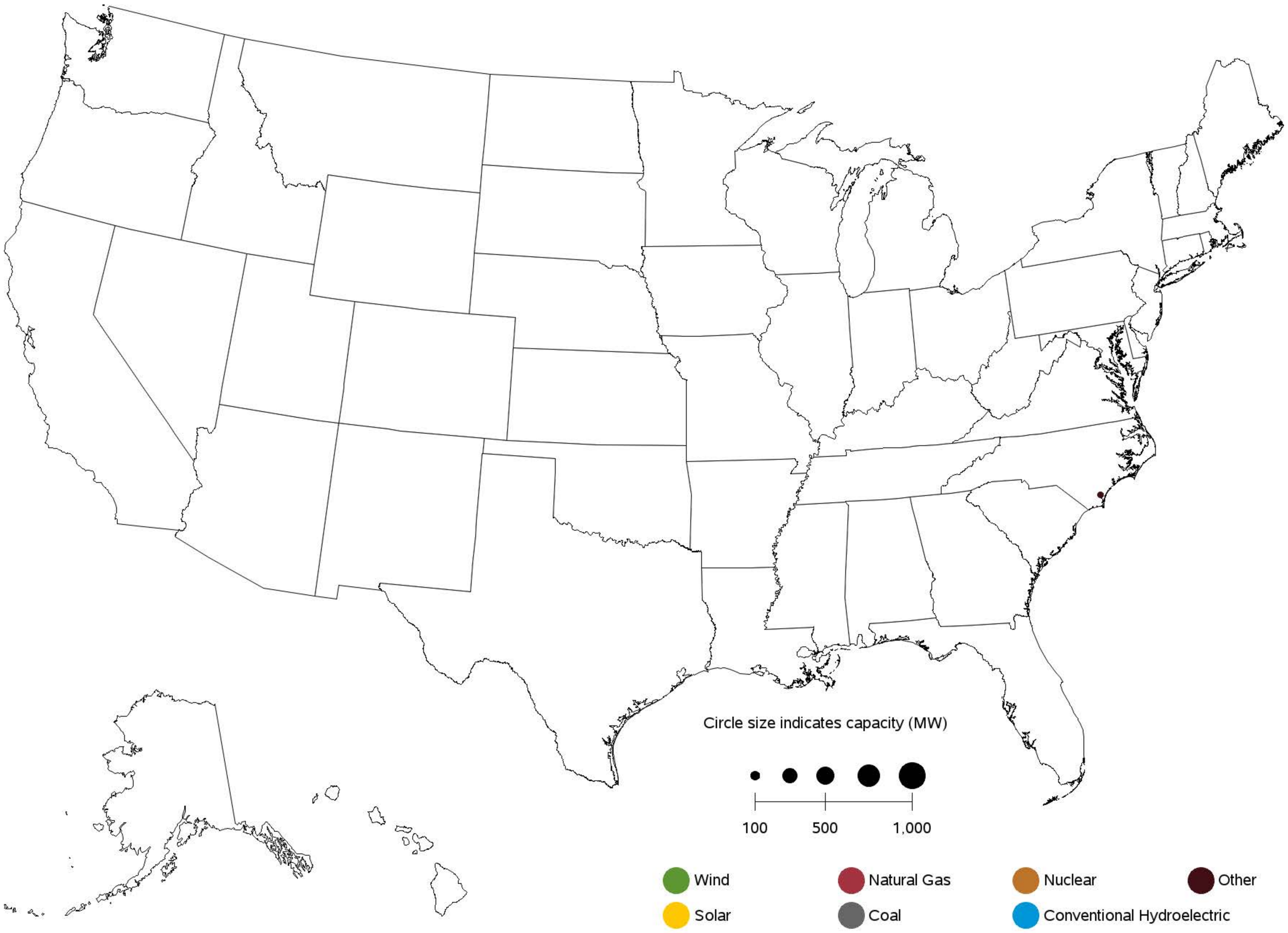
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations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



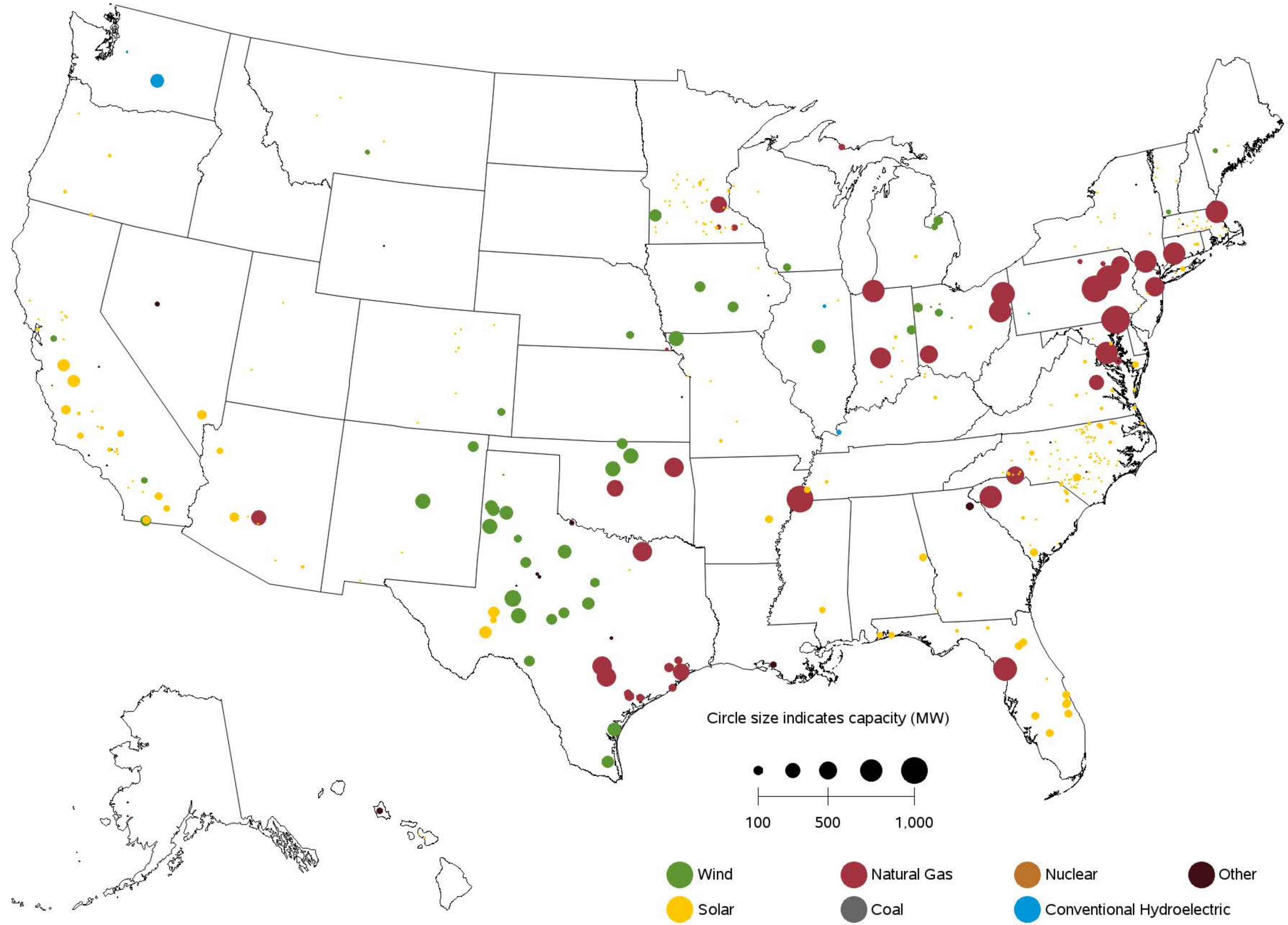
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



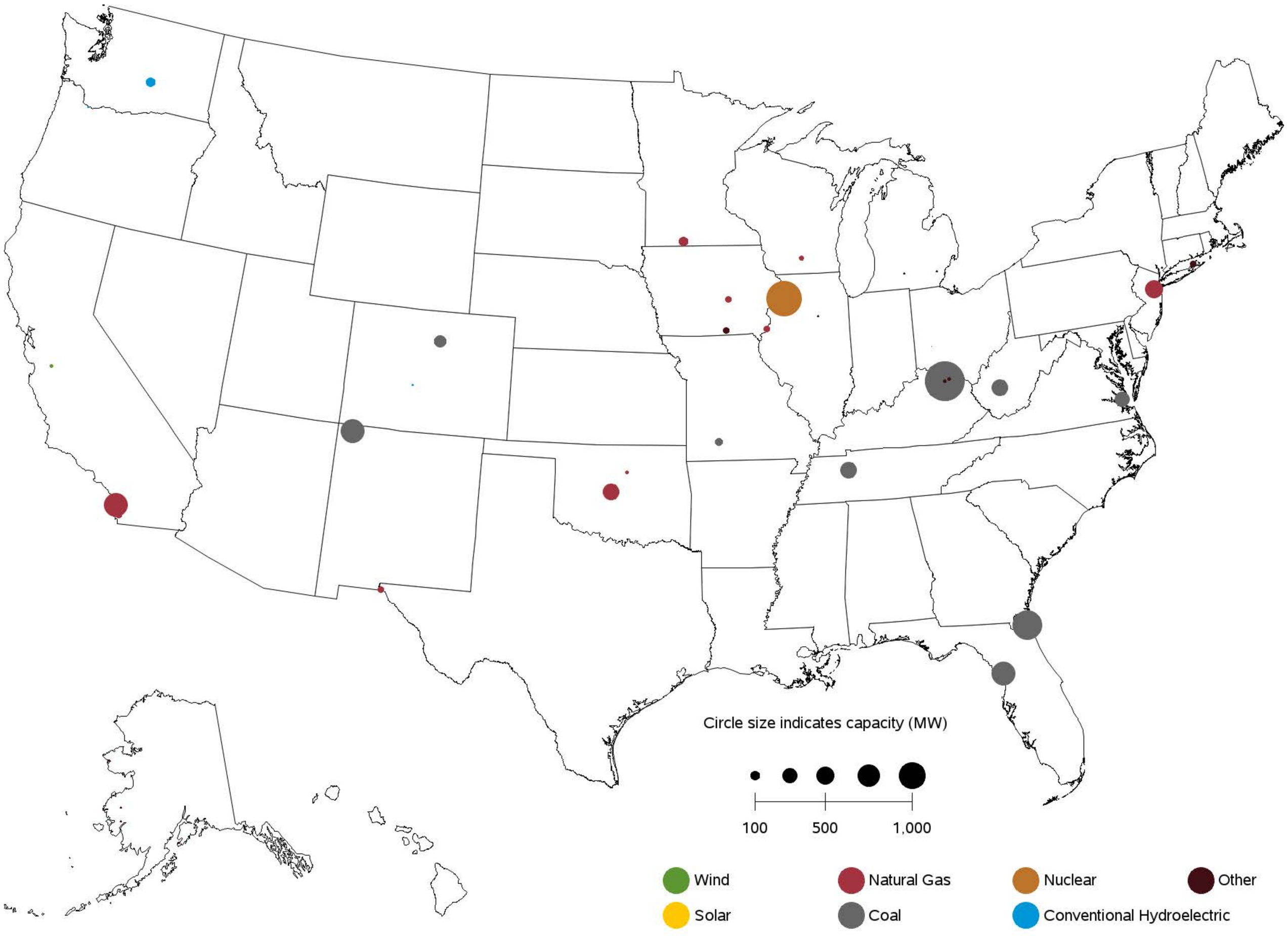
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**8**	**19**	**0**	**4**	**0**	**0**	**7**
Connecticut	0	42	0	4	0	0	27
Maine	57	9	0	36	0	0	10
Massachusetts	0	36	0	6	0	0	18
New Hampshire	0	22	0	0	0	0	14
Rhode Island	0	168	0	19	0	0	0
Vermont	0	89	0	0	0	0	15
Middle Atlantic	**2**	**11**	**52**	**2**	**24**	**0**	**2**
New Jersey	0	43	0	6	0	0	194
New York	0	19	0	3	0	0	1
Pennsylvania	2	10	74	2	32	0	10
East North Central	**0**	**8**	**15**	**3**	**8**	**0**	**11**
Illinois	0	8	0	10	0	0	50
Indiana	1	4	0	5	12	0	27
Michigan	1	17	0	4	0	0	21
Ohio	1	3	39	4	21	0	24
Wisconsin	0	91	0	7	0	0	16
West North Central	**1**	**34**	**0**	**9**	**0**	**0**	**7**
Iowa	1	47	0	15	0	0	26
Kansas	3	15	0	18	0	0	0
Minnesota	2	66	0	13	0	0	28
Missouri	1	12	0	25	0	0	13
Nebraska	2	233	0	25	0	0	20
North Dakota	0	33	0	51	0	0	17
South Dakota	0	211	0	29	0	0	11
South Atlantic	**0**	**8**	**11**	**1**	**35**	**0**	**4**
Delaware	0	54	0	9	40	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	1	24	66	3	0	0	7
Maryland	0	6	0	8	0	0	1
North Carolina	0	12	0	3	0	0	7
South Carolina	0	13	0	5	0	0	10
Virginia	4	23	0	2	0	0	12
West Virginia	1	0	0	16	0	0	17
East South Central	**1**	**6**	**0**	**2**	**26**	**0**	**4**
Alabama	0	54	0	2	44	0	5
Kentucky	2	6	0	4	0	0	10
Mississippi	0	13	0	3	0	0	0
Tennessee	0	0	0	4	0	0	6
West South Central	**0**	**12**	**1**	**1**	**4**	**0**	**6**
Arkansas	0	13	0	6	0	0	8
Louisiana	0	141	0	2	7	0	17
Oklahoma	0	25	0	2	0	0	10
Texas	0	12	26	1	5	0	13
Mountain	**0**	**12**	**0**	**1**	**0**	**0**	**4**
Arizona	0	10	0	1	0	0	4
Colorado	0	144	0	2	0	0	18
Idaho	71	0	0	16	0	0	9
Montana	3	38	0	27	0	0	8
Nevada	0	0	0	0	0	0	1
New Mexico	0	51	0	3	0	0	84
Utah	0	3	0	2	0	0	29
Wyoming	2	3	0	18	0	0	26
Pacific Contiguous	**0**	**18**	**0**	**1**	**2**	**0**	**2**
California	0	45	0	1	3	0	5
Oregon	0	6	0	5	0	0	4
Washington	0	21	0	8	0	0	1
Pacific Noncontiguous	**9**	**1**	**0**	**25**	**0**	**0**	**21**
Alaska	35	9	0	25	0	0	21
Hawaii	0	1	0	0	0	0	78
U.S. Total	**0**	**2**	**4**	**1**	**5**	**0**	**1**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	43	10	0	0	2
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	11	7	0	2	4
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	81	12	0	0	18
Vermont	0	0	0	30	16	0	0	11
Middle Atlantic	**0**	**0**	**0**	**9**	**6**	**0**	**1**	**1**
New Jersey	0	0	0	10	7	0	0	3
New York	0	0	0	19	9	0	2	1
Pennsylvania	0	0	0	37	10	0	0	1
East North Central	**0**	**0**	**0**	**12**	**6**	**0**	**3**	**1**
Illinois	0	0	0	30	10	0	0	1
Indiana	0	0	0	18	13	0	0	1
Michigan	0	0	0	20	9	0	9	1
Ohio	0	0	0	30	9	0	0	1
Wisconsin	0	0	0	57	14	0	43	2
West North Central	**0**	**0**	**0**	**7**	**6**	**0**	**5**	**1**
Iowa	0	0	0	133	10	0	0	2
Kansas	0	0	0	101	4	0	0	2
Minnesota	0	0	0	8	9	0	4	3
Missouri	0	0	0	31	18	0	0	2
Nebraska	0	0	0	54	14	0	0	2
North Dakota	0	0	0	0	9	0	46	2
South Dakota	0	0	0	215	24	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	47	33	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	8	3	0	1	1
Georgia	0	0	0	6	3	0	26	1
Maryland	0	0	0	17	13	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	34	4	0	0	1
Virginia	0	0	0	17	6	0	0	1
West Virginia	0	0	0	0	23	0	0	1
East South Central	**0**	**0**	**0**	**13**	**3**	**0**	**0**	**1**
Alabama	0	0	0	22	4	0	0	1
Kentucky	0	0	0	0	15	0	0	1
Mississippi	0	0	0	9	3	0	0	2
Tennessee	0	0	0	29	9	0	0	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	16	5	0	0	2
Louisiana	0	0	0	0	4	0	3	1
Oklahoma	0	0	0	0	4	0	0	2
Texas	0	0	0	5	2	0	4	1
Mountain	**0**	**8**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	0
Colorado	0	0	0	11	5	0	0	1
Idaho	0	35	0	10	14	0	0	7
Montana	0	0	0	76	25	0	0	3
Nevada	0	9	0	4	5	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	16	0	7	6	0	0	1
Wyoming	0	0	0	0	18	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	2	1
Oregon	0	23	0	22	8	0	0	3
Washington	0	0	0	0	9	0	0	1
Pacific Noncontiguous	**0**	**22**	**0**	**18**	**13**	**0**	**0**	**5**
Alaska	0	0	0	0	59	0	0	13
Hawaii	0	22	0	18	12	0	0	2
U.S. Total	**0**	**4**	**0**	**2**	**2**	**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 July 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**8**	**19**	**0**	**4**	**0**	**0**	**7**
Connecticut	0	42	0	4	0	0	27
Maine	57	9	0	36	0	0	10
Massachusetts	0	36	0	6	0	0	18
New Hampshire	0	22	0	0	0	0	14
Rhode Island	0	168	0	19	0	0	0
Vermont	0	89	0	0	0	0	15
Middle Atlantic	**2**	**11**	**52**	**2**	**24**	**0**	**2**
New Jersey	0	43	0	6	0	0	194
New York	0	19	0	3	0	0	1
Pennsylvania	2	10	74	2	32	0	10
East North Central	**0**	**8**	**15**	**3**	**8**	**0**	**11**
Illinois	0	8	0	10	0	0	50
Indiana	1	4	0	5	12	0	27
Michigan	1	17	0	4	0	0	21
Ohio	1	3	39	4	21	0	24
Wisconsin	0	91	0	7	0	0	16
West North Central	**1**	**34**	**0**	**9**	**0**	**0**	**7**
Iowa	1	47	0	15	0	0	26
Kansas	3	15	0	18	0	0	0
Minnesota	2	66	0	13	0	0	28
Missouri	1	12	0	25	0	0	13
Nebraska	2	233	0	25	0	0	20
North Dakota	0	33	0	51	0	0	17
South Dakota	0	211	0	29	0	0	11
South Atlantic	**0**	**8**	**11**	**1**	**35**	**0**	**4**
Delaware	0	54	0	9	40	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	1	24	66	3	0	0	7
Maryland	0	6	0	8	0	0	1
North Carolina	0	12	0	3	0	0	7
South Carolina	0	13	0	5	0	0	10
Virginia	4	23	0	2	0	0	12
West Virginia	1	0	0	16	0	0	17
East South Central	**1**	**6**	**0**	**2**	**26**	**0**	**4**
Alabama	0	54	0	2	44	0	5
Kentucky	2	6	0	4	0	0	10
Mississippi	0	13	0	3	0	0	0
Tennessee	0	0	0	4	0	0	6
West South Central	**0**	**12**	**1**	**1**	**4**	**0**	**6**
Arkansas	0	13	0	6	0	0	8
Louisiana	0	141	0	2	7	0	17
Oklahoma	0	25	0	2	0	0	10
Texas	0	12	26	1	5	0	13
Mountain	**0**	**12**	**0**	**1**	**0**	**0**	**4**
Arizona	0	10	0	1	0	0	4
Colorado	0	144	0	2	0	0	18
Idaho	71	0	0	16	0	0	9
Montana	3	38	0	27	0	0	8
Nevada	0	0	0	0	0	0	1
New Mexico	0	51	0	3	0	0	84
Utah	0	3	0	2	0	0	29
Wyoming	2	3	0	18	0	0	26
Pacific Contiguous	**0**	**18**	**0**	**1**	**2**	**0**	**2**
California	0	45	0	1	3	0	5
Oregon	0	6	0	5	0	0	4
Washington	0	21	0	8	0	0	1
Pacific Noncontiguous	**9**	**1**	**0**	**25**	**0**	**0**	**21**
Alaska	35	9	0	25	0	0	21
Hawaii	0	1	0	0	0	0	78
U.S. Total	**0**	**2**	**4**	**1**	**5**	**0**	**1**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	43	10	0	0	2
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	11	7	0	2	4
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	81	12	0	0	18
Vermont	0	0	0	30	16	0	0	11
Middle Atlantic	**0**	**0**	**0**	**9**	**6**	**0**	**1**	**1**
New Jersey	0	0	0	10	7	0	0	3
New York	0	0	0	19	9	0	2	1
Pennsylvania	0	0	0	37	10	0	0	1
East North Central	**0**	**0**	**0**	**12**	**6**	**0**	**3**	**1**
Illinois	0	0	0	30	10	0	0	1
Indiana	0	0	0	18	13	0	0	1
Michigan	0	0	0	20	9	0	9	1
Ohio	0	0	0	30	9	0	0	1
Wisconsin	0	0	0	57	14	0	43	2
West North Central	**0**	**0**	**0**	**7**	**6**	**0**	**5**	**1**
Iowa	0	0	0	133	10	0	0	2
Kansas	0	0	0	101	4	0	0	2
Minnesota	0	0	0	8	9	0	4	3
Missouri	0	0	0	31	18	0	0	2
Nebraska	0	0	0	54	14	0	0	2
North Dakota	0	0	0	0	9	0	46	2
South Dakota	0	0	0	215	24	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	47	33	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	8	3	0	1	1
Georgia	0	0	0	6	3	0	26	1
Maryland	0	0	0	17	13	0	0	2
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	34	4	0	0	1
Virginia	0	0	0	17	6	0	0	1
West Virginia	0	0	0	0	23	0	0	1
East South Central	**0**	**0**	**0**	**13**	**3**	**0**	**0**	**1**
Alabama	0	0	0	22	4	0	0	1
Kentucky	0	0	0	0	15	0	0	1
Mississippi	0	0	0	9	3	0	0	2
Tennessee	0	0	0	29	9	0	0	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	16	5	0	0	2
Louisiana	0	0	0	0	4	0	3	1
Oklahoma	0	0	0	0	4	0	0	2
Texas	0	0	0	5	2	0	4	1
Mountain	**0**	**8**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	0
Colorado	0	0	0	11	5	0	0	1
Idaho	0	35	0	10	14	0	0	7
Montana	0	0	0	76	25	0	0	3
Nevada	0	9	0	4	5	0	0	1
New Mexico	0	0	0	10	5	0	0	1
Utah	0	16	0	7	6	0	0	1
Wyoming	0	0	0	0	18	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	2	1
Oregon	0	23	0	22	8	0	0	3
Washington	0	0	0	0	9	0	0	1
Pacific Noncontiguous	**0**	**22**	**0**	**18**	**13**	**0**	**0**	**5**
Alaska	0	0	0	0	59	0	0	13
Hawaii	0	22	0	18	12	0	0	2
U.S. Total	**0**	**4**	**0**	**2**	**2**	**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, July 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**35**	**0**	**64**	**0**	**0**	**16**
Connecticut	0	36	0	0	0	0	24
Maine	0	0	0	0	0	0	0
Massachusetts	0	107	0	69	0	0	35
New Hampshire	0	33	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	89	0	0	0	0	23
Middle Atlantic	**0**	**38**	**0**	**7**	**0**	**0**	**1**
New Jersey	0	481	0	0	0	0	0
New York	0	38	0	7	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**13**	**0**	**5**	**0**	**0**	**12**
Illinois	0	29	0	55	0	0	111
Indiana	1	4	0	6	0	0	27
Michigan	1	18	0	9	0	0	22
Ohio	4	5	0	9	0	0	32
Wisconsin	0	93	0	8	0	0	18
West North Central	**1**	**35**	**0**	**10**	**0**	**0**	**7**
Iowa	1	48	0	16	0	0	26
Kansas	3	15	0	18	0	0	0
Minnesota	2	75	0	14	0	0	42
Missouri	1	12	0	30	0	0	13
Nebraska	2	233	0	25	0	0	20
North Dakota	0	33	0	53	0	0	17
South Dakota	0	212	0	29	0	0	11
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**5**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	34
Georgia	1	8	0	3	0	0	7
Maryland	0	27	0	0	0	0	0
North Carolina	0	12	0	3	0	0	7
South Carolina	0	14	0	6	0	0	10
Virginia	4	30	0	4	0	0	12
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**2**	**0**	**2**	**0**	**0**	**4**
Alabama	0	3	0	5	0	0	5
Kentucky	2	6	0	4	0	0	10
Mississippi	0	14	0	3	0	0	0
Tennessee	0	0	0	5	0	0	6
West South Central	**0**	**24**	**0**	**3**	**0**	**0**	**6**
Arkansas	0	64	0	21	0	0	8
Louisiana	0	141	0	4	0	0	0
Oklahoma	0	28	0	4	0	0	10
Texas	0	20	0	5	0	0	14
Mountain	**0**	**14**	**0**	**1**	**0**	**0**	**4**
Arizona	0	10	0	1	0	0	4
Colorado	0	144	0	1	0	0	19
Idaho	0	0	0	21	0	0	9
Montana	0	1,507	0	35	0	0	8
Nevada	0	0	0	0	0	0	0
New Mexico	0	51	0	3	0	0	84
Utah	0	3	0	3	0	0	29
Wyoming	2	3	0	34	0	0	27
Pacific Contiguous	**0**	**32**	**0**	**2**	**0**	**0**	**2**
California	0	48	0	1	0	0	4
Oregon	0	6	0	10	0	0	4
Washington	0	604	0	8	0	0	1
Pacific Noncontiguous	**59**	**2**	**0**	**25**	**0**	**0**	**21**
Alaska	59	9	0	25	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**1**

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

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

Electric Utilities by Census Division and State, July 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**	**36**	**11**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	7
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	76	93	0	0	46
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	43	17	0	0	14
Middle Atlantic	**0**	**0**	**0**	**34**	**34**	**0**	**0**	**2**
New Jersey	0	0	0	34	34	0	0	5
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**17**	**16**	**0**	**3**	**1**
Illinois	0	0	0	0	81	0	0	15
Indiana	0	0	0	28	19	0	0	1
Michigan	0	0	0	20	25	0	0	1
Ohio	0	0	0	108	119	0	0	4
Wisconsin	0	0	0	0	28	0	31	2
West North Central	**0**	**0**	**0**	**63**	**8**	**0**	**8**	**1**
Iowa	0	0	0	133	10	0	0	2
Kansas	0	0	0	0	10	0	0	2
Minnesota	0	0	0	142	16	0	0	3
Missouri	0	0	0	0	55	0	0	2
Nebraska	0	0	0	0	48	0	0	2
North Dakota	0	0	0	0	16	0	46	2
South Dakota	0	0	0	0	40	0	0	8
South Atlantic	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Delaware	0	0	0	136	136	0	0	28
Florida	0	0	0	8	7	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	117	117	0	0	97
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	25	18	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**35**	**30**	**0**	**0**	**1**
Alabama	0	0	0	51	51	0	0	1
Kentucky	0	0	0	0	36	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**66**	**12**	**0**	**0**	**1**
Arkansas	0	0	0	215	215	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	12	0	0	2
Texas	0	0	0	124	41	0	0	2
Mountain	**0**	**21**	**0**	**11**	**13**	**0**	**0**	**1**
Arizona	0	0	0	14	14	0	0	0
Colorado	0	0	0	0	46	0	0	1
Idaho	0	0	0	0	111	0	0	9
Montana	0	0	0	0	76	0	0	8
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	22	22	0	0	1
Utah	0	21	0	0	21	0	0	1
Wyoming	0	0	0	0	26	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**15**	**6**	**0**	**0**	**1**
California	0	0	0	15	5	0	0	2
Oregon	0	0	0	140	7	0	0	3
Washington	0	0	0	0	12	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**7**
Alaska	0	0	0	0	101	0	0	14
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**5**	**0**	**5**	**5**	**0**	**3**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**35**	**0**	**64**	**0**	**0**	**16**
Connecticut	0	36	0	0	0	0	24
Maine	0	0	0	0	0	0	0
Massachusetts	0	107	0	69	0	0	35
New Hampshire	0	33	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	89	0	0	0	0	23
Middle Atlantic	**0**	**38**	**0**	**7**	**0**	**0**	**1**
New Jersey	0	481	0	0	0	0	0
New York	0	38	0	7	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**13**	**0**	**5**	**0**	**0**	**12**
Illinois	0	29	0	55	0	0	111
Indiana	1	4	0	6	0	0	27
Michigan	1	18	0	9	0	0	22
Ohio	4	5	0	9	0	0	32
Wisconsin	0	93	0	8	0	0	18
West North Central	**1**	**35**	**0**	**10**	**0**	**0**	**7**
Iowa	1	48	0	16	0	0	26
Kansas	3	15	0	18	0	0	0
Minnesota	2	75	0	14	0	0	42
Missouri	1	12	0	30	0	0	13
Nebraska	2	233	0	25	0	0	20
North Dakota	0	33	0	53	0	0	17
South Dakota	0	212	0	29	0	0	11
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**5**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	34
Georgia	1	8	0	3	0	0	7
Maryland	0	27	0	0	0	0	0
North Carolina	0	12	0	3	0	0	7
South Carolina	0	14	0	6	0	0	10
Virginia	4	30	0	4	0	0	12
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**2**	**0**	**2**	**0**	**0**	**4**
Alabama	0	3	0	5	0	0	5
Kentucky	2	6	0	4	0	0	10
Mississippi	0	14	0	3	0	0	0
Tennessee	0	0	0	5	0	0	6
West South Central	**0**	**24**	**0**	**3**	**0**	**0**	**6**
Arkansas	0	64	0	21	0	0	8
Louisiana	0	141	0	4	0	0	0
Oklahoma	0	28	0	4	0	0	10
Texas	0	20	0	5	0	0	14
Mountain	**0**	**14**	**0**	**1**	**0**	**0**	**4**
Arizona	0	10	0	1	0	0	4
Colorado	0	144	0	1	0	0	19
Idaho	0	0	0	21	0	0	9
Montana	0	1,507	0	35	0	0	8
Nevada	0	0	0	0	0	0	0
New Mexico	0	51	0	3	0	0	84
Utah	0	3	0	3	0	0	29
Wyoming	2	3	0	34	0	0	27
Pacific Contiguous	**0**	**32**	**0**	**2**	**0**	**0**	**2**
California	0	48	0	1	0	0	4
Oregon	0	6	0	10	0	0	4
Washington	0	604	0	8	0	0	1
Pacific Noncontiguous	**59**	**2**	**0**	**25**	**0**	**0**	**21**
Alaska	59	9	0	25	0	0	21
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**1**

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

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

Electric Utilities by Census Division and State, Year-to-Date through July 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**	**36**	**11**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	7
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	76	93	0	0	46
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	43	17	0	0	14
Middle Atlantic	**0**	**0**	**0**	**34**	**34**	**0**	**0**	**2**
New Jersey	0	0	0	34	34	0	0	5
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**17**	**16**	**0**	**3**	**1**
Illinois	0	0	0	0	81	0	0	15
Indiana	0	0	0	28	19	0	0	1
Michigan	0	0	0	20	25	0	0	1
Ohio	0	0	0	108	119	0	0	4
Wisconsin	0	0	0	0	28	0	31	2
West North Central	**0**	**0**	**0**	**63**	**8**	**0**	**8**	**1**
Iowa	0	0	0	133	10	0	0	2
Kansas	0	0	0	0	10	0	0	2
Minnesota	0	0	0	142	16	0	0	3
Missouri	0	0	0	0	55	0	0	2
Nebraska	0	0	0	0	48	0	0	2
North Dakota	0	0	0	0	16	0	46	2
South Dakota	0	0	0	0	40	0	0	8
South Atlantic	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Delaware	0	0	0	136	136	0	0	28
Florida	0	0	0	8	7	0	0	1
Georgia	0	0	0	15	15	0	0	1
Maryland	0	0	0	117	117	0	0	97
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	25	18	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**35**	**30**	**0**	**0**	**1**
Alabama	0	0	0	51	51	0	0	1
Kentucky	0	0	0	0	36	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**66**	**12**	**0**	**0**	**1**
Arkansas	0	0	0	215	215	0	0	3
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	12	0	0	2
Texas	0	0	0	124	41	0	0	2
Mountain	**0**	**21**	**0**	**11**	**13**	**0**	**0**	**1**
Arizona	0	0	0	14	14	0	0	0
Colorado	0	0	0	0	46	0	0	1
Idaho	0	0	0	0	111	0	0	9
Montana	0	0	0	0	76	0	0	8
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	22	22	0	0	1
Utah	0	21	0	0	21	0	0	1
Wyoming	0	0	0	0	26	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**15**	**6**	**0**	**0**	**1**
California	0	0	0	15	5	0	0	2
Oregon	0	0	0	140	7	0	0	3
Washington	0	0	0	0	12	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**7**
Alaska	0	0	0	0	101	0	0	14
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**5**	**0**	**5**	**5**	**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, July 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**4**	**0**	**0**	**8**
Connecticut	0	46	0	4	0	0	28
Maine	0	2	0	45	0	0	10
Massachusetts	0	42	0	6	0	0	21
New Hampshire	0	892	0	0	0	0	16
Rhode Island	0	168	0	19	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**11**	**0**	**2**	**0**	**0**	**7**
New Jersey	0	44	0	6	0	0	194
New York	0	30	0	3	0	0	9
Pennsylvania	2	11	0	2	0	0	10
East North Central	**0**	**3**	**39**	**3**	**10**	**0**	**28**
Illinois	0	5	0	10	0	0	42
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	87
Ohio	0	4	39	4	24	0	36
Wisconsin	0	0	0	0	0	0	78
West North Central	**0**	**35**	**0**	**26**	**0**	**0**	**46**
Iowa	0	36	0	1,312	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	97	0	24	0	0	58
Missouri	0	0	0	47	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**8**	**0**	**3**	**0**	**0**	**5**
Delaware	0	54	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	28	0	13	0	0	0
Georgia	0	128	0	9	0	0	0
Maryland	0	6	0	9	0	0	1
North Carolina	47	31	0	10	0	0	61
South Carolina	0	0	0	5	0	0	62
Virginia	11	14	0	2	0	0	46
West Virginia	6	0	0	24	0	0	26
East South Central	**0**	**122**	**0**	**2**	**0**	**0**	**180**
Alabama	0	158	0	2	0	0	0
Kentucky	0	0	0	0	0	0	180
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**6**	**0**	**1**	**4**	**0**	**16**
Arkansas	0	0	0	2	0	0	55
Louisiana	0	0	0	9	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	0	1	4	0	0
Mountain	**2**	**6**	**0**	**2**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	53
Idaho	0	0	0	25	0	0	29
Montana	3	9	0	11	0	0	67
Nevada	0	0	0	0	0	0	45
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**4**	**0**	**1**	**0**	**0**	**23**
California	0	0	0	1	0	0	27
Oregon	0	0	0	2	0	0	57
Washington	0	4	0	16	0	0	46
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	43	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**3**	**24**	**1**	**6**	**0**	**5**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	46	10	0	0	2
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	11	7	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	81	12	0	0	19
Vermont	0	0	0	41	31	0	0	17
Middle Atlantic	**0**	**0**	**0**	**10**	**7**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	19	10	0	0	2
Pennsylvania	0	0	0	42	11	0	0	1
East North Central	**0**	**0**	**0**	**16**	**7**	**0**	**17**	**1**
Illinois	0	0	0	31	10	0	0	1
Indiana	0	0	0	23	14	0	0	5
Michigan	0	0	0	0	12	0	25	2
Ohio	0	0	0	32	9	0	0	1
Wisconsin	0	0	0	57	22	0	0	2
West North Central	**0**	**0**	**0**	**8**	**6**	**0**	**0**	**5**
Iowa	0	0	0	0	15	0	0	7
Kansas	0	0	0	101	4	0	0	4
Minnesota	0	0	0	8	10	0	0	9
Missouri	0	0	0	35	20	0	0	26
Nebraska	0	0	0	54	14	0	0	14
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	215	27	0	0	27
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	51	36	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	24	4	0	1	9
Georgia	0	0	0	7	5	0	0	8
Maryland	0	0	0	18	16	0	0	2
North Carolina	0	0	0	4	4	0	0	5
South Carolina	0	0	0	34	18	0	0	5
Virginia	0	0	0	24	13	0	0	2
West Virginia	0	0	0	0	23	0	0	5
East South Central	**0**	**0**	**0**	**14**	**13**	**0**	**0**	**2**
Alabama	0	0	0	25	15	0	0	2
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	9	11	0	0	0
Tennessee	0	0	0	30	32	0	0	31
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	30	0	0	1
Louisiana	0	0	0	0	40	0	0	4
Oklahoma	0	0	0	0	4	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**8**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	5	5	0	0	1
Colorado	0	0	0	11	5	0	0	4
Idaho	0	35	0	10	15	0	0	12
Montana	0	0	0	76	27	0	0	3
Nevada	0	9	0	4	5	0	0	3
New Mexico	0	0	0	12	5	0	0	4
Utah	0	22	0	7	7	0	0	5
Wyoming	0	0	0	0	23	0	0	16
Pacific Contiguous	**0**	**4**	**0**	**2**	**3**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	23	0	22	10	0	0	5
Washington	0	0	0	0	18	0	0	6
Pacific Noncontiguous	**0**	**22**	**0**	**23**	**17**	**0**	**0**	**4**
Alaska	0	0	0	0	143	0	0	45
Hawaii	0	22	0	23	16	0	0	4
U.S. Total	**0**	**4**	**0**	**2**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**4**	**0**	**0**	**8**
Connecticut	0	46	0	4	0	0	28
Maine	0	2	0	45	0	0	10
Massachusetts	0	42	0	6	0	0	21
New Hampshire	0	892	0	0	0	0	16
Rhode Island	0	168	0	19	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**11**	**0**	**2**	**0**	**0**	**7**
New Jersey	0	44	0	6	0	0	194
New York	0	30	0	3	0	0	9
Pennsylvania	2	11	0	2	0	0	10
East North Central	**0**	**3**	**39**	**3**	**10**	**0**	**28**
Illinois	0	5	0	10	0	0	42
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	87
Ohio	0	4	39	4	24	0	36
Wisconsin	0	0	0	0	0	0	78
West North Central	**0**	**35**	**0**	**26**	**0**	**0**	**46**
Iowa	0	36	0	1,312	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	97	0	24	0	0	58
Missouri	0	0	0	47	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**8**	**0**	**3**	**0**	**0**	**5**
Delaware	0	54	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	28	0	13	0	0	0
Georgia	0	128	0	9	0	0	0
Maryland	0	6	0	9	0	0	1
North Carolina	47	31	0	10	0	0	61
South Carolina	0	0	0	5	0	0	62
Virginia	11	14	0	2	0	0	46
West Virginia	6	0	0	24	0	0	26
East South Central	**0**	**122**	**0**	**2**	**0**	**0**	**180**
Alabama	0	158	0	2	0	0	0
Kentucky	0	0	0	0	0	0	180
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**6**	**0**	**1**	**4**	**0**	**16**
Arkansas	0	0	0	2	0	0	55
Louisiana	0	0	0	9	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	14	0	1	4	0	0
Mountain	**2**	**6**	**0**	**2**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	8	0	0	53
Idaho	0	0	0	25	0	0	29
Montana	3	9	0	11	0	0	67
Nevada	0	0	0	0	0	0	45
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**4**	**0**	**1**	**0**	**0**	**23**
California	0	0	0	1	0	0	27
Oregon	0	0	0	2	0	0	57
Washington	0	4	0	16	0	0	46
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	43	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**3**	**24**	**1**	**6**	**0**	**5**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	46	10	0	0	2
Maine	0	0	0	0	11	0	0	11
Massachusetts	0	0	0	11	7	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	81	12	0	0	19
Vermont	0	0	0	41	31	0	0	17
Middle Atlantic	**0**	**0**	**0**	**10**	**7**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	19	10	0	0	2
Pennsylvania	0	0	0	42	11	0	0	1
East North Central	**0**	**0**	**0**	**16**	**7**	**0**	**17**	**1**
Illinois	0	0	0	31	10	0	0	1
Indiana	0	0	0	23	14	0	0	5
Michigan	0	0	0	0	12	0	25	2
Ohio	0	0	0	32	9	0	0	1
Wisconsin	0	0	0	57	22	0	0	2
West North Central	**0**	**0**	**0**	**8**	**6**	**0**	**0**	**5**
Iowa	0	0	0	0	15	0	0	7
Kansas	0	0	0	101	4	0	0	4
Minnesota	0	0	0	8	10	0	0	9
Missouri	0	0	0	35	20	0	0	26
Nebraska	0	0	0	54	14	0	0	14
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	215	27	0	0	27
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	51	36	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	24	4	0	1	9
Georgia	0	0	0	7	5	0	0	8
Maryland	0	0	0	18	16	0	0	2
North Carolina	0	0	0	4	4	0	0	5
South Carolina	0	0	0	34	18	0	0	5
Virginia	0	0	0	24	13	0	0	2
West Virginia	0	0	0	0	23	0	0	5
East South Central	**0**	**0**	**0**	**14**	**13**	**0**	**0**	**2**
Alabama	0	0	0	25	15	0	0	2
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	9	11	0	0	0
Tennessee	0	0	0	30	32	0	0	31
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	30	0	0	1
Louisiana	0	0	0	0	40	0	0	4
Oklahoma	0	0	0	0	4	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**8**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	5	5	0	0	1
Colorado	0	0	0	11	5	0	0	4
Idaho	0	35	0	10	15	0	0	12
Montana	0	0	0	76	27	0	0	3
Nevada	0	9	0	4	5	0	0	3
New Mexico	0	0	0	12	5	0	0	4
Utah	0	22	0	7	7	0	0	5
Wyoming	0	0	0	0	23	0	0	16
Pacific Contiguous	**0**	**4**	**0**	**2**	**3**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	23	0	22	10	0	0	5
Washington	0	0	0	0	18	0	0	6
Pacific Noncontiguous	**0**	**22**	**0**	**23**	**17**	**0**	**0**	**4**
Alaska	0	0	0	0	143	0	0	45
Hawaii	0	22	0	23	16	0	0	4
U.S. Total	**0**	**4**	**0**	**2**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, July 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**28**	**0**	**18**	**0**	**0**	**0**
Connecticut	0	20,007	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	49	0	31	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**	**33**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	42	0	20	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**37**	**2**	**0**	**8**	**0**	**0**	**0**
Illinois	79	0	0	25	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	10	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0
West North Central	**0**	**20**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	23	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	968	0	0	0	0	0
South Atlantic	**0**	**5**	**0**	**2**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	70	0	0	0	0	0
Maryland	0	0	0	2	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**	**19**	**0**	**0**	**512**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	32	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	21	0	0	512
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	34	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**91**	**0**	**3**	**0**	**0**	**0**
California	0	53	0	3	0	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	214	0	294	0	0	0
Pacific Noncontiguous	**43**	**23**	**0**	**0**	**0**	**0**	**180**
Alaska	43	247	0	0	0	0	180
Hawaii	0	0	0	0	0	0	0
U.S. Total	**18**	**12**	**0**	**4**	**0**	**0**	**103**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, July 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**	**87**	**3**	**0**	**0**	**12**
Connecticut	0	0	0	0	0	0	0	25
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	87	14	0	0	26
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**	**26**	**8**	**0**	**4**	**7**
New Jersey	0	0	0	27	15	0	0	9
New York	0	0	0	103	10	0	8	12
Pennsylvania	0	0	0	112	15	0	0	6
East North Central	**0**	**0**	**0**	**195**	**8**	**0**	**0**	**6**
Illinois	0	0	0	0	485	0	0	24
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	195	63	0	0	3
Wisconsin	0	0	0	0	36	0	0	18
West North Central	**0**	**0**	**0**	**0**	**25**	**0**	**50**	**7**
Iowa	0	0	0	0	69	0	0	6
Minnesota	0	0	0	0	97	0	50	23
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	968
South Atlantic	**0**	**0**	**0**	**31**	**13**	**0**	**0**	**4**
Delaware	0	0	0	260	135	0	0	135
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	131	53	0	0	35
Georgia	0	0	0	187	142	0	0	94
Maryland	0	0	0	147	115	0	0	4
North Carolina	0	0	0	33	32	0	0	20
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	6	0	0	3
East South Central	**0**	**0**	**0**	**143**	**143**	**0**	**0**	**15**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	143	143	0	0	15
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**18**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	32
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	20
Mountain	**0**	**0**	**0**	**33**	**30**	**0**	**0**	**10**
Arizona	0	0	0	84	84	0	0	11
Colorado	0	0	0	88	88	0	0	47
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	39	39	0	0	23
New Mexico	0	0	0	0	376	0	0	35
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**31**	**11**	**0**	**0**	**4**
California	0	0	0	31	11	0	0	4
Oregon	0	0	0	0	68	0	0	40
Washington	0	0	0	0	119	0	0	109
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**22**
Alaska	0	0	0	0	0	0	0	61
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**15**	**5**	**0**	**2**	**3**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**28**	**0**	**18**	**0**	**0**	**0**
Connecticut	0	20,007	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	49	0	31	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**	**33**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	42	0	20	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**37**	**2**	**0**	**8**	**0**	**0**	**0**
Illinois	79	0	0	25	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	10	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0
West North Central	**0**	**20**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	23	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	968	0	0	0	0	0
South Atlantic	**0**	**5**	**0**	**2**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	70	0	0	0	0	0
Maryland	0	0	0	2	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**	**19**	**0**	**0**	**512**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	32	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	21	0	0	512
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	34	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**91**	**0**	**3**	**0**	**0**	**0**
California	0	53	0	3	0	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	214	0	294	0	0	0
Pacific Noncontiguous	**43**	**23**	**0**	**0**	**0**	**0**	**180**
Alaska	43	247	0	0	0	0	180
Hawaii	0	0	0	0	0	0	0
U.S. Total	**18**	**12**	**0**	**4**	**0**	**0**	**103**

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

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

Commercial Sector by Census Division and State, Year-to-Date through July 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**	**87**	**3**	**0**	**0**	**12**
Connecticut	0	0	0	0	0	0	0	25
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	87	14	0	0	26
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**	**26**	**8**	**0**	**4**	**7**
New Jersey	0	0	0	27	15	0	0	9
New York	0	0	0	103	10	0	8	12
Pennsylvania	0	0	0	112	15	0	0	6
East North Central	**0**	**0**	**0**	**195**	**8**	**0**	**0**	**6**
Illinois	0	0	0	0	485	0	0	24
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	195	63	0	0	3
Wisconsin	0	0	0	0	36	0	0	18
West North Central	**0**	**0**	**0**	**0**	**25**	**0**	**50**	**7**
Iowa	0	0	0	0	69	0	0	6
Minnesota	0	0	0	0	97	0	50	23
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	968
South Atlantic	**0**	**0**	**0**	**31**	**13**	**0**	**0**	**4**
Delaware	0	0	0	260	135	0	0	135
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	131	53	0	0	35
Georgia	0	0	0	187	142	0	0	94
Maryland	0	0	0	147	115	0	0	4
North Carolina	0	0	0	33	32	0	0	20
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	6	0	0	3
East South Central	**0**	**0**	**0**	**143**	**143**	**0**	**0**	**15**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	143	143	0	0	15
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**18**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	32
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	20
Mountain	**0**	**0**	**0**	**33**	**30**	**0**	**0**	**10**
Arizona	0	0	0	84	84	0	0	11
Colorado	0	0	0	88	88	0	0	47
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	39	39	0	0	23
New Mexico	0	0	0	0	376	0	0	35
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**31**	**11**	**0**	**0**	**4**
California	0	0	0	31	11	0	0	4
Oregon	0	0	0	0	68	0	0	40
Washington	0	0	0	0	119	0	0	109
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**22**
Alaska	0	0	0	0	0	0	0	61
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**15**	**5**	**0**	**2**	**3**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**106**	**65**	**0**	**13**	**0**	**0**	**25**
Connecticut	0	0	0	15	0	0	0
Maine	106	69	0	28	0	0	26
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**15**	**15**	**52**	**11**	**23**	**0**	**21**
New Jersey	0	423	0	14	0	0	0
New York	0	12	0	14	0	0	21
Pennsylvania	28	68	74	15	32	0	0
East North Central	**7**	**11**	**0**	**8**	**11**	**0**	**37**
Illinois	6	0	0	17	0	0	0
Indiana	0	1	0	10	12	0	0
Michigan	57	77	0	20	0	0	74
Ohio	84	0	0	10	0	0	0
Wisconsin	25	286	0	20	0	0	41
West North Central	**4**	**0**	**0**	**3**	**0**	**0**	**34**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	32	0	0	0
Minnesota	17	0	0	0	0	0	34
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Atlantic	**30**	**66**	**66**	**7**	**35**	**0**	**23**
Delaware	0	0	0	17	40	0	0
Florida	64	134	0	15	0	0	0
Georgia	86	121	66	19	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	28	107	0	39	0	0	462
South Carolina	208	0	0	11	0	0	0
Virginia	24	339	0	9	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**9**	**177**	**0**	**9**	**26**	**0**	**0**
Alabama	105	186	0	18	44	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**38**	**9**	**2**	**6**	**0**	**0**
Arkansas	0	76	0	26	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	26	2	9	0	0
Mountain	**9**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	71	0	0	37	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	18	0	0	10	0	0	0
Pacific Contiguous	**0**	**79**	**0**	**1**	**3**	**0**	**0**
California	0	46	0	1	3	0	0
Oregon	0	0	0	56	0	0	0
Washington	0	92	0	38	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**84**
Alaska	0	14	0	0	0	0	0
Hawaii	0	0	0	0	0	0	84
U.S. Total	**4**	**11**	**19**	**1**	**6**	**0**	**14**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, July 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**	**7**	**0**	**0**	**7**
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**74**	**7**	**0**	**0**	**7**
New Jersey	0	0	0	95	95	0	0	8
New York	0	0	0	0	15	0	0	7
Pennsylvania	0	0	0	115	8	0	0	10
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**4**	**4**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	59	0	0	9
Michigan	0	0	0	0	8	0	0	8
Ohio	0	0	0	0	19	0	0	11
Wisconsin	0	0	0	0	9	0	56	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	29
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	34
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**3**
Delaware	0	0	0	0	123	0	0	16
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	26	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	5
South Carolina	0	0	0	0	3	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	16	0	0	11
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	5	0	0	3
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**2**
Arkansas	0	0	0	0	5	0	0	5
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	4	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	10
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**48**	**5**	**0**	**3**	**1**
California	0	0	0	48	10	0	3	1
Oregon	0	0	0	0	12	0	0	12
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**250**	**0**	**0**	**11**
Alaska	0	0	0	0	250	0	0	10
Hawaii	0	0	0	0	0	0	0	15
U.S. Total	**0**	**0**	**0**	**38**	**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 July 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**106**	**65**	**0**	**13**	**0**	**0**	**25**
Connecticut	0	0	0	15	0	0	0
Maine	106	69	0	28	0	0	26
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**15**	**15**	**52**	**11**	**23**	**0**	**21**
New Jersey	0	423	0	14	0	0	0
New York	0	12	0	14	0	0	21
Pennsylvania	28	68	74	15	32	0	0
East North Central	**7**	**11**	**0**	**8**	**11**	**0**	**37**
Illinois	6	0	0	17	0	0	0
Indiana	0	1	0	10	12	0	0
Michigan	57	77	0	20	0	0	74
Ohio	84	0	0	10	0	0	0
Wisconsin	25	286	0	20	0	0	41
West North Central	**4**	**0**	**0**	**3**	**0**	**0**	**34**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	32	0	0	0
Minnesota	17	0	0	0	0	0	34
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Atlantic	**30**	**66**	**66**	**7**	**35**	**0**	**23**
Delaware	0	0	0	17	40	0	0
Florida	64	134	0	15	0	0	0
Georgia	86	121	66	19	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	28	107	0	39	0	0	462
South Carolina	208	0	0	11	0	0	0
Virginia	24	339	0	9	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**9**	**177**	**0**	**9**	**26**	**0**	**0**
Alabama	105	186	0	18	44	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**38**	**9**	**2**	**6**	**0**	**0**
Arkansas	0	76	0	26	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	26	2	9	0	0
Mountain	**9**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	71	0	0	37	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	18	0	0	10	0	0	0
Pacific Contiguous	**0**	**79**	**0**	**1**	**3**	**0**	**0**
California	0	46	0	1	3	0	0
Oregon	0	0	0	56	0	0	0
Washington	0	92	0	38	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**84**
Alaska	0	14	0	0	0	0	0
Hawaii	0	0	0	0	0	0	84
U.S. Total	**4**	**11**	**19**	**1**	**6**	**0**	**14**

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

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

Industrial Sector by Census Division and State, Year-to-Date through July 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**	**7**	**0**	**0**	**7**
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**74**	**7**	**0**	**0**	**7**
New Jersey	0	0	0	95	95	0	0	8
New York	0	0	0	0	15	0	0	7
Pennsylvania	0	0	0	115	8	0	0	10
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**4**	**4**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	59	0	0	9
Michigan	0	0	0	0	8	0	0	8
Ohio	0	0	0	0	19	0	0	11
Wisconsin	0	0	0	0	9	0	56	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	29
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	34
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**3**
Delaware	0	0	0	0	123	0	0	16
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	26	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	5
South Carolina	0	0	0	0	3	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	16	0	0	11
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	5	0	0	3
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**2**
Arkansas	0	0	0	0	5	0	0	5
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	4	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	10
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**48**	**5**	**0**	**3**	**1**
California	0	0	0	48	10	0	3	1
Oregon	0	0	0	0	12	0	0	12
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**250**	**0**	**0**	**11**
Alaska	0	0	0	0	250	0	0	10
Hawaii	0	0	0	0	0	0	0	15
U.S. Total	**0**	**0**	**0**	**38**	**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, July 2017

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 i[th] utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the i[th] utility's month m, 2015 (or the current year) reported solar PV capacity

w_i is the weight factor, which is the inverse of $x_{i_{2013}}$

β_1 is effectively the growth rate of reported month m solar PV capacity

e_i is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the

monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the "Annual Energy Outlook" based on our "NEMS" modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL's System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts "orientations." The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A further description of this model is located here. A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities'' capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new "net" capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, US census region and US total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

Appendix 1- MSAs

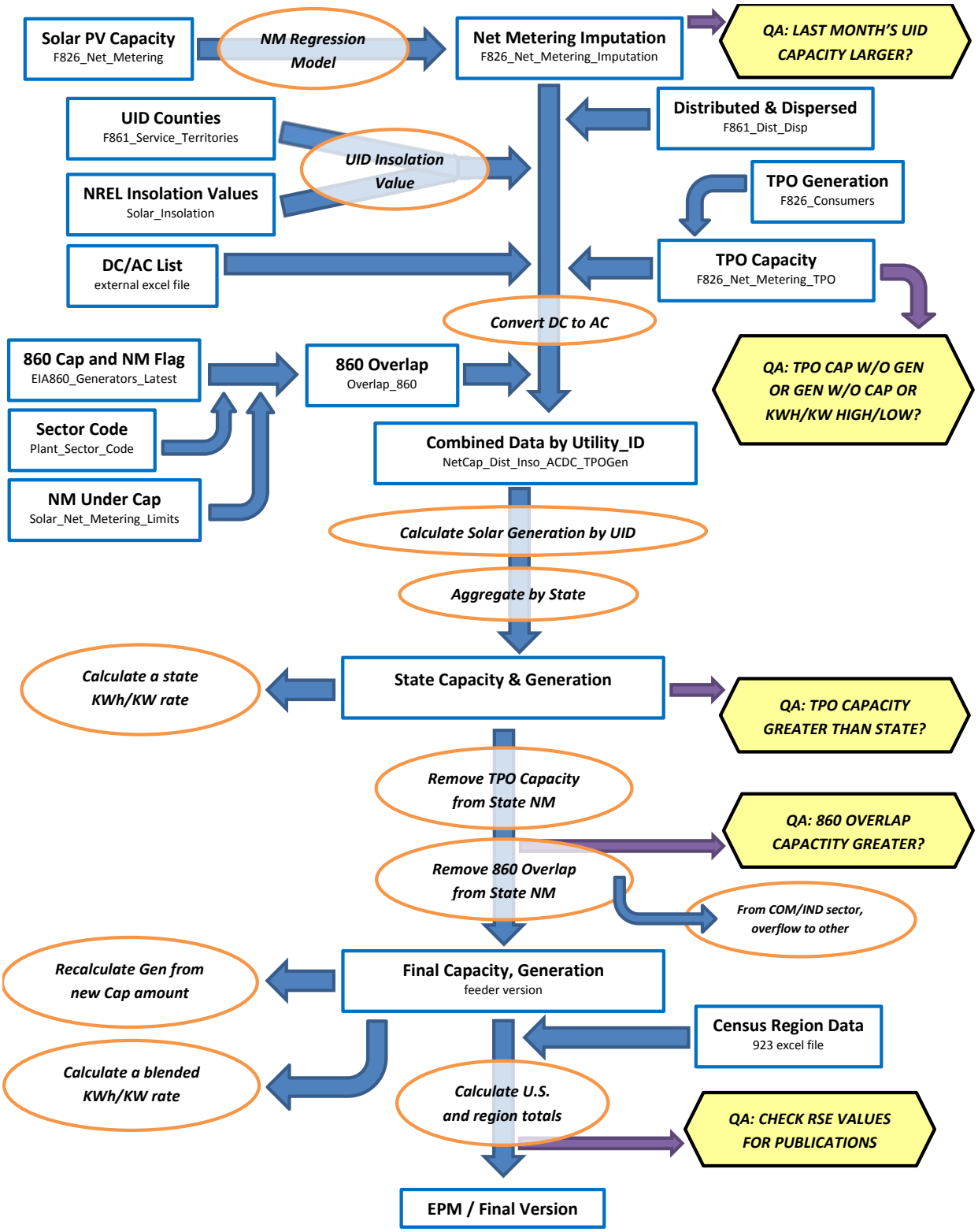
TMY3 (1991-2005) Weather Stations by MSA

Site	Weather Location	MSA
1	USA NY New York Central Park Obs.	New York-Newark-Jersey City, NY-NJ-PA MSA
2	USA CA Los Angeles Intl Airport	Los Angeles-Long Beach-Anaheim, CA MSA
3	USA IL Chicago Midway Airport	Chicago-Naperville-Elgin, IL-IN-WI MSA
4	USA TX Dallas-fort Worth Intl Airport	Dallas-Fort Worth-Arlington, TX MSA
5	USA TX Houston Bush Intercontinental	Houston-The Woodlands-Sugar Land, TX MSA
6	USA PA Philadelphia Int'l Airport	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA
7	USA VA Washington Dc Reagan Airport	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA
8	USA FL Miami Intl Airport	Miami-Fort Lauderdale-West Palm Beach, FL MSA
9	USA GA Atlanta Hartsfield Intl Airport	Atlanta-Sandy Springs-Roswell, GA MSA
10	USA MA Boston Logan Int'l Airport	Boston-Cambridge-Newton, MA-NH MSA
11	USA CA San Francisco Intl Airport	San Francisco–Oakland–Hayward, CA MSA
12	USA AZ Phoenix Sky Harbor Intl Airport	Phoenix-Mesa-Scottsdale, AZ MSA
13	USA CA Riverside Municipal Airport	Riverside-San Bernardino-Ontario, CA MSA
14	USA MI Detroit City Airport	Detroit-Warren-Dearborn, MI MSA
15	USA WA Seattle Seattle-Tacoma Intl Airport	Seattle-Tacoma-Bellevue, WA MSA
16	USA MN Minneapolis-St. Paul Int'l Arp	Minneapolis-St. Paul-Bloomington, MN-WI MSA
17	USA CA San Diego Lindbergh Field	San Diego-Carlsbad, CA MSA
18	USA FL Tampa Int'l Airport	Tampa-St. Petersburg-Clearwater, FL MSA
19	USA MO St Louis Lambert Int'l Airport	St. Louis, MO-IL MSA
20	USA MD Baltimore-Washington Int'l Airport	Baltimore-Columbia-Towson, MD MSA
21	USA CO Denver Centennial [Golden - NREL]	Denver-Aurora-Lakewood, CO MSA
22	USA PA Pittsburgh Allegheny Co Airport	Pittsburgh, PA MSA
23	USA NC Charlotte Douglas Intl Airport	Charlotte-Concord-Gastonia, NC-SC MSA
24	USA OR Portland Hillsboro	Portland-Vancouver-Hillsboro, OR-WA MSA
25	USA TX San Antonio Intl Airport	San Antonio-New Braunfels, TX MSA
26	USA FL Orlando Intl Airport	Orlando-Kissimmee-Sanford, FL MSA
27	USA CA Sacramento Executive Airport	Sacramento–Roseville–Arden-Arcade, CA MSA
28	USA OH Cincinnati Municipal Airport	Cincinnati, OH-KY-IN MSA
29	USA OH Cleveland Hopkins Intl Airport	Cleveland-Elyria, OH MSA
30	USA MO Kansas City Int'l Airport	Kansas City, MO-KS MSA
31	USA NV Las Vegas McCarran Intl Airport	Las Vegas-Henderson-Paradise, NV MSA
32	USA OH Columbus Port Columbus Intl A	Columbus, OH MSA
33	USA IN Indianapolis Intl Airport	Indianapolis-Carmel-Anderson, IN MSA
34	USA CA San Jose Intl Airport	San Jose-Sunnyvale-Santa Clara, CA MSA
35	USA TX Austin Mueller Municipal Airport	Austin-Round Rock, TX MSA
36	USA TN Nashville Int'l Airport	Nashville-Davidson–Murfreesboro–Franklin, TN MSA

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worchester Regional Airport	Worcester, MA-CT MSA
59	USA NM Albuquerque Intl Airport	Albuquerque, NM MSA
60	USA NE Omaha Eppley Airfield	Omaha-Council Bluffs, NE-IA MSA
61	USA NY Albany County Airport	Albany-Schenectady-Troy, NY MSA
62	USA CA Bakersfield Meadows Field	Bakersfield, CA MSA
63	USA CT New Haven Tweed Airport	New Haven-Milford, CT MSA
64	USA TN Knoxville McGhee Tyson Airport	Knoxville, TN MSA
65	USA SC Greenville Downtown Airport	Greenville-Anderson-Mauldin, SC MSA
66	USA CA Oxnard Airport	Oxnard-Thousand Oaks-Ventura, CA MSA
67	USA TX El Paso Int'l Airport	El Paso, TX MSA
68	USA PA Allentown Lehigh Valley Intl	Allentown-Bethlehem-Easton, PA-NJ MSA
69	USA LA Baton Rouge Ryan Airport	Baton Rouge, LA MSA
70	USA TX McCallen Miller Intl Airport	McAllen-Edinburg-Mission, TX MSA
71	USA OH Dayton Int'l Airport	Dayton, OH MSA
72	USA SC Columbia Metro Airport	Columbia, SC MSA
73	USA NC Greensboro Piedmont Triad Int'l Airport	Greensboro-High Point, NC MSA
74	USA FL Sarasota Bradenton	North Port-Sarasota-Bradenton, FL MSA
75	USA AR Little Rock Adams Field	Little Rock-North Little Rock-Conway, AR MSA
76	USA SC Charleston Intl Airport	Charleston-North Charleston, SC MSA
77	USA OH Akron Akron-canton Reg. Airport	Akron, OH MSA
78	USA CA Stockton Metropolitan Airport	Stockton-Lodi, CA MSA

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worchester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton–Wilkes-Barre–Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
98	USA FL Melbourne Regional Airport	Palm Bay-Melbourne-Titusville, FL MSA
99	USA TN Chattanooga Lovell Field Airport	Chattanooga, TN-GA MSA
100	USA WA Spokane Int'l Airport	Spokane-Spokane Valley, WA MSA

Appendix 2 – Flow diagram of data sources and analysis



[1] The basic technique employed is described in the paper "Model-Based Sampling and Inference," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). See the following sources: Knaub, J.R., Jr. (1999a), "Using Prediction-Oriented Software for Survey Estimation," InterStat, August 1999, http://interstat.statjournals.net/; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, http://interstat.statjournals.net/.

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, July 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	5.99	--	1.03
Connecticut	--	5.80	--	1.03
Maine	26.10	6.25	--	1.02
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.34	5.99	--	1.03
New Jersey	26.05	5.72	--	1.04
New York	22.86	6.01	--	1.03
Pennsylvania	23.24	6.00	--	1.04
East North Central	19.99	5.80	27.52	1.04
Illinois	17.75	5.80	--	1.01
Indiana	22.45	5.77	--	1.06
Michigan	18.46	5.88	27.59	1.04
Ohio	24.85	5.80	--	1.06
Wisconsin	17.78	5.80	26.92	1.03
West North Central	16.64	5.79	27.60	1.04
Iowa	17.71	5.71	27.60	1.05
Kansas	17.17	5.73	--	1.03
Minnesota	17.73	5.80	--	1.04
Missouri	17.60	5.78	--	1.01
Nebraska	16.95	5.75	--	1.08
North Dakota	13.32	6.00	--	1.01
South Dakota	16.50	--	--	--
South Atlantic	23.53	5.83	28.04	1.03
Delaware	--	5.67	--	1.03
District of Columbia	--	--	--	--
Florida	23.55	5.80	28.04	1.02
Georgia	20.06	5.84	--	1.03
Maryland	24.98	5.81	--	1.04
North Carolina	24.91	5.89	--	1.04
South Carolina	24.92	5.79	--	1.03
Virginia	22.34	5.89	--	1.05
West Virginia	24.65	5.83	--	1.07
East South Central	20.97	5.78	--	1.03
Alabama	20.01	5.61	--	1.03
Kentucky	22.19	5.85	--	1.01
Mississippi	14.80	5.80	--	1.03
Tennessee	22.28	5.76	--	1.01
West South Central	16.12	5.77	28.52	1.03
Arkansas	17.62	5.82	--	1.02
Louisiana	17.11	--	28.52	1.03
Oklahoma	17.30	--	--	1.04
Texas	15.64	5.73	--	1.03
Mountain	18.76	5.77	--	1.05
Arizona	19.82	5.70	--	1.04
Colorado	18.34	--	--	1.08
Idaho	--	--	--	--
Montana	16.96	5.92	--	1.04
Nevada	18.68	5.81	--	1.04
New Mexico	18.99	5.66	--	1.04
Utah	21.21	5.87	--	1.04
Wyoming	17.65	5.81	--	1.05
Pacific Contiguous	17.76	5.93	--	1.04
California	22.94	--	--	1.04
Oregon	--	5.83	--	1.06
Washington	17.13	6.00	--	1.10
Pacific Noncontiguous	19.08	6.11	--	1.00
Alaska	14.00	5.60	--	1.00
Hawaii	19.64	6.11	--	--
U.S. Total	19.07	5.98	28.18	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

Item	2013			2014			2015		
	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.