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U.S. Energy Information Administration

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with Data for March 2018

May 30, 2018 Revision: The 12-month rolling average was updated in Table 8.3.

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This issue of the *Electric Power Monthly* includes a new Chapter 8 with data for the Commonwealth of Puerto Rico. The chapter currently includes data on electricity sales to ultimate consumers. Coverage will eventually be expanded to include power plant characteristics, operations, and generation data. Note that the data for Puerto Rico is not included in the other tables in the EPM, which continue to show data for the 50 states and the District of Columbia.

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.”

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Net Generation and Consumption of Fuels for March														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	80,691	89,427	-9.8%	58,622	66,119	21,362	22,607	25	32	681	669	0	0
Petroleum Liquids	Utility Scale Facilities	819	979	-16.3%	598	779	174	155	8	10	40	35	0	0
Petroleum Coke	Utility Scale Facilities	593	707	-16.1%	491	535	41	92	1	1	60	79	0	0
Natural Gas	Utility Scale Facilities	103,884	94,708	9.7%	49,147	45,959	46,971	40,738	610	638	7,156	7,372	0	0
Other Gas	Utility Scale Facilities	1,193	1,257	-5.1%	17	17	337	355	0	0	839	885	0	0
Nuclear	Utility Scale Facilities	67,033	65,093	3.0%	35,262	34,693	31,770	30,400	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	25,887	30,221	-14.3%	23,870	28,009	1,870	2,059	NM	NM	124	127	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	39,195	37,367	4.9%	4,682	4,708	31,766	29,937	269	273	2,478	2,449	0	0
... Wind	Utility Scale Facilities	27,275	26,133	4.4%	3,647	3,910	23,603	22,199	17	17	9	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,099	4,433	15.0%	473	281	4,574	4,101	46	48	6	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,630	3,662	-0.9%	350	309	898	1,002	5	3	2,376	2,349	0	0
... Other Biomass	Utility Scale Facilities	1,807	1,760	2.7%	121	128	1,398	1,335	201	205	87	91	0	0
... Geothermal	Utility Scale Facilities	1,385	1,380	0.4%	92	80	1,293	1,300	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-490	-521	-6.0%	-408	-455	-82	-66	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,110	1,052	5.5%	44	35	569	517	85	87	413	413	0	0
All Energy Sources	Utility Scale Facilities	319,916	320,291	-0.1%	172,325	180,401	134,779	126,794	1,021	1,066	11,792	12,030	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,414	1,987	21.5%	0	0	0	0	779	630	241	209	1,395	1,147
Estimated Total Solar Photovoltaic	All Facilities	7,256	6,123	18.5%	464	281	4,325	3,804	825	679	247	NM	1,395	1,147
Estimated Total Solar	All Facilities	7,513	6,419	17.0%	473	281	4,574	4,101	825	679	247	NM	1,395	1,147
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	44,444	48,700	-8.7%	32,318	35,717	11,869	12,738	7	9	250	235	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,414	1,673	-15.5%	1,066	1,342	294	278	13	16	41	37	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	226	273	-17.0%	198	214	15	40	0	0	13	18	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	755,250	693,489	8.9%	374,127	349,742	335,455	296,454	3,732	3,831	41,937	43,463	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,271	1,357	-6.3%	204	225	105	146	43	49	919	937	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	162	138	17.1%	4	4	14	10	25	30	119	94	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	57	85	-32.6%	1	1	9	10	1	2	46	72	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	101,580	98,721	2.9%	3,407	3,441	29,538	29,333	6,587	6,528	62,047	59,418	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	45,715	50,057	-8.7%	32,522	35,942	11,973	12,884	51	58	1,169	1,172	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,576	1,811	-13.0%	1,069	1,346	309	288	38	46	160	132	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	284	358	-20.7%	199	215	24	50	2	2	59	90	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	856,830	792,211	8.2%	377,534	353,183	364,993	325,787	10,319	10,359	103,983	102,882	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	127,099	162,579	-21.8%	106,658	128,574	19,740	33,116	72	124	629	765	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	28,809	33,436	-13.8%	18,896	21,144	8,171	10,478	428	432	1,313	1,382	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,241	1,008	23.1%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for March									
	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	March 2018	March 2017	Percentage Change	March 2018	March 2017	Percentage Change	March 2018	March 2017	Percentage Change
Residential	106,061	103,434	2.5%	13,780	13,332	3.4%	12.99	12.89	0.8%
Commercial	106,965	107,171	-0.2%	11,194	11,224	-0.3%	10.47	10.47	0.0%
Industrial	76,785	77,587	-1.0%	5,097	5,224	-2.4%	6.64	6.73	-1.3%
Transportation	625	644	-3.0%	58	61	-4.4%	9.33	9.47	-1.5%
All Sectors	290,435	288,836	0.6%	30,129	29,841	1.0%	10.37	10.33	0.4%

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 2018 and 2017

Net Generation and Consumption of Fuels for January through March														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	281,437	291,801	-3.6%	208,128	217,129	71,112	72,479	97	105	2,099	2,087	0	0
Petroleum Liquids	Utility Scale Facilities	6,831	3,040	124.7%	3,585	2,276	3,046	622	NM	31	147	111	0	0
Petroleum Coke	Utility Scale Facilities	2,226	2,312	-3.7%	1,836	1,818	229	300	3	3	159	191	0	0
Natural Gas	Utility Scale Facilities	309,802	267,195	15.9%	149,712	129,283	136,058	113,850	1,837	1,851	22,195	22,210	0	0
Other Gas	Utility Scale Facilities	3,345	3,568	-6.2%	62	50	953	1,009	0	0	2,331	2,509	0	0
Nuclear	Utility Scale Facilities	206,472	201,774	2.3%	108,569	107,029	97,902	94,745	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	76,902	82,616	-6.9%	71,144	76,377	5,339	5,808	69	69	351	362	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	110,700	98,137	12.8%	13,498	12,109	89,081	78,020	755	748	7,366	7,261	0	0
... Wind	Utility Scale Facilities	78,044	69,110	12.9%	10,836	10,041	67,139	59,012	44	39	26	18	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	12,399	9,081	36.5%	1,085	600	11,185	8,379	114	97	15	6	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	10,937	10,656	2.6%	965	855	2,877	2,809	20	18	7,074	6,974	0	0
... Other Biomass	Utility Scale Facilities	5,259	5,270	-0.2%	357	357	4,074	4,055	578	594	250	263	0	0
... Geothermal	Utility Scale Facilities	4,061	4,021	1.0%	255	256	3,806	3,765	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,352	-1,464	-7.6%	-1,109	-1,218	-243	-246	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	3,224	3,127	3.1%	116	103	1,701	1,610	243	250	1,164	1,163	0	0
All Energy Sources	Utility Scale Facilities	999,588	952,106	5.0%	555,540	544,956	405,178	368,197	3,057	3,057	35,812	35,895	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	5,843	4,613	26.7%	0	0	0	0	1,912	1,498	578	489	3,354	2,627
Estimated Total Solar Photovoltaic	All Facilities	17,665	13,173	34.1%	1,072	600	10,622	7,857	2,026	1,594	593	495	3,354	2,627
Estimated Total Solar	All Facilities	18,242	13,695	33.2%	1,085	600	11,185	8,379	2,026	1,594	593	495	3,354	2,627
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	154,738	159,972	-3.3%	114,074	118,002	39,866	41,204	27	30	771	736	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	11,768	5,220	125.5%	6,486	3,958	5,044	1,092	86	48	153	121	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	842	890	-5.4%	728	733	80	112	1	1	33	44	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,250,561	1,930,649	16.6%	1,135,637	962,990	973,716	825,144	11,095	11,133	130,113	131,383	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	3,974	4,095	-3.0%	649	723	379	409	145	148	2,799	2,814	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	954	481	98.5%	57	24	146	68	193	97	558	292	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	187	221	-15.2%	3	1	26	29	5	5	153	185	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	304,578	292,388	4.2%	10,361	10,400	87,741	86,539	20,873	20,689	185,602	174,761	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	158,712	164,067	-3.3%	114,723	118,726	40,246	41,613	173	178	3,571	3,550	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	12,722	5,700	123.2%	6,543	3,981	5,189	1,160	279	146	711	413	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,029	1,111	-7.4%	731	734	106	142	6	6	186	230	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,555,139	2,223,037	14.9%	1,145,998	973,390	1,061,458	911,682	31,968	31,822	315,716	306,143	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through March									
	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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	Percentage Change
Residential	368,380	334,037	10.3%	46,300	42,067	10.1%	12.57	12.59	-0.2%
Commercial	323,287	316,192	2.2%	33,982	32,853	3.4%	10.51	10.39	1.2%
Industrial	224,728	225,359	-0.3%	15,250	14,976	1.8%	6.79	6.65	2.1%
Transportation	2,011	1,947	3.3%	191	184	4.1%	9.51	9.44	0.7%
All Sectors	918,407	877,534	4.7%	95,723	90,079	6.3%	10.42	10.27	1.5%

YTD = Year to Date

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, 2018 and 2017

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal (1000 tons)	48,770	50,174	39.42	40.17	251	261	143,707	159,734	39.34	39.95
Petroleum Liquids (1000 barrels)	1,210	2,018	W	69.01	135	129	7,955	4,579	80.84	70.15
Petroleum Coke (1000 tons)	281	309	70.89	57.51	6	7	806	831	68.86	57.83
Natural Gas (1000 Mcf)	724,656	597,207	3.29	3.47	534	481	2,144,908	1,697,747	4.10	3.82

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal (1000 tons)	36,379	36,293	40.33	41.15	172	177	106,019	115,534	40.07	41.02
Petroleum Liquids (1000 barrels)	827	1,759	79.98	68.94	86	81	4,227	3,582	80.61	68.65
Petroleum Coke (1000 tons)	281	309	70.89	57.51	6	7	806	831	68.86	57.83
Natural Gas (1000 Mcf)	342,238	288,236	3.61	3.67	277	254	1,026,033	809,389	4.33	4.04

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal (1000 tons)	11,669	13,058	35.78	36.69	61	65	35,563	41,969	36.39	36.26
Petroleum Liquids (1000 barrels)	345	231	W	69.90	38	37	3,596	929	81.32	76.03
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	323,699	255,227	2.95	3.31	209	181	934,657	726,203	3.95	3.62

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal (1000 tons)	0	5	W	W	1	1	6	13	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)	746	662	W	W	3	3	2,252	1,924	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	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal (1000 tons)	722	819	W	W	17	18	2,119	2,218	W	W
Petroleum Liquids (1000 barrels)	38	29	W	66.36	11	11	132	68	77.29	69.80
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	57,973	53,082	W	W	45	43	181,967	160,231	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, 2018 and 2017

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal	940,506	966,998	2.04	2.08	251	261	2,742,645	3,064,862	2.06	2.08
Petroleum Liquids	7,265	11,990	W	11.62	135	129	47,894	27,416	13.38	11.72
Petroleum Coke	7,841	8,628	2.54	2.06	6	7	22,619	23,280	2.45	2.06
Natural Gas	748,917	616,876	3.18	3.36	534	481	2,215,495	1,754,928	3.97	3.69
Fossil Fuels	1,704,529	1,604,493	W	2.62	692	647	5,028,652	4,870,487	2.97	2.68

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal	700,041	702,185	2.10	2.13	172	177	2,028,545	2,226,792	2.09	2.13
Petroleum Liquids	5,017	10,468	13.19	11.58	86	81	25,594	21,529	13.30	11.42
Petroleum Coke	7,841	8,628	2.54	2.06	6	7	22,619	23,280	2.45	2.06
Natural Gas	353,555	297,754	3.50	3.56	277	254	1,059,407	836,651	4.20	3.91
Fossil Fuels	1,066,453	1,019,036	2.61	2.64	388	366	3,136,165	3,108,252	2.89	2.67

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal	225,377	247,658	1.85	1.93	61	65	669,780	790,828	1.93	1.92
Petroleum Liquids	2,014	1,344	W	12.02	38	37	21,471	5,461	13.53	12.93
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	334,931	263,669	2.85	3.21	209	181	966,240	750,801	3.82	3.51
Fossil Fuels	562,323	512,671	W	2.55	254	233	1,657,490	1,547,089	3.08	2.65

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal	5	104	W	W	1	1	130	307	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	768	680	W	W	3	3	2,321	1,988	W	W
Fossil Fuels	773	784	W	W	3	3	2,451	2,294	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	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
Coal	15,083	17,051	W	W	17	18	44,190	46,937	W	W
Petroleum Liquids	234	178	W	10.66	11	11	829	426	12.35	11.21
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	59,663	54,774	W	W	45	43	187,527	165,488	W	W
Fossil Fuels	74,981	72,002	W	W	47	45	232,545	212,851	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), 2008-March 2018
(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															
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,378,307	12,807	805,694	267,812	36,054	305,579	-6,686	13,754	4,076,675	18,812	51,483	54,866
2017	1,207,901	12,583	8,508	1,272,864	14,159	804,950	300,045	52,958	334,287	-6,495	13,045	4,014,804	24,139	73,828	77,097
Year 2016															
January	113,459	1,396	966	110,044	1,195	72,525	25,615	1,486	25,193	-312	1,153	352,719	980	2,380	2,465
February	92,705	1,299	910	98,552	1,062	65,638	24,139	2,242	26,496	-399	1,041	313,685	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,090	304,390	1,525	3,885	4,143
April	72,113	833	1,006	98,876	1,132	62,732	25,878	2,880	26,787	-452	1,109	292,894	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,195	316,784	1,879	4,916	5,304
June	116,034	972	1,005	131,395	1,043	67,175	23,237	3,473	22,763	-497	1,180	367,781	1,928	4,990	5,401
July	136,316	1,273	1,049	151,554	1,077	70,349	21,455	3,945	24,428	-784	1,225	411,887	2,000	5,474	5,945
August	135,635	1,258	1,078	154,760	1,064	71,526	19,570	3,969	20,496	-902	1,248	409,701	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,168	351,484	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,108	312,945	1,552	4,495	4,743
November	86,940	1,070	799	93,942	1,013	65,179	18,808	2,767	26,052	-607	1,098	297,062	1,257	3,840	4,024
December	118,747	1,166	869	96,364	1,037	71,662	22,528	2,424	30,159	-753	1,139	345,343	1,167	3,500	3,591
Year 2017															
January	115,501	1,156	917	91,447	1,120	73,121	27,853	2,152	27,600	-435	1,085	341,518	1,244	3,306	3,396
February	86,873	905	687	81,040	1,191	63,560	24,542	2,497	28,521	-508	990	290,297	1,383	3,744	3,880
March	89,427	979	707	94,708	1,257	65,093	30,221	4,433	32,934	-521	1,052	320,291	1,987	6,123	6,419
April	81,533	884	404	86,178	1,157	56,743	29,320	4,774	32,154	-439	1,044	293,752	2,211	6,674	6,985
May	92,881	1,002	772	96,777	1,182	61,313	32,177	5,766	29,118	-423	1,081	321,645	2,440	7,805	8,207
June	107,728	1,006	873	116,061	1,211	67,011	30,424	6,252	26,296	-568	1,096	357,390	2,503	8,290	8,755
July	127,959	940	807	144,720	1,261	71,314	25,745	5,505	22,814	-759	1,205	401,510	2,578	7,771	8,083
August	119,780	997	727	139,610	1,321	72,384	21,241	5,401	20,101	-638	1,217	382,140	2,501	7,562	7,903
Sept	98,404	987	678	116,728	1,120	68,098	18,965	5,168	23,647	-606	1,030	334,219	2,240	7,059	7,408
October	90,087	999	535	106,867	1,014	65,995	17,211	4,830	31,344	-463	1,025	319,443	2,002	6,518	6,832
November	91,151	922	693	92,585	1,198	66,618	19,840	3,120	29,935	-478	1,075	306,660	1,574	4,563	4,694
December	106,578	1,805	708	106,144	1,127	73,700	22,507	3,059	29,822	-656	1,145	345,939	1,476	4,413	4,536
Year 2018															
January	118,696	5,220	915	109,601	1,060	74,649	25,422	3,262	33,821	-547	1,115	373,213	1,655	4,789	4,917
February	82,051	792	718	96,317	1,092	64,790	25,593	4,037	30,385	-315	999	306,458	1,774	5,621	5,812
March	80,691	819	593	103,884	1,193	67,033	25,887	5,099	34,096	-490	1,110	319,916	2,414	7,256	7,513
Year to Date															
2016	278,337	3,569	2,803	312,486	3,454	204,312	77,143	6,345	80,156	-1,094	3,284	970,794	3,649	9,410	9,994
2017	291,801	3,040	2,312	267,195	3,568	201,774	82,616	9,081	89,056	-1,464	3,127	952,106	4,613	13,173	13,695
2018	281,437	6,831	2,226	309,802	3,345	206,472	76,902	12,399	98,301	-1,352	3,224	999,588	5,843	17,665	18,242
Rolling 12 Months Ending in March															
2017	1,252,613	12,479	10,706	1,333,016	12,922	803,156	273,284	38,791	314,479	-7,056	13,597	4,057,987	19,777	55,246	58,567
2018	1,197,537	16,374	8,423	1,315,472	13,936	809,647	294,331	56,275	343,532	-6,383	13,142	4,062,286	25,369	78,321	81,644

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 2016 and prior years are final. Values for 2017 and 2018 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), 2008-March 2018
(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													
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,993	32,670	3,384	40,947	11,218	7,265	3,331	15,826	267,812	609,445	18,812	51,483	54,866
2017	254,254	49,688	3,269	43,284	10,876	6,964	2,933	15,976	300,045	687,289	24,139	73,828	77,097
Year 2016													
January	18,466	1,400	86	3,600	915	603	277	1,332	25,615	52,294	980	2,380	2,465
February	20,138	2,000	241	3,406	886	537	285	1,243	24,139	52,877	1,145	3,145	3,386
March	21,939	2,360	257	3,403	949	579	281	1,315	27,390	58,474	1,525	3,885	4,143
April	20,799	2,606	273	2,967	932	593	287	1,209	25,878	55,544	1,703	4,309	4,583
May	18,848	3,037	388	3,187	980	649	280	1,342	25,486	54,197	1,879	4,916	5,304
June	16,303	3,062	412	3,414	934	614	247	1,251	23,237	49,473	1,928	4,990	5,401
July	17,618	3,473	471	3,658	943	635	262	1,311	21,455	49,828	2,000	5,474	5,945
August	13,589	3,602	368	3,722	942	634	285	1,324	19,570	44,035	1,942	5,543	5,911
Sept	16,404	3,272	363	3,407	895	589	272	1,327	16,368	42,897	1,735	5,007	5,370
October	20,335	2,942	249	3,176	839	589	265	1,353	17,339	47,088	1,552	4,495	4,743
November	19,406	2,583	184	3,391	993	602	296	1,364	18,808	47,627	1,257	3,840	4,024
December	23,146	2,333	91	3,615	1,011	640	293	1,454	22,528	55,111	1,167	3,500	3,591
Year 2017													
January	20,749	2,062	90	3,589	972	619	272	1,399	27,853	57,605	1,244	3,306	3,396
February	22,228	2,361	136	3,405	866	529	252	1,241	24,542	55,559	1,383	3,744	3,880
March	26,133	4,136	297	3,662	927	558	275	1,380	30,221	67,588	1,987	6,123	6,419
April	25,753	4,464	310	3,373	881	546	244	1,357	29,320	66,248	2,211	6,674	6,985
May	22,642	5,364	402	3,438	907	604	232	1,295	32,177	67,061	2,440	7,805	8,207
June	19,711	5,788	465	3,625	883	589	224	1,265	30,424	62,972	2,503	8,290	8,755
July	15,765	5,193	311	3,922	916	604	240	1,368	25,745	54,064	2,578	7,771	8,083
August	13,089	5,060	341	3,880	925	617	233	1,357	21,241	46,743	2,501	7,562	7,903
Sept	17,268	4,818	349	3,404	878	558	214	1,325	18,965	47,779	2,240	7,059	7,408
October	24,821	4,516	314	3,569	885	559	248	1,261	17,211	53,385	2,002	6,518	6,832
November	23,320	2,989	131	3,560	904	572	245	1,334	19,840	52,896	1,574	4,563	4,694
December	22,776	2,937	123	3,859	932	608	255	1,393	22,507	55,388	1,476	4,413	4,536
Year 2018													
January	26,834	3,134	128	3,847	925	590	252	1,373	25,422	62,505	1,655	4,789	4,917
February	23,936	3,846	191	3,461	883	561	241	1,303	25,593	60,015	1,774	5,621	5,812
March	27,275	4,842	258	3,630	941	599	267	1,385	25,887	65,083	2,414	7,256	7,513
Year to Date													
2016	60,544	5,760	584	10,409	2,750	1,720	842	3,891	77,143	163,644	3,649	9,410	9,994
2017	69,110	8,559	522	10,656	2,765	1,706	799	4,021	82,616	180,753	4,613	13,173	13,695
2018	78,044	11,822	577	10,937	2,749	1,750	760	4,061	76,902	187,602	5,843	17,665	18,242
Rolling 12 Months Ending in March													
2017	235,558	35,469	3,322	41,194	11,233	7,251	3,288	15,956	273,284	626,554	19,777	55,246	58,567
2018	263,189	52,951	3,324	43,565	10,860	7,007	2,894	16,016	294,331	694,139	25,369	78,321	81,644

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018
(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												
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	922,399	9,069	8,881	654,780	154	424,400	247,787	1,995	40,666	-5,629	421	2,304,923
2017	895,095	8,805	6,711	617,725	164	424,485	276,804	3,512	42,618	-5,448	473	2,270,945
Year 2016												
January	84,012	965	832	52,818	3	37,974	23,579	95	3,303	-230	34	203,384
February	69,852	830	734	48,009	4	34,281	22,015	135	3,624	-332	30	179,182
March	56,982	623	724	49,949	5	34,445	25,125	151	3,696	-291	42	171,452
April	53,542	602	858	46,425	7	34,036	23,742	169	3,887	-367	34	162,936
May	62,093	695	763	52,908	10	36,531	23,508	187	3,098	-257	33	179,569
June	86,611	710	793	63,858	16	37,000	21,716	188	3,034	-409	40	213,557
July	100,856	926	833	71,913	21	37,919	20,030	197	2,837	-678	34	234,890
August	100,156	905	856	72,293	13	37,927	18,241	207	2,432	-787	33	232,277
Sept	83,223	644	807	58,392	23	33,919	15,283	190	3,215	-626	35	195,105
October	72,950	658	418	47,710	7	30,016	16,149	182	3,479	-471	36	171,134
November	64,830	700	596	44,171	22	33,082	17,599	154	3,635	-522	35	164,301
December	87,293	811	667	46,333	22	37,268	20,799	139	4,425	-657	36	197,136
Year 2017												
January	86,110	838	743	44,020	14	38,425	25,700	148	3,310	-346	37	198,999
February	64,900	658	540	39,303	19	33,911	22,668	172	3,771	-418	31	165,556
March	66,119	779	535	45,959	17	34,693	28,009	281	4,428	-455	35	180,401
April	59,111	665	260	41,953	19	30,217	27,067	303	4,186	-368	38	163,451
May	69,189	730	654	47,955	6	31,728	29,772	368	3,690	-350	35	183,780
June	81,393	719	698	56,424	12	35,022	28,303	382	3,400	-474	38	205,918
July	96,931	671	673	70,858	21	37,874	23,736	358	2,627	-646	43	233,146
August	90,678	722	540	68,465	NM	38,667	19,464	352	2,252	-531	46	220,659
Sept	71,951	705	523	56,671	NM	35,496	17,450	338	2,848	-522	42	185,504
October	66,669	752	405	51,469	10	35,038	15,750	320	4,224	-388	41	174,289
November	65,099	654	583	44,546	17	34,541	18,048	241	3,978	-394	42	167,355
December	76,945	911	556	50,102	25	38,871	20,836	251	3,904	-557	43	191,887
Year 2018												
January	88,381	2,364	770	54,200	26	39,366	23,621	257	4,401	-475	37	212,947
February	61,125	624	575	46,364	18	33,941	23,653	354	3,803	-226	35	170,268
March	58,622	598	491	49,147	17	35,262	23,870	473	4,209	-408	44	172,325
Year to Date												
2016	210,846	2,418	2,289	150,776	13	106,700	70,720	381	10,623	-854	106	554,018
2017	217,129	2,276	1,818	129,283	50	107,029	76,377	600	11,509	-1,218	103	544,956
2018	208,128	3,585	1,836	149,712	62	108,569	71,144	1,085	12,413	-1,109	116	555,540
Rolling 12 Months Ending in March												
2017	928,683	8,926	8,409	633,287	192	424,728	253,445	2,214	41,551	-5,994	419	2,295,861
2018	886,094	10,115	6,729	638,154	NM	426,025	271,570	3,997	43,523	-5,339	486	2,281,529

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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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, 2008-March 2018
(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												
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,941	1,613,156
2017	304,398	3,235	1,013	558,439	4,013	380,465	21,585	48,814	259,889	-1,047	6,509	1,587,313
Year 2016												
January	28,612	379	42	48,969	341	34,551	1,884	1,363	19,168	-82	589	135,816
February	22,057	416	99	42,840	295	31,357	1,991	2,065	20,345	-66	540	121,939
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	549	119,810
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	554	117,612
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	610	124,310
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	595	140,888
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	610	162,745
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	617	163,051
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	557	143,155
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	549	128,939
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	560	119,981
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	613	134,908
Year 2017												
January	28,593	264	116	38,893	337	34,695	2,008	1,981	21,600	-90	580	128,978
February	21,279	203	92	34,219	317	29,650	1,741	2,297	22,205	-90	513	112,426
March	22,607	155	92	40,738	355	30,400	2,059	4,101	25,836	-66	517	126,794
April	21,810	179	95	36,522	281	26,526	2,103	4,418	25,402	-71	506	117,771
May	23,035	229	41	40,987	340	29,585	2,243	5,330	22,880	-73	544	125,140
June	25,605	246	100	51,504	331	31,988	1,972	5,792	20,276	-93	549	138,270
July	30,301	227	47	65,181	356	33,440	1,867	5,077	17,361	-114	571	154,316
August	28,374	232	113	62,813	366	33,717	1,652	4,982	15,031	-107	580	147,754
Sept	25,775	243	97	52,413	332	32,602	1,402	4,764	18,304	-84	508	136,355
October	22,715	203	84	47,683	306	30,957	1,346	4,451	24,554	-75	518	132,743
November	25,391	222	35	40,082	348	32,077	1,657	2,845	23,363	-84	537	126,473
December	28,912	832	100	47,404	343	34,828	1,534	2,776	23,076	-99	586	140,293
Year 2018												
January	29,517	2,753	92	46,793	304	35,283	1,665	2,972	26,648	-72	582	146,536
February	20,233	119	95	42,294	313	30,849	1,804	3,639	24,057	-89	550	123,864
March	21,362	174	41	46,971	337	31,770	1,870	4,574	27,192	-82	569	134,779
Year to Date												
2016	65,033	1,004	280	137,708	991	97,611	5,976	5,848	61,678	-241	1,677	377,566
2017	72,479	622	300	113,850	1,009	94,745	5,808	8,379	69,641	-246	1,610	368,197
2018	71,112	3,046	229	136,058	953	97,902	5,339	11,185	77,896	-243	1,701	405,178
Rolling 12 Months Ending in March												
2017	314,710	2,978	1,421	600,742	3,777	378,428	18,371	36,033	241,517	-1,062	6,875	1,603,787
2018	303,030	5,659	942	580,647	3,956	383,622	21,116	51,621	268,144	-1,044	6,600	1,624,293

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018
(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															
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
2017	335	106	8	7,512	0	0	243	578	2,642	0	1,095	12,518	7,700	8,277	8,277
Year 2016															
January	43	8	1	605	0	0	21	26	230	0	89	1,022	346	373	373
February	45	8	1	570	0	0	18	39	210	0	75	967	398	437	437
March	46	3	1	579	0	0	22	44	225	0	90	1,011	520	564	564
April	24	6	0	551	0	0	15	46	221	0	97	961	566	612	612
May	20	6	0	607	0	0	12	48	230	0	96	1,019	616	663	663
June	23	5	0	692	0	0	13	53	220	0	83	1,089	623	676	676
July	24	8	1	831	0	0	15	55	234	0	96	1,263	640	696	696
August	26	7	0	859	0	0	19	58	234	0	95	1,298	620	677	677
Sept	29	4	0	700	0	0	23	48	223	0	87	1,114	556	605	605
October	27	5	0	617	0	0	21	42	218	0	90	1,021	493	536	536
November	35	8	0	521	0	0	17	36	224	0	85	927	393	428	428
December	42	8	1	598	0	0	21	33	228	0	85	1,015	387	420	420
Year 2017															
January	41	14	1	648	0	0	23	22	224	0	85	1,057	414	436	436
February	32	8	1	566	0	0	NM	26	203	0	78	934	454	480	480
March	32	10	1	638	0	0	NM	48	224	0	87	1,066	630	679	679
April	19	6	0	532	0	0	NM	50	214	0	87	934	700	750	750
May	19	7	0	583	0	0	NM	65	233	0	101	1,036	774	838	838
June	23	6	0	645	0	0	NM	71	215	0	90	1,075	781	852	852
July	29	8	0	703	0	0	NM	63	226	0	100	1,150	818	881	881
August	27	9	1	698	0	0	NM	60	225	0	101	1,137	798	858	858
Sept	27	8	1	651	0	0	14	58	208	0	90	1,058	713	772	772
October	24	7	1	627	0	0	NM	53	219	0	95	1,039	633	686	686
November	27	8	1	595	0	0	NM	31	221	0	88	986	501	532	532
December	36	NM	1	626	0	0	NM	29	229	0	92	1,046	485	514	514
Year 2018															
January	42	NM	1	640	0	0	NM	29	221	0	85	1,078	540	569	569
February	30	8	1	588	0	0	NM	39	198	0	73	959	594	632	632
March	25	8	1	610	0	0	NM	46	223	0	85	1,021	779	825	825
Year to Date															
2016	134	19	3	1,754	0	0	61	110	665	0	254	3,000	1,264	1,374	1,374
2017	105	31	3	1,851	0	0	69	97	651	0	250	3,057	1,498	1,594	1,594
2018	97	NM	3	1,837	0	0	69	114	641	0	243	3,057	1,912	2,026	2,026
Rolling 12 Months Ending in March															
2017	355	89	5	7,827	0	0	NM	516	2,682	0	1,064	12,763	6,391	6,907	6,907
2018	327	NM	9	7,498	0	0	NM	595	2,632	0	1,087	12,519	8,114	8,709	8,709

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018
(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															
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
2017	8,074	437	776	89,188	9,982	0	1,413	54	29,138	0	4,968	144,028	2,518	2,572	2,572
Year 2016															
January	793	45	91	7,653	851	0	130	1	2,492	0	442	12,497	113	115	115
February	750	45	76	7,133	763	0	115	2	2,317	0	396	11,597	124	126	126
March	781	39	63	7,462	837	0	142	2	2,381	0	409	12,117	171	173	173
April	670	37	50	7,067	815	0	128	2	2,192	0	424	11,386	186	189	189
May	740	51	87	7,341	740	0	119	3	2,350	0	456	11,886	206	208	208
June	814	44	81	7,661	692	0	99	3	2,391	0	463	12,248	206	209	209
July	873	48	79	8,165	731	0	104	3	2,501	0	486	12,989	214	217	217
August	847	37	81	8,291	732	0	92	3	2,489	0	503	13,075	209	212	212
Sept	762	41	60	7,706	674	0	65	2	2,312	0	489	12,111	190	192	192
October	693	41	75	7,527	679	0	88	2	2,312	0	433	11,851	174	176	176
November	630	37	87	7,514	662	0	69	2	2,433	0	418	11,852	139	140	140
December	750	40	78	7,678	720	0	117	1	2,493	0	405	12,283	128	129	129
Year 2017															
January	757	41	57	7,885	769	0	123	NM	2,467	0	383	12,484	133	NM	NM
February	662	35	55	6,952	855	0	112	NM	2,342	0	367	11,381	147	NM	NM
March	669	35	79	7,372	885	0	127	NM	2,446	0	413	12,030	209	NM	NM
April	593	34	48	7,171	857	0	124	NM	2,353	0	413	11,596	227	NM	NM
May	637	35	76	7,252	835	0	135	4	2,315	0	400	11,689	252	256	256
June	706	35	75	7,489	867	0	124	8	2,404	0	419	12,127	254	262	262
July	699	34	87	7,977	884	0	121	7	2,600	0	490	12,897	264	272	272
August	700	34	72	7,634	951	0	109	7	2,593	0	489	12,590	258	265	265
Sept	652	32	56	6,993	787	0	98	6	2,287	0	390	11,301	235	241	241
October	680	37	45	7,087	698	0	102	6	2,346	0	372	11,373	214	220	220
November	634	38	74	7,362	834	0	120	4	2,373	0	408	11,846	170	174	174
December	685	47	51	8,013	759	0	119	NM	2,613	0	423	12,714	155	NM	NM
Year 2018															
January	756	67	52	7,968	730	0	113	NM	2,552	0	411	12,652	164	NM	NM
February	662	40	46	7,071	762	0	114	5	2,327	0	340	11,368	172	178	178
March	681	40	60	7,156	839	0	124	6	2,472	0	413	11,792	241	247	247
Year to Date															
2016	2,324	128	230	22,247	2,450	0	387	6	7,190	0	1,247	36,210	409	414	414
2017	2,087	111	191	22,210	2,509	0	362	6	7,255	0	1,163	35,895	489	495	495
2018	2,099	147	159	22,195	2,331	0	351	15	7,351	0	1,164	35,812	578	593	593
Rolling 12 Months Ending in March															
2017	8,866	486	870	91,161	8,953	0	1,244	NM	28,728	0	5,239	145,575	2,140	NM	NM
2018	8,085	473	743	89,172	9,805	0	1,402	NM	29,233	0	4,969	143,945	2,606	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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-March 2018 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,922
Year 2016	
January	520
February	622
March	835
April	951
May	1,058
June	1,099
July	1,146
August	1,113
Sept	989
October	884
November	726
December	653
Year 2017	
January	697
February	783
March	1,147
April	1,284
May	1,415
June	1,468
July	1,495
August	1,446
Sept	1,292
October	1,156
November	903
December	837
Year 2018	
January	951
February	1,008
March	1,395
Year to Date	
2016	1,976
2017	2,627
2018	3,354
Rolling 12 Months Ending in March	
2017	11,245
2018	14,648

See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	8,307	9,016	-7.9%	216	197	7,743	8,448	107	111	241	260
Connecticut	3,204	2,917	9.8%	8	7	3,118	2,833	32	32	45	44
Maine	1,042	1,023	1.9%	0	0	860	816	15	18	167	189
Massachusetts	2,120	3,070	-31.0%	26	NM	2,020	2,961	48	48	26	24
New Hampshire	1,312	1,460	-10.2%	92	67	1,210	1,383	7	7	3	3
Rhode Island	429	360	19.2%	0	1	424	354	5	5	0	0
Vermont	200	186	7.5%	90	84	110	102	0	0	0	0
Middle Atlantic	34,385	34,076	0.9%	2,892	2,960	30,908	30,498	188	199	397	420
New Jersey	6,651	7,012	-5.1%	5	15	6,527	6,867	59	63	60	67
New York	10,362	10,600	-2.2%	2,875	2,930	7,309	7,478	95	97	83	95
Pennsylvania	17,372	16,465	5.5%	12	15	17,072	16,152	34	39	254	258
East North Central	49,184	47,385	3.8%	18,691	20,072	29,331	26,153	142	148	1,020	1,013
Illinois	15,392	14,914	3.2%	330	554	14,771	14,074	32	33	260	252
Indiana	9,016	8,105	11.2%	6,493	6,760	2,074	896	19	17	430	432
Michigan	9,171	9,467	-3.1%	5,784	6,656	3,189	2,623	71	66	127	122
Ohio	10,200	10,150	0.5%	1,937	2,396	8,193	7,666	12	21	58	67
Wisconsin	5,405	4,748	13.8%	4,147	3,705	1,104	893	9	11	145	139
West North Central	28,426	27,942	1.7%	22,053	21,872	5,943	5,690	51	50	380	331
Iowa	4,728	4,277	10.5%	3,318	2,884	1,214	1,241	22	19	174	133
Kansas	4,230	4,196	0.8%	2,462	2,498	1,763	1,691	NM	NM	NM	6
Minnesota	5,388	4,967	8.5%	4,036	3,718	1,178	1,082	15	15	159	153
Missouri	6,358	6,860	-7.3%	5,854	6,527	489	315	12	13	4	5
Nebraska	3,048	2,934	3.9%	2,524	2,393	498	520	1	2	24	20
North Dakota	3,668	3,598	1.9%	3,053	2,980	599	605	0	0	16	14
South Dakota	1,008	1,110	-9.2%	805	873	202	237	NM	NM	0	0
South Atlantic	61,162	62,329	-1.9%	49,598	52,084	9,865	8,469	104	110	1,596	1,666
Delaware	575	720	-20.1%	NM	NM	492	581	1	1	82	138
District of Columbia	9	9	-0.6%	0	0	6	5	3	4	0	0
Florida	17,069	17,979	-5.1%	15,868	16,493	744	1,025	6	7	451	454
Georgia	9,507	9,584	-0.8%	8,147	7,939	904	1,203	NM	NM	455	441
Maryland	3,543	2,596	36.5%	175	NM	3,299	2,527	48	42	21	26
North Carolina	10,588	10,559	0.3%	9,263	9,371	1,135	1,007	13	19	178	162
South Carolina	7,601	7,268	4.6%	7,064	6,826	377	281	0	0	159	161
Virginia	7,556	7,964	-5.1%	5,861	6,800	1,480	936	32	36	183	192
West Virginia	4,713	5,650	-16.6%	3,219	4,654	1,427	904	0	0	67	92
East South Central	26,925	28,273	-4.8%	22,736	23,922	3,459	3,588	17	NM	714	746
Alabama	10,311	10,796	-4.5%	7,262	7,587	2,698	2,851	0	0	351	358
Kentucky	5,229	5,745	-9.0%	5,113	5,636	69	59	0	0	47	51
Mississippi	5,036	5,624	-10.5%	4,237	4,807	665	657	0	0	134	160
Tennessee	6,349	6,108	4.0%	6,124	5,892	27	21	17	NM	181	178
West South Central	51,612	50,933	1.3%	15,006	15,273	30,784	29,535	55	80	5,766	6,046
Arkansas	4,567	4,114	11.0%	2,825	2,948	1,593	1,031	1	1	149	134
Louisiana	6,912	7,456	-7.3%	4,029	4,099	737	977	12	16	2,134	2,365
Oklahoma	6,257	5,909	5.9%	2,494	2,718	3,686	3,115	0	0	77	76
Texas	33,876	33,454	1.3%	5,659	5,508	24,768	24,412	43	64	3,407	3,471
Mountain	28,013	26,956	3.9%	21,265	21,069	6,410	5,583	49	48	288	256
Arizona	7,957	7,151	11.3%	7,442	6,550	501	588	14	13	0	0
Colorado	4,413	4,366	1.1%	3,152	3,203	1,252	1,154	NM	NM	7	7
Idaho	1,367	1,542	-11.3%	849	1,018	460	471	4	4	54	49
Montana	2,691	2,357	14.2%	1,061	1,169	1,629	1,185	0	0	2	3
Nevada	2,805	2,677	4.8%	1,857	1,789	905	858	10	11	33	18
New Mexico	2,327	2,977	-21.8%	1,275	2,294	1,039	674	9	9	3	0
Utah	2,580	2,213	16.6%	2,195	1,806	325	342	9	7	51	58
Wyoming	3,872	3,674	5.4%	3,434	3,241	300	312	0	0	138	121
Pacific Contiguous	30,556	32,018	-4.6%	18,985	22,011	9,975	8,506	241	244	1,354	1,256
California	14,404	15,919	-9.5%	5,291	7,562	7,717	7,037	230	236	1,165	1,084
Oregon	5,874	5,183	13.3%	4,417	4,303	1,397	824	6	5	54	51
Washington	10,278	10,916	-5.8%	9,278	10,145	861	645	4	4	135	122
Pacific Noncontiguous	1,346	1,362	-1.2%	882	941	361	325	67	60	36	36
Alaska	561	519	8.2%	494	455	24	19	32	NM	11	12
Hawaii	784	843	-6.9%	388	486	336	306	35	27	25	24
U.S. Total	319,916	320,291	-0.1%	172,325	180,401	134,779	126,794	1,021	1,066	11,792	12,030

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	25,702	25,543	0.6%	1,025	604	23,648	23,900	311	313	718	725
Connecticut	9,447	8,876	6.4%	23	20	9,209	8,637	91	94	124	125
Maine	3,001	2,797	7.3%	0	0	2,437	2,225	49	47	514	525
Massachusetts	7,144	8,205	-12.9%	137	82	6,799	7,919	136	137	72	68
New Hampshire	4,303	4,181	2.9%	600	262	3,675	3,891	20	21	8	8
Rhode Island	1,227	960	27.8%	0	2	1,214	945	13	13	0	0
Vermont	580	523	11.0%	265	238	315	284	1	1	0	0
Middle Atlantic	102,982	97,761	5.3%	8,759	8,295	92,558	87,757	544	532	1,122	1,177
New Jersey	18,457	18,442	0.1%	19	18	18,091	18,072	164	159	183	193
New York	31,609	30,151	4.8%	8,706	8,245	22,398	21,390	274	277	232	238
Pennsylvania	52,916	49,168	7.6%	33	32	52,069	48,295	107	96	707	745
East North Central	154,100	142,726	8.0%	62,158	60,301	88,630	79,115	457	447	2,855	2,862
Illinois	47,189	44,657	5.7%	1,182	1,428	45,162	42,407	103	91	741	731
Indiana	27,904	25,333	10.2%	21,583	21,436	5,119	2,657	62	58	1,140	1,182
Michigan	29,727	27,481	8.2%	20,166	19,765	8,979	7,181	214	198	368	337
Ohio	32,205	29,837	7.9%	5,782	5,587	26,203	23,999	51	66	169	184
Wisconsin	17,075	15,418	10.7%	13,445	12,085	3,166	2,871	27	34	437	428
West North Central	90,151	84,776	6.3%	71,624	68,471	17,219	15,114	160	151	1,149	1,039
Iowa	15,516	13,384	15.9%	11,294	9,516	3,646	3,374	63	51	513	443
Kansas	13,171	12,436	5.9%	8,310	8,002	4,828	4,419	NM	NM	29	11
Minnesota	16,532	15,203	8.7%	12,591	11,794	3,441	2,914	51	50	449	445
Missouri	21,326	21,040	1.4%	19,996	20,256	1,277	728	38	41	14	14
Nebraska	9,390	9,274	1.3%	7,761	7,714	1,527	1,468	4	5	97	86
North Dakota	11,185	10,621	5.3%	9,254	9,009	1,884	1,571	0	0	46	40
South Dakota	3,032	2,818	7.6%	2,417	2,179	615	639	NM	NM	0	0
South Atlantic	193,773	182,915	5.9%	159,480	153,936	29,235	23,862	308	306	4,749	4,811
Delaware	1,554	1,677	-7.4%	7	NM	1,329	1,303	2	2	215	371
District of Columbia	23	24	-3.0%	0	0	15	14	8	10	0	0
Florida	53,146	51,264	3.7%	49,130	47,217	2,689	2,740	19	21	1,307	1,286
Georgia	30,315	28,561	6.1%	25,858	24,061	3,115	3,226	3	NM	1,339	1,272
Maryland	10,230	7,315	39.8%	571	NM	9,448	7,113	138	122	72	77
North Carolina	32,968	30,473	8.2%	29,312	27,426	3,094	2,542	48	46	514	459
South Carolina	23,796	22,435	6.1%	22,412	21,387	885	545	1	1	499	502
Virginia	24,603	23,052	6.7%	19,468	19,507	4,472	2,863	89	103	573	578
West Virginia	17,138	18,114	-5.4%	12,721	14,333	4,187	3,516	0	0	230	266
East South Central	88,127	82,658	6.6%	75,682	71,620	10,206	8,786	54	50	2,185	2,202
Alabama	33,285	31,656	5.1%	24,212	23,674	8,007	6,920	0	0	1,066	1,062
Kentucky	18,154	18,003	0.8%	17,811	17,770	193	83	0	0	149	151
Mississippi	15,940	13,644	16.8%	13,563	11,439	1,935	1,733	5	3	437	469
Tennessee	20,748	19,355	7.2%	20,095	18,737	71	50	49	47	533	522
West South Central	165,178	152,953	8.0%	51,043	48,523	95,741	85,753	178	213	18,216	18,463
Arkansas	15,868	14,118	12.4%	10,680	11,109	4,733	2,577	2	2	453	431
Louisiana	22,734	22,453	1.3%	13,160	12,444	2,276	2,568	37	45	7,261	7,395
Oklahoma	19,674	17,565	12.0%	8,457	8,901	10,990	8,448	0	0	228	216
Texas	106,902	98,817	8.2%	18,745	16,070	77,742	72,161	139	166	10,275	10,421
Mountain	84,080	84,272	-0.2%	64,599	66,890	18,525	16,491	138	130	818	762
Arizona	23,462	21,799	7.6%	21,734	20,158	1,688	1,605	39	36	0	0
Colorado	13,457	13,518	-0.5%	9,972	10,257	3,461	3,236	5	6	20	20
Idaho	4,305	4,151	3.7%	2,742	2,771	1,393	1,218	13	13	156	148
Montana	8,131	7,554	7.6%	3,314	3,191	4,809	4,353	0	0	8	10
Nevada	8,234	8,217	0.2%	5,543	5,816	2,584	2,323	28	26	80	51
New Mexico	6,174	8,627	-28.4%	3,290	6,555	2,852	2,045	28	27	3	1
Utah	8,405	8,515	-1.3%	7,382	7,455	848	875	24	22	151	162
Wyoming	11,913	11,893	0.2%	10,623	10,686	890	835	0	0	400	371
Pacific Contiguous	91,526	94,619	-3.3%	58,455	63,630	28,451	26,513	719	728	3,901	3,747
California	41,606	47,895	-13.1%	16,040	23,129	21,537	20,847	688	700	3,340	3,219
Oregon	17,341	16,014	8.3%	13,243	12,783	3,916	3,061	20	17	163	153
Washington	32,580	30,710	6.1%	29,172	27,718	2,998	2,605	11	11	398	375
Pacific Noncontiguous	3,969	3,884	2.2%	2,718	2,686	965	906	189	186	96	105
Alaska	1,646	1,516	8.6%	1,450	1,329	67	59	102	95	27	33
Hawaii	2,322	2,367	-1.9%	1,268	1,357	898	847	87	91	69	72
U.S. Total	999,588	952,106	5.0%	555,540	544,956	405,178	368,197	3,057	3,057	35,812	35,895

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	41	510	-91.9%	38	11	2	496	0	0	NM	NM
Connecticut	-3	41	-106.7%	0	0	-3	41	0	0	0	0
Maine	6	9	-29.2%	0	0	5	7	0	0	NM	NM
Massachusetts	0	449	-100.0%	0	0	0	449	0	0	0	0
New Hampshire	38	11	234.9%	38	11	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,708	4,495	-17.5%	0	0	3,681	4,441	0	0	27	55
New Jersey	88	120	-26.9%	0	0	88	120	0	0	0	0
New York	124	84	47.1%	0	0	120	53	0	0	3	31
Pennsylvania	3,497	4,291	-18.5%	0	0	3,473	4,268	0	0	24	23
East North Central	22,213	22,678	-2.0%	12,779	13,152	9,216	9,321	4	NM	214	199
Illinois	5,091	4,639	9.8%	282	405	4,645	4,079	NM	NM	162	151
Indiana	6,209	5,445	14.0%	5,856	5,306	351	137	2	2	0	0
Michigan	2,942	3,406	-13.6%	2,896	3,360	36	40	0	0	10	NM
Ohio	5,497	6,704	-18.0%	1,312	1,637	4,184	5,066	0	0	NM	NM
Wisconsin	2,474	2,483	-0.4%	2,432	2,443	0	0	0	0	41	40
West North Central	13,355	13,406	-0.4%	13,123	13,198	0	0	9	11	223	198
Iowa	1,529	1,299	17.8%	1,387	1,180	0	0	9	8	134	111
Kansas	1,166	1,218	-4.3%	1,166	1,218	0	0	0	0	0	0
Minnesota	1,720	1,632	5.4%	1,665	1,572	0	0	0	0	55	60
Missouri	4,462	5,293	-15.7%	4,461	5,290	0	0	1	3	0	0
Nebraska	1,874	1,569	19.4%	1,850	1,550	0	0	0	0	24	20
North Dakota	2,364	2,215	6.7%	2,354	2,208	0	0	0	0	NM	NM
South Dakota	239	181	32.0%	239	181	0	0	0	0	0	0
South Atlantic	13,270	16,096	-17.6%	10,665	14,920	2,538	1,105	1	7	65	64
Delaware	-3	28	-111.4%	0	0	-3	28	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,515	3,121	-51.5%	1,507	3,113	0	0	0	0	NM	NM
Georgia	1,706	2,350	-27.4%	1,688	2,339	0	0	0	0	NM	NM
Maryland	1,280	353	263.1%	0	0	1,274	345	0	0	6	7
North Carolina	2,414	2,858	-15.6%	2,392	2,828	7	8	0	5	15	17
South Carolina	1,219	1,259	-3.2%	1,218	1,258	0	0	0	0	1	2
Virginia	818	900	-9.1%	738	830	61	51	1	2	18	17
West Virginia	4,322	5,225	-17.3%	3,123	4,553	1,199	673	0	0	0	0
East South Central	7,265	8,718	-16.7%	7,038	8,367	165	290	0	0	62	62
Alabama	2,316	2,471	-6.3%	2,311	2,467	0	0	0	0	NM	NM
Kentucky	3,613	4,446	-18.7%	3,613	4,446	0	0	0	0	0	0
Mississippi	176	367	-52.2%	11	78	165	290	0	0	0	0
Tennessee	1,160	1,433	-19.1%	1,103	1,376	0	0	0	0	57	57
West South Central	9,067	11,459	-20.9%	4,963	5,709	4,079	5,719	0	0	25	31
Arkansas	1,365	1,242	9.9%	914	1,221	447	17	0	0	4	4
Louisiana	507	616	-17.7%	181	169	326	446	0	0	0	0
Oklahoma	934	1,295	-27.8%	837	1,185	77	83	0	0	21	27
Texas	6,260	8,307	-24.6%	3,031	3,134	3,229	5,173	0	0	0	0
Mountain	11,576	11,866	-2.4%	9,991	10,741	1,546	1,093	0	0	39	32
Arizona	2,327	2,112	10.2%	2,327	2,112	0	0	0	0	0	0
Colorado	1,975	2,399	-17.7%	1,973	2,398	0	0	0	0	1	1
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	1,371	919	49.2%	26	27	1,345	892	0	0	0	0
Nevada	95	131	-28.0%	-3	25	98	106	0	0	0	0
New Mexico	839	1,841	-54.4%	839	1,841	0	0	0	0	0	0
Utah	1,732	1,464	18.3%	1,694	1,433	38	32	0	0	0	0
Wyoming	3,235	2,997	7.9%	3,135	2,906	64	63	0	0	36	28
Pacific Contiguous	25	28	-8.0%	0	0	0	0	0	0	25	28
California	23	27	-13.2%	0	0	0	0	0	0	23	27
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	0	308.6%	0	0	0	0	0	0	2	0
Pacific Noncontiguous	170	171	-0.6%	NM	NM	135	141	10	NM	0	0
Alaska	54	NM	NM	NM	NM	19	13	10	NM	0	0
Hawaii	117	128	-9.2%	0	0	117	128	0	0	0	0
U.S. Total	80,691	89,427	-9.8%	58,622	66,119	21,362	22,607	25	32	681	669

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	572	1,240	-53.9%	361	101	205	1,133	0	0	NM	NM
Connecticut	185	78	136.2%	0	0	185	78	0	0	0	0
Maine	26	28	-7.7%	0	0	20	23	0	0	NM	NM
Massachusetts	0	1,033	-100.0%	0	0	0	1,033	0	0	0	0
New Hampshire	361	101	257.6%	361	101	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	12,873	12,615	2.0%	0	0	12,790	12,453	0	0	83	163
New Jersey	375	340	10.3%	0	0	375	340	0	0	0	0
New York	384	273	40.9%	0	0	373	189	0	0	11	83
Pennsylvania	12,114	12,003	0.9%	0	0	12,042	11,924	0	0	72	79
East North Central	71,093	70,366	1.0%	41,884	41,434	28,558	28,328	20	15	631	589
Illinois	15,802	14,497	9.0%	1,019	1,164	14,303	12,873	12	11	467	449
Indiana	19,534	18,283	6.8%	18,552	17,602	974	676	8	4	0	0
Michigan	10,371	10,204	1.6%	10,237	10,075	109	116	0	0	25	NM
Ohio	16,909	18,495	-8.6%	3,733	3,828	13,172	14,663	0	0	NM	NM
Wisconsin	8,478	8,887	-4.6%	8,343	8,764	0	0	0	0	135	124
West North Central	46,067	45,590	1.0%	45,333	44,889	0	1	26	40	708	661
Iowa	6,081	5,371	13.2%	5,662	4,983	0	0	21	25	398	363
Kansas	4,615	4,633	-0.4%	4,615	4,633	0	0	0	0	0	0
Minnesota	6,017	5,960	1.0%	5,833	5,771	0	0	0	1	184	187
Missouri	15,836	16,740	-5.4%	15,831	16,726	0	1	5	14	0	0
Nebraska	5,627	5,424	3.7%	5,529	5,338	0	0	0	0	97	86
North Dakota	7,151	6,920	3.3%	7,123	6,895	0	0	0	0	28	24
South Dakota	739	542	36.3%	739	542	0	0	0	0	0	0
South Atlantic	48,746	48,577	0.3%	41,345	43,614	7,174	4,736	19	21	208	205
Delaware	82	57	45.1%	0	0	82	57	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,611	9,153	-27.8%	6,583	9,121	0	0	0	0	29	31
Georgia	6,973	6,333	10.1%	6,923	6,296	0	0	0	0	50	37
Maryland	3,432	1,605	113.8%	0	0	3,410	1,583	0	0	22	22
North Carolina	8,637	7,331	17.8%	8,557	7,234	22	30	15	16	43	50
South Carolina	4,379	4,163	5.2%	4,370	4,155	0	0	0	0	9	7
Virginia	2,714	2,929	-7.3%	2,480	2,746	174	121	4	5	55	57
West Virginia	15,918	17,006	-6.4%	12,432	14,061	3,485	2,945	0	0	0	0
East South Central	28,399	29,182	-2.7%	27,570	28,348	637	644	0	0	192	190
Alabama	8,419	7,523	11.9%	8,407	7,511	0	0	0	0	NM	NM
Kentucky	13,154	14,903	-11.7%	13,154	14,903	0	0	0	0	0	0
Mississippi	990	1,153	-14.1%	353	509	637	644	0	0	0	0
Tennessee	5,835	5,604	4.1%	5,656	5,426	0	0	0	0	180	178
West South Central	36,375	41,900	-13.2%	20,165	21,839	16,131	19,968	0	0	79	93
Arkansas	6,054	6,183	-2.1%	4,707	5,598	1,333	571	0	0	14	13
Louisiana	2,595	3,018	-14.0%	1,523	1,706	1,072	1,312	0	0	0	0
Oklahoma	3,934	4,480	-12.2%	3,524	4,103	345	297	0	0	65	79
Texas	23,791	28,219	-15.7%	10,411	10,431	13,380	17,788	0	0	0	0
Mountain	36,012	40,457	-11.0%	31,394	36,283	4,506	4,077	0	0	112	97
Arizona	7,465	7,436	0.4%	7,465	7,436	0	0	0	0	0	0
Colorado	6,243	7,619	-18.1%	6,240	7,615	0	0	0	0	4	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	4,035	3,629	11.2%	66	78	3,967	3,549	0	0	2	2
Nevada	244	483	-49.5%	-10	243	254	240	0	0	0	0
New Mexico	2,167	5,232	-58.6%	2,167	5,232	0	0	0	0	0	0
Utah	5,879	5,990	-1.8%	5,768	5,885	111	105	0	0	0	0
Wyoming	9,970	10,062	-0.9%	9,698	9,794	174	183	0	0	99	85
Pacific Contiguous	798	1,448	-44.9%	0	554	718	810	0	0	81	85
California	75	78	-4.6%	0	0	0	0	0	0	75	78
Oregon	0	554	-100.0%	0	554	0	0	0	0	0	0
Washington	724	816	-11.3%	0	0	718	810	0	0	6	6
Pacific Noncontiguous	500	426	17.5%	NM	NM	393	330	32	29	0	0
Alaska	157	138	13.2%	NM	NM	50	43	32	29	0	0
Hawaii	343	287	19.5%	0	0	343	287	0	0	0	0
U.S. Total	281,437	291,801	-3.6%	208,128	217,129	71,112	72,479	97	105	2,099	2,087

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	17	16	3.8%	2	3	10	8	5	5	NM	NM
Connecticut	1	2	-56.9%	0	1	1	1	NM	1	0	0
Maine	1	1	-29.1%	0	0	0	0	0	0	NM	NM
Massachusetts	12	8	47.7%	NM	NM	9	6	3	1	0	0
New Hampshire	3	3	6.1%	1	1	NM	NM	2	2	0	0
Rhode Island	NM	NM	NM	0	1	NM	NM	0	1	0	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	34	47	-26.5%	8	9	22	32	NM	NM	4	5
New Jersey	2	NM	NM	NM	NM	2	NM	0	0	0	0
New York	20	28	-28.9%	8	9	8	14	NM	NM	4	5
Pennsylvania	12	17	-29.1%	0	0	12	17	0	0	NM	NM
East North Central	48	36	35.0%	32	20	14	15	1	NM	1	1
Illinois	5	5	-12.4%	1	1	4	5	NM	NM	0	0
Indiana	11	6	74.6%	10	6	0	0	0	0	1	1
Michigan	16	6	177.1%	16	5	0	0	0	0	0	0
Ohio	14	16	-13.5%	4	6	9	10	0	0	0	0
Wisconsin	NM	2	NM	NM	NM	1	0	0	0	NM	NM
West North Central	39	41	-4.8%	39	41	1	NM	0	0	0	0
Iowa	23	24	-4.9%	23	24	NM	NM	0	0	0	0
Kansas	6	3	96.0%	6	3	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	1	NM	0	0	0	0
Missouri	5	5	-11.8%	5	5	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	2	5	-49.2%	2	5	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	NM	0	0
South Atlantic	72	143	-50.1%	54	120	10	16	1	2	7	5
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	17	70	-75.3%	14	68	0	0	0	0	3	NM
Georgia	1	10	-92.5%	-1	7	NM	NM	0	0	NM	NM
Maryland	5	7	-24.7%	0	0	5	7	0	0	0	0
North Carolina	19	20	-6.5%	18	17	NM	3	0	0	1	NM
South Carolina	6	11	-41.1%	5	9	0	0	0	0	2	2
Virginia	11	19	-38.8%	8	14	3	3	1	2	NM	NM
West Virginia	11	5	113.8%	11	5	0	0	0	0	0	0
East South Central	19	15	27.4%	16	14	NM	NM	0	0	3	NM
Alabama	2	4	-47.4%	1	3	NM	NM	0	0	NM	NM
Kentucky	8	7	12.1%	8	7	0	0	0	0	0	0
Mississippi	2	1	236.4%	0	1	0	0	0	0	2	0
Tennessee	7	3	98.2%	6	3	0	NM	0	0	0	0
West South Central	11	9	22.9%	9	3	1	6	0	0	0	0
Arkansas	5	NM	NM	5	NM	0	0	0	0	0	0
Louisiana	1	NM	NM	1	NM	0	0	0	0	0	0
Oklahoma	1	1	-14.2%	1	1	0	0	0	0	0	0
Texas	3	7	-49.8%	2	1	1	5	0	0	0	0
Mountain	13	16	-19.8%	12	14	1	3	0	0	0	0
Arizona	4	2	61.4%	4	2	0	0	0	0	0	0
Colorado	1	1	-33.6%	1	1	0	0	0	0	0	0
Idaho	0	0	-33.3%	0	0	0	0	0	0	0	0
Montana	1	2	-49.2%	NM	NM	1	2	0	0	0	0
Nevada	0	0	-98.3%	0	0	0	0	0	0	0	0
New Mexico	NM	4	NM	NM	4	0	0	0	0	0	0
Utah	3	4	-37.6%	3	4	0	0	0	0	0	0
Wyoming	4	2	54.6%	4	2	0	0	0	0	0	0
Pacific Contiguous	4	4	-3.8%	3	3	0	0	0	0	NM	NM
California	3	3	-7.1%	3	3	0	0	0	0	0	0
Oregon	0	0	-100.0%	0	0	0	0	0	0	0	0
Washington	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Pacific Noncontiguous	562	652	-13.7%	425	554	115	76	1	1	22	21
Alaska	65	93	-30.5%	60	87	0	0	1	1	5	5
Hawaii	497	558	-10.9%	365	467	115	76	0	0	17	15
U.S. Total	819	979	-16.3%	598	779	174	155	8	10	40	35

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	934	92	919.9%	139	9	763	63	NM	17	NM	2
Connecticut	198	10	NM	NM	2	193	7	NM	1	1	0
Maine	159	16	918.0%	0	0	151	13	1	1	NM	2
Massachusetts	374	51	635.8%	51	NM	310	42	NM	8	1	0
New Hampshire	150	9	NM	84	4	59	NM	7	5	0	0
Rhode Island	NM	NM	NM	0	2	NM	NM	1	2	0	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	1,936	196	885.5%	604	63	1,304	117	NM	NM	NM	14
New Jersey	214	19	NM	1	NM	209	19	3	0	1	0
New York	1,340	120	NM	601	62	720	42	NM	NM	NM	13
Pennsylvania	382	58	564.4%	2	0	376	56	1	1	NM	NM
East North Central	188	114	65.5%	98	67	80	41	NM	1	7	4
Illinois	17	16	11.7%	NM	2	13	13	NM	NM	0	0
Indiana	35	23	53.4%	29	20	0	0	0	0	6	3
Michigan	32	19	67.5%	31	18	0	0	1	0	0	1
Ohio	96	47	103.1%	29	19	66	28	0	0	1	1
Wisconsin	NM	8	NM	NM	8	1	0	NM	0	NM	NM
West North Central	143	125	14.3%	132	123	NM	NM	1	0	0	0
Iowa	68	71	-4.5%	68	71	NM	0	0	0	0	0
Kansas	NM	11	NM	NM	11	0	0	0	0	0	0
Minnesota	NM	9	NM	NM	7	NM	NM	1	0	0	0
Missouri	30	16	92.3%	30	16	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	7	15	-56.4%	7	15	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	NM	0	0
South Atlantic	1,687	414	307.9%	1,056	313	585	81	13	6	NM	14
Delaware	135	NM	NM	6	0	129	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	140	NM	NM	136	NM	1	0	0	NM	NM
Georgia	NM	21	NM	NM	10	NM	NM	3	1	NM	NM
Maryland	211	24	776.3%	3	0	206	23	1	0	2	0
North Carolina	312	64	385.3%	289	57	NM	5	0	0	NM	NM
South Carolina	184	24	652.0%	NM	21	38	0	0	0	5	3
Virginia	480	99	383.6%	NM	55	111	38	10	5	NM	NM
West Virginia	52	32	60.8%	44	32	9	0	0	0	0	0
East South Central	105	66	59.9%	72	61	24	2	0	0	NM	NM
Alabama	43	12	255.4%	NM	8	24	2	0	0	NM	NM
Kentucky	25	27	-8.5%	25	27	0	0	0	0	0	0
Mississippi	NM	3	NM	NM	3	0	0	0	0	3	0
Tennessee	31	23	35.0%	31	22	0	0	0	0	0	0
West South Central	NM	37	NM	NM	16	NM	21	0	0	3	0
Arkansas	NM	13	NM	NM	3	0	11	0	0	2	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	4	4	-5.8%	4	4	0	0	0	0	0	0
Texas	NM	18	NM	NM	7	NM	11	0	0	1	0
Mountain	43	59	-27.1%	40	53	3	6	0	0	0	0
Arizona	15	15	-4.7%	15	15	0	0	0	0	0	0
Colorado	3	2	60.4%	3	2	0	0	0	0	0	0
Idaho	0	0	-33.3%	0	0	0	0	0	0	0	0
Montana	2	5	-56.1%	NM	NM	2	5	0	0	0	0
Nevada	0	1	-51.8%	0	0	0	1	0	0	0	0
New Mexico	NM	15	NM	NM	15	0	0	0	0	0	0
Utah	9	10	-14.2%	9	10	0	0	0	0	0	0
Wyoming	9	11	-17.7%	9	11	0	0	0	0	0	0
Pacific Contiguous	18	25	-27.5%	8	13	NM	4	0	0	8	8
California	15	15	4.5%	8	8	0	0	NM	0	7	6
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	NM	7	NM	NM	2	NM	4	0	0	NM	NM
Pacific Noncontiguous	1,733	1,913	-9.4%	1,400	1,559	268	286	4	3	60	65
Alaska	221	285	-22.5%	206	267	0	0	3	3	12	15
Hawaii	1,512	1,629	-7.2%	1,195	1,292	268	286	1	0	48	50
U.S. Total	6,831	3,040	124.7%	3,585	2,276	3,046	622	NM	31	147	111

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	3	7	-62.7%	0	0	0	0	0	0	3	7
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	88	123	-28.4%	86	56	0	57	0	0	2	11
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	78	63	25.3%	76	52	0	0	0	0	2	11
Ohio	0	57	-100.0%	0	0	0	57	0	0	0	0
Wisconsin	10	4	145.9%	10	4	0	0	0	0	0	0
West North Central	8	9	-14.4%	0	0	0	0	1	1	7	8
Iowa	8	9	-14.4%	0	0	0	0	1	1	7	8
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	95	NM	NM	74	0	0	0	0	0	NM	NM
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	74	0	NM	74	0	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	70	-100.0%	0	70	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	70	-100.0%	0	70	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	353	443	-20.3%	330	409	0	0	0	0	23	34
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	346	434	-20.4%	330	409	0	0	0	0	15	25
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	NM	NM	0	0	0	0	0	0	8	NM
Mountain	41	35	18.0%	0	0	41	35	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	41	35	18.0%	0	0	41	35	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	593	707	-16.1%	491	535	41	92	1	1	60	79

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 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	34	43	-20.4%	0	0	0	0	0	0	34	43
New Jersey	14	21	-34.1%	0	0	0	0	0	0	14	21
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	444	418	6.3%	322	196	112	194	0	0	10	28
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	303	213	42.4%	293	185	0	0	0	0	10	28
Ohio	112	194	-42.3%	0	0	112	194	0	0	0	0
Wisconsin	29	11	164.3%	29	11	0	0	0	0	0	0
West North Central	24	17	35.8%	0	0	0	0	3	3	21	15
Iowa	24	17	35.8%	0	0	0	0	3	3	21	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	448	232	92.7%	399	198	0	0	0	0	NM	NM
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	399	198	101.7%	399	198	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	202	-100.0%	0	202	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	202	-100.0%	0	202	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	1,160	1,294	-10.3%	1,114	1,222	0	0	0	0	45	72
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,148	1,269	-9.5%	1,114	1,222	0	0	0	0	34	47
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	11	25	-53.9%	0	0	0	0	0	0	11	25
Mountain	117	106	10.5%	0	0	117	106	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	117	106	10.5%	0	0	117	106	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	2,226	2,312	-3.7%	1,836	1,818	229	300	3	3	159	191

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, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	3,833	3,727	2.8%	NM	NM	3,649	3,518	77	79	100	112
Connecticut	1,513	1,184	27.8%	3	4	1,432	1,104	32	NM	45	44
Maine	212	198	7.3%	0	0	182	NM	2	2	NM	41
Massachusetts	1,683	1,817	-7.4%	NM	NM	1,616	1,740	39	40	24	23
New Hampshire	36	206	-82.5%	0	0	33	201	1	2	3	3
Rhode Island	389	322	20.9%	0	0	386	319	3	3	0	0
Vermont	0	0	-42.2%	0	0	0	0	0	0	0	0
Middle Atlantic	12,422	12,199	1.8%	634	854	11,495	11,067	93	99	201	179
New Jersey	3,225	3,567	-9.6%	NM	NM	3,160	3,493	18	20	37	33
New York	3,344	4,098	-18.4%	623	833	2,609	3,165	61	65	51	35
Pennsylvania	5,854	4,534	29.1%	1	0	5,726	4,409	14	14	114	111
East North Central	10,420	8,768	18.8%	3,322	3,838	6,707	4,547	110	111	281	271
Illinois	994	1,413	-29.6%	42	NM	865	1,182	28	29	59	63
Indiana	1,814	1,763	2.9%	547	1,372	1,131	268	13	11	123	111
Michigan	2,944	2,345	25.6%	819	738	2,020	1,514	54	45	52	47
Ohio	3,250	2,236	45.3%	586	720	2,635	1,478	11	19	17	20
Wisconsin	1,418	1,011	40.3%	1,329	868	56	105	4	6	29	31
West North Central	2,174	1,419	53.2%	1,845	1,158	253	204	22	22	54	35
Iowa	495	150	230.9%	457	132	0	0	7	6	31	11
Kansas	219	172	27.4%	216	167	0	0	0	0	NM	5
Minnesota	794	526	50.9%	689	432	82	74	7	7	15	14
Missouri	508	385	32.0%	327	241	170	NM	7	8	4	5
Nebraska	29	63	-54.4%	28	63	0	0	1	0	0	0
North Dakota	85	59	44.0%	84	59	0	0	0	0	1	1
South Dakota	44	65	-32.2%	44	65	0	0	0	0	0	0
South Atlantic	26,607	25,913	2.7%	22,004	21,244	4,215	4,224	52	48	335	396
Delaware	548	628	-12.8%	0	0	487	542	0	0	61	86
District of Columbia	3	4	-21.6%	0	0	0	0	3	4	0	0
Florida	12,232	12,140	0.8%	11,744	11,371	363	644	2	2	122	122
Georgia	3,909	3,938	-0.7%	3,188	2,896	671	984	0	0	50	58
Maryland	952	637	49.3%	174	0	724	589	46	40	8	8
North Carolina	3,633	3,482	4.4%	3,180	3,053	440	417	0	1	12	10
South Carolina	1,323	1,154	14.7%	1,027	908	284	235	0	0	13	11
Virginia	3,965	3,840	3.2%	2,681	2,993	1,228	788	2	1	54	59
West Virginia	43	91	-52.3%	10	23	NM	NM	0	0	16	41
East South Central	9,940	10,302	-3.5%	6,545	6,857	3,184	3,236	16	NM	195	192
Alabama	4,065	4,193	-3.0%	1,329	1,287	2,646	2,813	0	0	90	93
Kentucky	1,236	785	57.4%	1,151	706	67	57	0	0	18	23
Mississippi	3,696	4,136	-10.6%	3,191	3,734	469	366	0	0	37	35
Tennessee	943	1,188	-20.7%	875	1,131	2	NM	16	NM	49	41
West South Central	23,695	21,998	7.7%	6,162	6,008	12,572	10,718	46	71	4,915	5,202
Arkansas	1,465	1,450	1.0%	327	427	1,113	998	0	0	24	25
Louisiana	4,074	4,592	-11.3%	2,115	2,260	292	417	12	16	1,655	1,899
Oklahoma	2,196	1,794	22.4%	1,261	1,117	907	655	0	0	27	22
Texas	15,961	14,162	12.7%	2,458	2,204	10,260	8,648	34	56	3,209	3,255
Mountain	5,905	4,581	28.9%	4,928	3,753	791	662	38	36	148	130
Arizona	1,495	887	68.5%	1,393	750	89	125	12	11	0	0
Colorado	1,140	723	57.6%	991	596	147	125	0	0	2	2
Idaho	111	188	-41.2%	NM	102	85	72	3	4	13	11
Montana	26	32	-20.1%	24	28	NM	4	0	0	0	1
Nevada	1,868	1,738	7.5%	1,716	1,617	114	97	5	6	33	18
New Mexico	752	628	19.7%	391	399	348	221	9	9	3	0
Utah	450	325	38.3%	399	257	6	18	7	6	37	44
Wyoming	64	58	9.5%	3	NM	0	0	0	0	60	54
Pacific Contiguous	8,633	5,628	53.4%	3,453	2,062	4,104	2,561	156	156	921	849
California	6,510	4,746	37.2%	2,480	1,616	2,980	2,148	150	152	900	831
Oregon	1,386	402	244.5%	659	180	715	211	4	2	9	9
Washington	737	479	53.7%	314	266	409	202	2	2	12	9
Pacific Noncontiguous	254	173	46.3%	247	167	0	0	0	0	7	7
Alaska	254	173	46.3%	247	167	0	0	0	0	7	7
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	103,884	94,708	9.7%	49,147	45,959	46,971	40,738	610	638	7,156	7,372

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	10,739	10,667	0.7%	NM	NM	10,207	10,117	216	226	285	296
Connecticut	4,136	3,882	6.6%	10	12	3,915	3,652	89	93	123	125
Maine	430	478	-10.0%	0	0	337	374	7	7	86	98
Massachusetts	4,912	4,967	-1.1%	NM	NM	4,714	4,774	108	112	68	66
New Hampshire	192	481	-60.1%	0	0	182	468	2	5	8	8
Rhode Island	1,068	859	24.4%	0	0	1,058	849	9	9	0	0
Vermont	0	1	-31.0%	0	0	0	0	0	0	0	0
Middle Atlantic	34,295	33,082	3.7%	2,132	2,327	31,353	30,005	260	268	550	482
New Jersey	8,159	8,435	-3.3%	NM	NM	7,977	8,248	47	51	103	96
New York	9,842	11,199	-12.1%	2,098	2,286	7,439	8,663	171	180	134	70
Pennsylvania	16,294	13,449	21.2%	3	1	15,937	13,095	42	37	312	316
East North Central	30,056	22,659	32.6%	10,847	9,463	18,046	12,099	349	342	813	755
Illinois	2,844	3,295	-13.7%	140	239	2,449	2,808	87	78	168	169
Indiana	5,550	4,644	19.5%	2,781	3,599	2,365	695	44	43	360	307
Michigan	7,709	5,822	32.4%	2,138	1,773	5,267	3,777	157	138	146	133
Ohio	9,881	6,395	54.5%	1,925	1,648	7,854	4,632	47	62	55	53
Wisconsin	4,072	2,504	62.6%	3,863	2,204	111	187	14	20	85	94
West North Central	5,914	3,396	74.2%	5,056	2,773	615	451	71	53	173	118
Iowa	1,308	411	218.3%	1,195	344	0	0	25	12	88	54
Kansas	565	371	52.4%	537	361	0	0	0	0	28	10
Minnesota	2,079	1,353	53.7%	1,790	1,099	223	188	26	27	40	39
Missouri	1,519	834	82.0%	1,095	545	392	263	18	13	14	14
Nebraska	82	109	-24.4%	81	109	0	0	2	1	0	0
North Dakota	233	185	25.9%	231	184	0	0	0	0	3	1
South Dakota	128	132	-3.5%	128	132	0	0	0	0	0	0
South Atlantic	78,299	71,970	8.8%	64,991	60,113	12,134	10,610	150	139	1,023	1,108
Delaware	1,258	1,460	-13.9%	0	0	1,095	1,217	0	0	162	243
District of Columbia	8	10	-21.7%	0	0	0	0	8	10	0	0
Florida	35,720	32,812	8.9%	33,907	30,868	1,447	1,580	5	7	360	357
Georgia	12,507	12,428	0.6%	9,933	9,588	2,421	2,697	0	0	153	143
Maryland	2,267	1,216	86.5%	567	0	1,547	1,076	130	116	24	23
North Carolina	10,264	9,862	4.1%	8,949	8,647	1,273	1,185	3	3	39	27
South Carolina	3,711	3,265	13.7%	3,064	2,816	613	416	0	0	34	33
Virginia	12,373	10,708	15.6%	8,531	8,160	3,674	2,387	4	2	163	158
West Virginia	192	210	-8.8%	39	34	NM	NM	0	0	89	123
East South Central	31,119	25,664	21.3%	21,223	17,070	9,271	7,983	53	49	572	562
Alabama	12,232	10,962	11.6%	4,109	3,867	7,849	6,818	0	0	274	277
Kentucky	3,831	1,669	129.5%	3,580	1,526	189	78	0	0	61	66
Mississippi	12,361	10,413	18.7%	11,018	9,220	1,228	1,085	5	3	110	105
Tennessee	2,695	2,620	2.8%	2,516	2,457	4	NM	48	46	127	115
West South Central	75,277	61,055	23.3%	19,769	15,833	39,599	29,119	153	193	15,756	15,910
Arkansas	4,527	3,101	46.0%	1,121	1,070	3,319	1,952	0	0	86	79
Louisiana	13,776	12,972	6.2%	6,949	5,985	879	934	37	45	5,911	6,008
Oklahoma	7,015	5,508	27.4%	3,849	3,643	3,086	1,807	0	0	80	58
Texas	49,959	39,475	26.6%	7,850	5,136	32,315	24,426	115	148	9,679	9,764
Mountain	18,133	15,500	17.0%	14,634	12,432	2,983	2,583	110	103	405	382
Arizona	4,458	2,780	60.3%	3,769	2,159	654	589	35	32	0	0
Colorado	3,761	2,540	48.1%	3,202	2,122	555	413	0	0	4	5
Idaho	455	590	-22.8%	144	318	265	222	10	10	36	39
Montana	88	94	-6.1%	73	74	15	18	0	0	1	2
Nevada	5,692	5,800	-1.9%	5,117	5,273	481	462	16	15	79	51
New Mexico	2,001	2,058	-2.8%	998	1,196	972	836	28	26	3	1
Utah	1,475	1,450	1.7%	1,305	1,271	42	43	21	19	107	117
Wyoming	202	186	8.4%	27	19	0	0	0	0	174	167
Pacific Contiguous	25,290	22,664	11.6%	10,361	8,726	11,849	10,883	476	477	2,603	2,578
California	19,746	18,235	8.3%	7,698	6,610	9,044	8,641	458	461	2,546	2,523
Oregon	3,515	2,599	35.2%	1,584	948	1,896	1,618	11	10	22	24
Washington	2,029	1,830	10.9%	1,079	1,168	909	625	7	6	35	31
Pacific Noncontiguous	681	538	26.7%	666	517	0	0	0	2	15	19
Alaska	681	538	26.7%	666	517	0	0	0	2	15	19
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	309,802	267,195	15.9%	149,712	129,283	136,058	113,850	1,837	1,851	22,195	22,210

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, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	77	80	-3.5%	0	0	0	0	0	0	77	80
New Jersey	20	20	1.4%	0	0	0	0	0	0	20	20
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	57	61	-5.1%	0	0	0	0	0	0	57	61
East North Central	518	554	-6.5%	17	17	196	214	0	0	304	322
Illinois	14	12	17.9%	0	0	0	0	0	0	14	12
Indiana	282	295	-4.3%	NM	NM	0	0	0	0	281	293
Michigan	151	160	-6.0%	16	16	134	144	0	0	0	0
Ohio	71	87	-18.0%	0	0	62	70	0	0	9	17
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	5	-12.3%	0	0	0	0	0	0	4	5
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	5	-12.3%	0	0	0	0	0	0	4	5
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	21	54	-60.1%	0	0	0	0	0	0	21	54
Delaware	19	51	-62.0%	0	0	0	0	0	0	19	51
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-39.9%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	3	-29.6%	0	0	0	0	0	0	2	3
East South Central	NM	4	NM	0	0	0	0	0	0	NM	4
Alabama	NM	3	NM	0	0	0	0	0	0	NM	3
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	1	-58.6%	0	0	0	0	0	0	0	1
West South Central	370	381	-2.9%	0	0	103	117	0	0	267	264
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	176	170	3.8%	0	0	0	0	0	0	176	170
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	194	211	-8.3%	0	0	103	117	0	0	91	94
Mountain	37	35	7.0%	0	0	2	1	0	0	35	33
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	1	41.7%	0	0	2	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-98.6%	0	0	0	0	0	0	0	0
Wyoming	35	33	6.1%	0	0	0	0	0	0	35	33
Pacific Contiguous	160	141	13.2%	0	0	36	23	0	0	124	118
California	124	118	5.0%	0	0	0	0	0	0	124	118
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	23	54.6%	0	0	36	23	0	0	0	0
Pacific Noncontiguous	5	5	0.6%	0	0	0	0	0	0	5	5
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	5	0.6%	0	0	0	0	0	0	5	5
U.S. Total	1,193	1,257	-5.1%	17	17	337	355	0	0	839	885

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 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	197	218	-9.5%	0	0	0	0	0	0	197	218
New Jersey	57	57	0.5%	0	0	0	0	0	0	57	57
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	140	161	-13.0%	0	0	0	0	0	0	140	161
East North Central	1,340	1,530	-12.4%	62	50	527	589	0	0	751	891
Illinois	36	48	-25.4%	0	0	0	0	0	0	36	48
Indiana	693	800	-13.4%	NM	NM	0	0	0	0	691	796
Michigan	439	454	-3.3%	59	46	380	407	0	0	0	0
Ohio	172	228	-24.6%	0	0	147	182	0	0	25	47
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	12	12	-1.0%	0	0	0	0	0	0	12	12
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	12	12	-1.0%	0	0	0	0	0	0	12	12
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	56	133	-57.7%	0	0	0	0	0	0	56	133
Delaware	49	124	-60.4%	0	0	0	0	0	0	49	124
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	-18.5%	0	0	0	0	0	0	1	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	6	8	-19.2%	0	0	0	0	0	0	6	8
East South Central	3	9	-61.9%	0	0	0	0	0	0	3	9
Alabama	NM	6	NM	0	0	0	0	0	0	NM	6
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	3	-51.7%	0	0	0	0	0	0	1	3
West South Central	1,126	1,167	-3.5%	0	0	321	334	0	0	805	833
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	523	543	-3.8%	0	0	0	0	0	0	523	543
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	603	623	-3.2%	0	0	321	334	0	0	282	289
Mountain	108	111	-2.0%	0	0	3	4	0	0	106	107
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	3	4	-30.7%	0	0	3	4	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	5	-99.7%	0	0	0	0	0	0	0	5
Wyoming	106	102	3.9%	0	0	0	0	0	0	106	102
Pacific Contiguous	491	377	30.2%	0	0	101	82	0	0	389	294
California	389	294	32.2%	0	0	0	0	0	0	389	294
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	101	82	23.2%	0	0	101	82	0	0	0	0
Pacific Noncontiguous	12	12	-5.7%	0	0	0	0	0	0	12	12
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	12	12	-5.7%	0	0	0	0	0	0	12	12
U.S. Total	3,345	3,568	-6.2%	62	50	953	1,009	0	0	2,331	2,509

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	2,570	2,971	-13.5%	0	0	2,570	2,971	0	0	0	0
Connecticut	1,558	1,549	0.5%	0	0	1,558	1,549	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	83	496	-83.3%	0	0	83	496	0	0	0	0
New Hampshire	929	926	0.4%	0	0	929	926	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	13,801	13,042	5.8%	0	0	13,801	13,042	0	0	0	0
New Jersey	3,098	3,079	0.6%	0	0	3,098	3,079	0	0	0	0
New York	3,573	3,275	9.1%	0	0	3,573	3,275	0	0	0	0
Pennsylvania	7,131	6,688	6.6%	0	0	7,131	6,688	0	0	0	0
East North Central	12,109	11,597	4.4%	1,671	2,171	10,439	9,426	0	0	0	0
Illinois	7,972	7,578	5.2%	0	0	7,972	7,578	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,179	2,581	-15.6%	1,671	2,171	508	410	0	0	0	0
Ohio	1,062	757	40.3%	0	0	1,062	757	0	0	0	0
Wisconsin	897	680	31.8%	0	0	897	680	0	0	0	0
West North Central	3,998	4,129	-3.2%	3,547	3,672	451	457	0	0	0	0
Iowa	451	457	-1.4%	0	0	451	457	0	0	0	0
Kansas	875	911	-3.9%	875	911	0	0	0	0	0	0
Minnesota	1,297	1,296	0.1%	1,297	1,296	0	0	0	0	0	0
Missouri	904	871	3.9%	904	871	0	0	0	0	0	0
Nebraska	471	595	-20.8%	471	595	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,252	15,798	2.9%	15,280	14,582	972	1,216	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	2,262	1,857	21.8%	2,262	1,857	0	0	0	0	0	0
Georgia	3,010	2,494	20.7%	3,010	2,494	0	0	0	0	0	0
Maryland	972	1,216	-20.0%	0	0	972	1,216	0	0	0	0
North Carolina	3,213	3,054	5.2%	3,213	3,054	0	0	0	0	0	0
South Carolina	4,547	4,421	2.8%	4,547	4,421	0	0	0	0	0	0
Virginia	2,248	2,755	-18.4%	2,248	2,755	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,257	6,728	7.9%	7,257	6,728	0	0	0	0	0	0
Alabama	2,732	2,987	-8.5%	2,732	2,987	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,036	995	4.1%	1,036	995	0	0	0	0	0	0
Tennessee	3,490	2,746	27.1%	3,490	2,746	0	0	0	0	0	0
West South Central	6,154	5,499	11.9%	2,616	2,211	3,538	3,288	0	0	0	0
Arkansas	1,214	952	27.6%	1,214	952	0	0	0	0	0	0
Louisiana	1,402	1,260	11.3%	1,402	1,260	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,538	3,288	7.6%	0	0	3,538	3,288	0	0	0	0
Mountain	2,977	2,969	0.3%	2,977	2,969	0	0	0	0	0	0
Arizona	2,977	2,969	0.3%	2,977	2,969	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,913	2,361	-19.0%	1,913	2,361	0	0	0	0	0	0
California	1,047	1,569	-33.3%	1,047	1,569	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	866	792	9.4%	866	792	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	67,033	65,093	3.0%	35,262	34,693	31,770	30,400	0	0	0	0

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	8,160	8,549	-4.6%	0	0	8,160	8,549	0	0	0	0
Connecticut	4,528	4,508	0.5%	0	0	4,528	4,508	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	932	1,346	-30.8%	0	0	932	1,346	0	0	0	0
New Hampshire	2,701	2,696	0.2%	0	0	2,701	2,696	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	41,500	39,943	3.9%	0	0	41,500	39,943	0	0	0	0
New Jersey	9,036	9,017	0.2%	0	0	9,036	9,017	0	0	0	0
New York	10,920	9,800	11.4%	0	0	10,920	9,800	0	0	0	0
Pennsylvania	21,544	21,126	2.0%	0	0	21,544	21,126	0	0	0	0
East North Central	39,394	37,827	4.1%	6,524	6,835	32,870	30,992	0	0	0	0
Illinois	24,461	23,400	4.5%	0	0	24,461	23,400	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,195	8,398	-2.4%	6,524	6,835	1,671	1,563	0	0	0	0
Ohio	4,129	3,642	13.4%	0	0	4,129	3,642	0	0	0	0
Wisconsin	2,609	2,387	9.3%	0	0	2,609	2,387	0	0	0	0
West North Central	11,973	12,084	-0.9%	10,658	10,758	1,315	1,327	0	0	0	0
Iowa	1,315	1,327	-0.9%	0	0	1,315	1,327	0	0	0	0
Kansas	2,611	2,648	-1.4%	2,611	2,648	0	0	0	0	0	0
Minnesota	3,803	3,773	0.8%	3,803	3,773	0	0	0	0	0	0
Missouri	2,653	2,607	1.8%	2,653	2,607	0	0	0	0	0	0
Nebraska	1,592	1,731	-8.0%	1,592	1,731	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	50,961	49,619	2.7%	47,682	46,219	3,279	3,399	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,517	6,676	12.6%	7,517	6,676	0	0	0	0	0	0
Georgia	8,281	7,592	9.1%	8,281	7,592	0	0	0	0	0	0
Maryland	3,279	3,399	-3.6%	0	0	3,279	3,399	0	0	0	0
North Carolina	10,256	10,240	0.1%	10,256	10,240	0	0	0	0	0	0
South Carolina	14,114	13,744	2.7%	14,114	13,744	0	0	0	0	0	0
Virginia	7,514	7,968	-5.7%	7,514	7,968	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	21,570	20,501	5.2%	21,570	20,501	0	0	0	0	0	0
Alabama	9,289	9,824	-5.4%	9,289	9,824	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,188	1,707	28.2%	2,188	1,707	0	0	0	0	0	0
Tennessee	10,094	8,970	12.5%	10,094	8,970	0	0	0	0	0	0
West South Central	18,184	17,488	4.0%	7,406	6,953	10,779	10,535	0	0	0	0
Arkansas	3,840	3,424	12.2%	3,840	3,424	0	0	0	0	0	0
Louisiana	3,566	3,529	1.0%	3,566	3,529	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	10,779	10,535	2.3%	0	0	10,779	10,535	0	0	0	0
Mountain	8,518	8,633	-1.3%	8,518	8,633	0	0	0	0	0	0
Arizona	8,518	8,633	-1.3%	8,518	8,633	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	6,212	7,130	-12.9%	6,212	7,130	0	0	0	0	0	0
California	3,696	4,741	-22.0%	3,696	4,741	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,517	2,389	5.3%	2,517	2,389	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	206,472	201,774	2.3%	108,569	107,029	97,902	94,745	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	632	616	2.7%	86	82	512	499	0	0	35	34
Connecticut	25	24	5.0%	4	2	21	22	0	0	0	0
Maine	302	294	2.7%	0	0	268	260	0	0	34	34
Massachusetts	76	74	2.0%	NM	NM	59	57	0	0	1	1
New Hampshire	118	116	1.7%	28	27	90	89	0	0	0	0
Rhode Island	0	0	104.2%	0	0	0	0	0	0	0	0
Vermont	111	107	3.5%	39	37	72	70	0	0	0	0
Middle Atlantic	2,917	2,750	6.1%	2,283	2,133	625	610	1	1	8	7
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,661	2,496	6.6%	2,272	2,118	381	370	1	1	8	7
Pennsylvania	250	251	-0.6%	12	14	238	237	0	0	0	0
East North Central	522	547	-4.6%	456	481	49	NM	0	0	NM	NM
Illinois	11	13	-13.2%	NM	5	9	NM	0	0	0	0
Indiana	43	41	3.5%	43	41	0	0	0	0	0	0
Michigan	153	165	-7.2%	140	151	NM	NM	0	0	NM	NM
Ohio	50	49	2.7%	32	31	18	18	0	0	0	0
Wisconsin	265	280	-5.1%	240	253	NM	NM	0	0	NM	NM
West North Central	1,104	1,231	-10.3%	1,071	1,192	NM	NM	0	0	NM	NM
Iowa	86	NM	NM	85	NM	0	1	0	0	0	0
Kansas	1	2	-21.3%	0	0	1	2	0	0	0	0
Minnesota	114	120	-5.3%	82	NM	NM	NM	0	0	NM	NM
Missouri	127	125	1.4%	127	125	0	0	0	0	0	0
Nebraska	151	160	-6.0%	151	160	0	0	0	0	0	0
North Dakota	194	223	-12.7%	194	223	0	0	0	0	0	0
South Dakota	431	514	-16.2%	431	514	0	0	0	0	0	0
South Atlantic	1,452	1,485	-2.3%	1,162	1,142	237	292	2	1	51	50
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	18	17	1.6%	18	17	0	0	0	0	0	0
Georgia	263	284	-7.4%	261	282	NM	NM	0	0	1	2
Maryland	181	243	-25.3%	0	0	181	243	0	0	0	0
North Carolina	437	400	9.3%	429	395	NM	NM	1	1	NM	NM
South Carolina	246	249	-1.5%	239	245	NM	NM	0	0	0	0
Virginia	147	137	7.6%	140	130	7	NM	0	0	0	0
West Virginia	160	156	3.1%	76	73	36	35	0	0	49	48
East South Central	1,899	1,921	-1.2%	1,898	1,920	NM	NM	0	0	0	0
Alabama	885	843	5.0%	885	843	0	0	0	0	0	0
Kentucky	323	393	-17.8%	322	392	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	690	685	0.7%	690	685	0	0	0	0	0	0
West South Central	872	860	1.5%	754	746	118	113	NM	NM	0	0
Arkansas	358	352	1.8%	354	348	NM	NM	0	0	0	0
Louisiana	112	107	4.3%	0	0	112	107	0	0	0	0
Oklahoma	260	255	1.7%	260	255	0	0	0	0	0	0
Texas	143	145	-1.7%	140	142	2	3	NM	NM	0	0
Mountain	3,141	3,383	-7.2%	3,015	3,243	126	140	0	1	0	0
Arizona	686	669	2.5%	686	669	0	0	0	0	0	0
Colorado	201	225	-10.3%	178	198	NM	NM	0	1	0	0
Idaho	905	1,008	-10.3%	822	915	82	93	0	0	0	0
Montana	1,004	1,105	-9.2%	990	1,090	NM	NM	0	0	0	0
Nevada	145	146	-0.5%	140	141	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	78	90	-13.6%	77	89	1	2	0	0	0	0
Wyoming	98	111	-12.0%	98	111	0	0	0	0	0	0
Pacific Contiguous	13,168	17,234	-23.6%	12,990	16,902	176	330	NM	2	0	0
California	1,830	4,515	-59.5%	1,725	4,261	103	252	NM	2	0	0
Oregon	3,672	4,067	-9.7%	3,644	4,036	NM	NM	0	0	0	0
Washington	7,667	8,653	-11.4%	7,622	8,605	NM	NM	0	0	0	0
Pacific Noncontiguous	180	194	-7.0%	154	170	5	1	NM	NM	NM	NM
Alaska	169	189	-10.3%	152	170	0	0	NM	NM	0	0
Hawaii	11	NM	NM	3	0	5	1	0	0	NM	NM
U.S. Total	25,887	30,221	-14.3%	23,870	28,009	1,870	2,059	NM	NM	124	127

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	1,753	1,767	-0.8%	237	237	1,418	1,434	1	1	98	96
Connecticut	71	71	1.1%	11	6	61	65	0	0	0	0
Maine	832	834	-0.3%	0	0	736	740	0	0	95	94
Massachusetts	212	216	-2.0%	44	47	164	166	1	1	2	2
New Hampshire	333	337	-1.3%	76	76	257	261	0	0	0	0
Rhode Island	1	1	57.9%	0	0	1	1	0	0	0	0
Vermont	305	309	-1.3%	106	107	198	201	0	0	0	0
Middle Atlantic	7,889	7,799	1.1%	6,135	6,018	1,733	1,760	2	2	19	19
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	7,181	7,070	1.6%	6,107	5,987	1,053	1,062	2	2	19	19
Pennsylvania	696	723	-3.7%	28	31	667	691	0	0	0	0
East North Central	1,635	1,602	2.1%	1,441	1,405	143	141	0	0	51	55
Illinois	32	35	-10.1%	10	13	22	22	0	0	0	0
Indiana	116	116	-0.2%	116	116	0	0	0	0	0	0
Michigan	487	468	4.0%	446	428	NM	NM	0	0	NM	NM
Ohio	138	139	-1.0%	89	89	49	50	0	0	0	0
Wisconsin	863	843	2.4%	780	758	39	NM	0	0	44	48
West North Central	3,369	3,253	3.6%	3,261	3,136	75	76	0	0	33	41
Iowa	287	279	2.9%	286	277	1	2	0	0	0	0
Kansas	5	7	-25.7%	0	0	5	7	0	0	0	0
Minnesota	374	370	0.9%	272	263	69	66	0	0	33	41
Missouri	353	365	-3.2%	353	365	0	0	0	0	0	0
Nebraska	486	468	4.0%	486	468	0	0	0	0	0	0
North Dakota	593	564	5.1%	593	564	0	0	0	0	0	0
South Dakota	1,271	1,200	5.9%	1,271	1,200	0	0	0	0	0	0
South Atlantic	4,189	4,412	-5.0%	3,288	3,446	758	822	4	3	140	141
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	49	50	-2.2%	49	50	0	0	0	0	0	0
Georgia	776	869	-10.7%	770	862	3	NM	0	0	3	4
Maryland	604	674	-10.4%	0	0	604	674	0	0	0	0
North Carolina	1,203	1,214	-0.8%	1,184	1,199	14	11	3	2	NM	NM
South Carolina	705	748	-5.8%	686	735	18	13	1	0	0	0
Virginia	412	414	-0.5%	393	395	19	20	0	0	0	0
West Virginia	440	442	-0.6%	206	205	99	102	0	0	135	135
East South Central	5,324	5,536	-3.8%	5,322	5,534	NM	NM	0	0	0	0
Alabama	2,387	2,465	-3.2%	2,387	2,465	0	0	0	0	0	0
Kentucky	1,009	1,079	-6.5%	1,006	1,077	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1,928	1,992	-3.2%	1,928	1,992	0	0	0	0	0	0
West South Central	2,429	2,492	-2.6%	2,105	2,173	322	318	NM	NM	0	0
Arkansas	996	1,022	-2.5%	986	1,014	10	NM	0	0	0	0
Louisiana	304	302	0.8%	0	0	304	302	0	0	0	0
Oklahoma	720	736	-2.2%	720	736	0	0	0	0	0	0
Texas	408	433	-5.7%	399	423	8	8	NM	NM	0	0
Mountain	9,466	8,997	5.2%	9,078	8,634	387	362	1	1	0	0
Arizona	1,858	1,843	0.8%	1,858	1,843	0	0	0	0	0	0
Colorado	592	572	3.5%	521	506	69	65	1	1	0	0
Idaho	2,816	2,691	4.6%	2,563	2,450	254	241	0	0	0	0
Montana	3,153	3,017	4.5%	3,109	2,975	44	NM	0	0	0	0
Nevada	436	293	48.8%	421	284	15	NM	0	0	0	0
New Mexico	72	NM	NM	72	NM	0	0	0	0	0	0
Utah	238	227	4.9%	234	222	4	5	0	0	0	0
Wyoming	301	286	5.0%	301	286	0	0	0	0	0	0
Pacific Contiguous	40,297	46,237	-12.8%	39,802	45,342	492	889	NM	6	0	0
California	4,594	11,939	-61.5%	4,331	11,267	259	665	NM	6	0	0
Oregon	11,449	11,178	2.4%	11,362	11,095	87	83	0	0	0	0
Washington	24,255	23,121	4.9%	24,109	22,980	146	141	0	0	0	0
Pacific Noncontiguous	551	519	6.0%	476	453	9	4	56	54	NM	NM
Alaska	527	504	4.7%	472	450	0	0	56	54	0	0
Hawaii	23	16	49.5%	5	3	9	4	0	0	NM	NM
U.S. Total	76,902	82,616	-6.9%	71,144	76,377	5,339	5,808	69	69	351	362

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	1,098	1,067	2.9%	84	83	905	868	18	19	91	97
Connecticut	74	75	-1.7%	0	0	73	75	0	0	NM	0
Maine	486	485	0.2%	0	0	389	380	7	8	91	97
Massachusetts	226	196	15.0%	7	NM	212	183	6	6	0	0
New Hampshire	185	196	-5.6%	25	28	155	164	5	4	0	0
Rhode Island	38	35	7.6%	0	0	37	34	1	1	0	0
Vermont	89	79	13.5%	51	47	39	32	0	0	0	0
Middle Atlantic	1,327	1,334	-0.5%	7	8	1,190	1,191	58	61	72	75
New Jersey	178	176	1.3%	7	8	142	139	28	29	NM	NM
New York	595	585	1.7%	0	0	561	551	17	16	18	18
Pennsylvania	553	573	-3.4%	0	0	487	501	13	16	53	57
East North Central	3,243	3,052	6.3%	374	375	2,700	2,519	18	19	152	138
Illinois	1,283	1,230	4.2%	3	4	1,278	1,226	NM	NM	0	0
Indiana	637	533	19.5%	37	34	591	490	2	2	7	7
Michigan	734	761	-3.5%	197	203	470	495	8	11	58	53
Ohio	255	244	4.3%	NM	NM	223	213	1	1	29	28
Wisconsin	334	284	17.7%	134	133	138	95	5	5	57	50
West North Central	7,678	7,674	0.0%	2,384	2,603	5,203	4,993	15	13	76	66
Iowa	2,136	2,252	-5.1%	1,366	1,462	763	783	4	4	2	3
Kansas	1,962	1,890	3.8%	199	200	1,761	1,689	NM	NM	0	0
Minnesota	1,423	1,360	4.7%	285	319	1,060	975	5	NM	73	61
Missouri	326	189	72.4%	4	4	318	184	4	2	0	0
Nebraska	523	547	-4.3%	24	25	498	520	1	2	0	0
North Dakota	1,014	1,089	-6.8%	415	482	599	605	0	0	NM	NM
South Dakota	294	348	-15.7%	92	111	202	237	0	0	0	0
South Atlantic	3,151	2,708	16.4%	515	303	1,683	1,452	34	37	918	916
Delaware	11	11	0.6%	NM	NM	8	8	1	1	NM	NM
District of Columbia	6	5	16.0%	0	0	6	5	0	0	0	0
Florida	683	508	34.4%	248	66	250	254	5	5	180	183
Georgia	615	593	3.7%	27	26	231	218	NM	NM	356	348
Maryland	125	121	4.0%	NM	NM	115	108	2	NM	7	10
North Carolina	822	708	16.1%	31	25	660	558	11	12	120	113
South Carolina	281	229	22.6%	52	43	86	41	0	0	143	145
Virginia	433	363	19.4%	157	143	151	88	15	17	111	116
West Virginia	176	171	2.7%	0	0	176	171	0	0	0	0
East South Central	576	556	3.7%	15	9	108	61	NM	NM	452	485
Alabama	309	295	4.8%	NM	0	52	38	0	0	254	257
Kentucky	42	38	9.8%	12	9	NM	1	0	0	29	28
Mississippi	126	125	0.8%	0	0	31	NM	0	0	95	124
Tennessee	99	98	1.5%	0	0	25	21	NM	NM	74	77
West South Central	10,997	10,197	7.8%	169	192	10,363	9,563	9	8	456	434
Arkansas	150	118	27.1%	NM	NM	29	12	1	1	120	105
Louisiana	239	230	3.9%	NM	0	7	7	0	0	232	224
Oklahoma	2,868	2,567	11.8%	142	165	2,698	2,373	0	0	29	29
Texas	7,740	7,283	6.3%	27	27	7,629	7,172	8	8	76	77
Mountain	4,293	4,038	6.3%	375	377	3,873	3,618	11	12	34	31
Arizona	478	519	-7.8%	64	54	412	463	2	NM	0	0
Colorado	1,115	1,036	7.7%	32	32	1,081	1,001	NM	NM	0	0
Idaho	343	336	2.0%	18	NM	292	306	1	1	32	28
Montana	218	232	-6.1%	22	24	195	206	0	0	2	2
Nevada	696	659	5.6%	3	4	687	650	5	5	0	0
New Mexico	711	475	49.6%	20	22	691	453	NM	NM	0	0
Utah	303	315	-3.7%	22	24	280	290	1	1	0	0
Wyoming	429	466	-7.9%	193	217	236	249	0	0	0	0
Pacific Contiguous	6,689	6,595	1.4%	745	736	5,634	5,566	83	86	226	207
California	4,919	4,922	-0.1%	163	165	4,617	4,622	79	82	60	53
Oregon	814	711	14.5%	114	88	651	578	3	3	46	42
Washington	957	963	-0.6%	469	483	366	366	NM	NM	120	112
Pacific Noncontiguous	142	146	-2.3%	14	21	106	107	22	17	0	0
Alaska	20	21	-3.1%	10	11	6	NM	4	4	0	0
Hawaii	122	125	-2.1%	4	11	100	101	18	14	0	0
U.S. Total	39,195	37,367	4.9%	4,682	4,708	31,766	29,937	269	273	2,478	2,449

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	3,208	2,910	10.2%	257	229	2,617	2,344	50	50	283	287
Connecticut	213	211	1.2%	1	1	213	210	0	0	NM	0
Maine	1,455	1,342	8.4%	0	0	1,151	1,034	22	21	283	287
Massachusetts	604	504	19.8%	21	NM	567	470	14	15	1	0
New Hampshire	556	546	1.8%	79	80	466	454	11	11	0	0
Rhode Island	107	96	12.1%	0	0	105	93	3	2	0	0
Vermont	273	212	28.6%	156	129	116	82	0	1	0	0
Middle Atlantic	3,982	3,562	11.8%	18	15	3,582	3,169	166	157	215	221
New Jersey	482	433	11.3%	18	15	386	345	76	70	NM	NM
New York	1,839	1,585	16.0%	0	0	1,735	1,483	50	49	54	53
Pennsylvania	1,661	1,544	7.6%	0	0	1,462	1,340	40	38	159	166
East North Central	9,880	8,147	21.3%	1,126	973	8,263	6,714	53	56	438	404
Illinois	3,930	3,308	18.8%	9	10	3,918	3,297	NM	NM	0	0
Indiana	1,908	1,405	35.8%	102	93	1,780	1,285	5	6	21	21
Michigan	2,276	1,973	15.4%	588	530	1,485	1,261	28	30	173	152
Ohio	764	696	9.7%	NM	NM	673	610	4	4	80	77
Wisconsin	1,003	765	31.2%	420	336	407	260	14	15	163	154
West North Central	22,518	20,207	11.4%	7,115	6,758	15,167	13,223	50	47	186	180
Iowa	6,433	5,908	8.9%	4,083	3,841	2,329	2,045	14	11	6	11
Kansas	5,355	4,766	12.4%	529	350	4,823	4,412	NM	NM	0	0
Minnesota	4,146	3,648	13.7%	852	847	3,103	2,622	15	14	176	165
Missouri	911	489	86.2%	10	10	885	465	15	14	1	1
Nebraska	1,601	1,540	3.9%	71	67	1,527	1,468	3	5	0	0
North Dakota	3,178	2,913	9.1%	1,291	1,339	1,884	1,571	0	0	3	3
South Dakota	894	942	-5.1%	279	303	615	639	0	0	0	0
South Atlantic	8,737	7,256	20.4%	1,211	782	4,680	3,658	89	95	2,757	2,720
Delaware	29	27	7.6%	NM	NM	22	20	2	2	4	4
District of Columbia	15	14	10.7%	0	0	15	14	0	0	0	0
Florida	1,874	1,471	27.4%	491	168	838	756	14	14	530	533
Georgia	1,739	1,604	8.4%	63	58	628	521	NM	NM	1,048	1,024
Maryland	358	327	9.6%	NM	NM	323	288	7	6	25	31
North Carolina	2,148	1,645	30.5%	77	48	1,691	1,255	28	25	352	316
South Carolina	780	679	14.8%	120	114	214	115	0	0	445	450
Virginia	1,261	1,070	17.8%	457	390	413	271	38	47	353	361
West Virginia	534	419	27.5%	0	0	534	419	0	0	0	0
East South Central	1,719	1,613	6.5%	41	26	271	154	NM	NM	1,406	1,432
Alabama	913	865	5.6%	8	0	133	100	0	0	772	765
Kentucky	122	113	8.5%	33	26	1	2	0	0	88	85
Mississippi	394	367	7.5%	0	0	69	4	0	0	325	363
Tennessee	289	269	7.5%	0	0	67	48	NM	NM	221	220
West South Central	30,331	27,254	11.3%	458	507	28,544	25,427	24	18	1,304	1,302
Arkansas	421	373	12.9%	NM	NM	70	35	2	2	349	336
Louisiana	671	679	-1.2%	NM	0	21	21	0	0	649	658
Oklahoma	8,011	6,850	16.9%	384	434	7,545	6,335	0	0	82	82
Texas	21,228	19,353	9.7%	73	73	20,909	19,038	22	17	224	226
Mountain	11,622	10,340	12.4%	1,051	956	10,442	9,265	27	26	101	93
Arizona	1,191	1,125	5.8%	152	106	1,035	1,016	4	NM	0	0
Colorado	2,924	2,846	2.7%	88	87	2,832	2,754	4	NM	1	1
Idaho	1,007	847	18.9%	35	3	874	755	3	3	95	87
Montana	652	616	5.9%	66	65	581	546	0	0	5	5
Nevada	1,854	1,630	13.7%	8	8	1,833	1,611	13	11	1	0
New Mexico	1,930	1,254	53.8%	49	44	1,880	1,209	NM	NM	0	0
Utah	759	793	-4.2%	66	67	691	723	3	3	0	0
Wyoming	1,304	1,228	6.2%	588	576	716	652	0	0	0	0
Pacific Contiguous	18,301	16,456	11.2%	2,167	1,810	15,220	13,780	239	244	675	622
California	13,023	12,332	5.6%	429	445	12,190	11,498	226	232	179	157
Oregon	2,368	1,670	41.7%	296	183	1,923	1,350	8	8	140	130
Washington	2,911	2,454	18.6%	1,443	1,182	1,108	932	5	5	356	336
Pacific Noncontiguous	404	391	3.1%	53	52	295	285	56	54	0	0
Alaska	61	53	15.5%	32	28	17	NM	12	8	0	0
Hawaii	343	339	1.2%	21	24	277	268	44	46	0	0
U.S. Total	110,700	98,137	12.8%	13,498	12,109	89,081	78,020	755	748	7,366	7,261

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	-34	-38	-11.5%	0	0	-34	-38	0	0	0	0
Connecticut	-3	-2	72.1%	0	0	-3	-2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-31	-36	-15.2%	0	0	-31	-36	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	-88	-72	21.4%	-40	-44	-48	-29	0	0	0	0
New Jersey	-12	-12	-1.6%	-12	-12	0	0	0	0	0	0
New York	-27	-31	-12.7%	-27	-31	0	0	0	0	0	0
Pennsylvania	-48	-29	68.9%	0	0	-48	-29	0	0	0	0
East North Central	-47	-39	19.0%	-47	-39	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	-47	-39	19.0%	-47	-39	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	26	-9	-388.9%	26	-9	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	26	-9	-388.9%	26	-9	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	-157	-228	-30.9%	-157	-228	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	-25	-105	-76.2%	-25	-105	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	-22	-58	-61.6%	-22	-58	0	0	0	0	0	0
Virginia	-110	-65	69.5%	-110	-65	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-40	-48	-17.0%	-40	-48	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	-40	-48	-17.0%	-40	-48	0	0	0	0	0	0
West South Central	3	-5	-163.0%	3	-5	0	0	0	0	0	0
Arkansas	10	0	NM	10	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-7	-5	28.1%	-7	-5	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-35	-30	15.2%	-35	-30	0	0	0	0	0	0
Arizona	-11	-7	60.1%	-11	-7	0	0	0	0	0	0
Colorado	-24	-23	1.7%	-24	-23	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-119	-51	131.2%	-119	-51	0	0	0	0	0	0
California	-126	-51	147.3%	-126	-51	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	7	-1	NM	7	-1	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	-490	-521	-6.0%	-408	-455	-82	-66	0	0	0	0

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	-102	-115	-11.3%	0	0	-102	-115	0	0	0	0
Connecticut	-6	-7	-18.3%	0	0	-6	-7	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-96	-108	-10.8%	0	0	-96	-108	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	-272	-259	4.8%	-130	-128	-141	-131	0	0	0	0
New Jersey	-31	-37	-15.9%	-31	-37	0	0	0	0	0	0
New York	-99	-91	8.9%	-99	-91	0	0	0	0	0	0
Pennsylvania	-141	-131	7.7%	0	0	-141	-131	0	0	0	0
East North Central	-150	-127	18.2%	-150	-127	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	-150	-127	18.2%	-150	-127	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	22	-13	-277.7%	22	-13	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	22	-13	-277.7%	22	-13	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	-492	-749	-34.3%	-492	-749	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	-145	-345	-57.9%	-145	-345	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	-83	-199	-58.3%	-83	-199	0	0	0	0	0	0
Virginia	-264	-206	28.2%	-264	-206	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-128	-131	-2.0%	-128	-131	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	-128	-131	-2.0%	-128	-131	0	0	0	0	0	0
West South Central	-11	-18	-41.9%	-11	-18	0	0	0	0	0	0
Arkansas	12	1	NM	12	1	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-23	-19	19.6%	-23	-19	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-125	-109	14.7%	-125	-109	0	0	0	0	0	0
Arizona	-42	-33	26.8%	-42	-33	0	0	0	0	0	0
Colorado	-82	-75	9.3%	-82	-75	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	-95	57	-266.7%	-95	57	0	0	0	0	0	0
California	-121	59	-304.0%	-121	59	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	25	-2	NM	25	-2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,352	-1,464	-7.6%	-1,109	-1,218	-243	-246	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	148	147	0.7%	0	0	129	126	6	7	13	14
Connecticut	39	43	-9.7%	0	0	39	43	0	0	0	0
Maine	35	36	-2.3%	0	0	15	14	6	7	13	14
Massachusetts	71	65	9.2%	0	0	71	65	0	0	0	0
New Hampshire	3	3	0.2%	0	0	3	3	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	178	187	-4.8%	0	0	143	144	36	37	0	6
New Jersey	45	52	-13.5%	0	0	32	33	13	13	0	6
New York	72	65	11.2%	0	0	57	50	15	15	0	0
Pennsylvania	61	70	-13.2%	0	0	54	61	7	10	0	0
East North Central	69	70	-1.8%	1	1	9	6	10	12	49	52
Illinois	23	24	-5.7%	0	0	-2	-2	0	0	24	26
Indiana	20	22	-9.3%	0	0	0	0	2	2	18	20
Michigan	20	20	3.4%	0	0	11	8	8	10	2	1
Ohio	1	0	607.0%	0	0	0	-1	0	0	1	1
Wisconsin	5	4	10.1%	1	2	0	0	0	0	NM	NM
West North Central	41	36	13.6%	19	17	13	11	3	NM	6	5
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	-6.1%	0	0	0	0	0	0	0	0
Minnesota	37	32	16.3%	15	14	13	11	3	NM	5	5
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	4	-4.0%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	400	347	15.2%	0	0	210	163	13	15	176	169
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	265	1.4%	0	0	131	126	0	0	138	139
Georgia	9	8	13.4%	0	0	0	0	0	0	9	8
Maryland	27	20	35.8%	0	0	27	20	0	0	0	0
North Carolina	51	38	35.5%	0	0	23	17	0	0	28	20
South Carolina	2	2	-31.3%	0	0	1	1	0	0	1	2
Virginia	43	15	186.7%	0	0	30	0	13	15	0	0
West Virginia	-1	-1	-4.0%	0	0	-1	-1	0	0	0	0
East South Central	7	8	-10.4%	6	6	0	0	0	0	1	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	6	6	12.2%	6	6	0	0	0	0	0	0
Mississippi	0	0	-100.0%	0	0	0	0	0	0	0	0
Tennessee	1	2	-57.4%	0	0	0	0	0	0	1	2
West South Central	90	93	-2.9%	0	0	10	11	0	0	80	82
Arkansas	1	0	35.0%	0	0	0	0	0	0	1	0
Louisiana	55	47	17.2%	0	0	0	0	0	0	55	47
Oklahoma	4	3	44.2%	0	0	4	4	0	0	1	-1
Texas	30	42	-29.2%	0	0	7	7	0	0	23	35
Mountain	63	63	-0.1%	2	2	30	31	0	0	31	30
Arizona	0	0	-14.9%	0	0	0	0	0	0	0	0
Colorado	5	5	-1.2%	0	0	1	1	0	0	4	4
Idaho	7	7	-5.0%	0	0	0	0	0	0	7	7
Montana	29	30	-2.8%	0	0	29	30	0	0	0	0
Nevada	2	3	-34.1%	2	3	0	0	0	0	0	0
New Mexico	0	0	9.4%	0	0	0	0	0	0	0	0
Utah	14	13	3.4%	0	0	0	0	0	0	14	13
Wyoming	7	6	28.7%	0	0	0	0	0	0	7	6
Pacific Contiguous	81	79	3.0%	0	0	25	26	0	0	57	54
California	73	70	4.5%	0	0	16	16	0	0	57	54
Oregon	3	4	-10.1%	0	0	3	4	0	0	0	0
Washington	5	6	-6.5%	0	0	5	6	0	0	0	0
Pacific Noncontiguous	33	22	49.3%	16	9	0	0	17	13	0	0
Alaska	0	0	-18.3%	0	0	0	0	0	0	0	0
Hawaii	33	22	48.5%	16	9	0	0	17	13	0	0
U.S. Total	1,110	1,052	5.5%	44	35	569	517	85	87	413	413

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	439	433	1.5%	0	0	381	376	20	19	37	38
Connecticut	121	125	-3.0%	0	0	121	125	0	0	0	0
Maine	100	99	0.3%	0	0	42	42	20	19	37	38
Massachusetts	208	198	5.0%	0	0	208	198	0	0	0	0
New Hampshire	11	11	-1.3%	0	0	11	11	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	549	562	-2.2%	0	0	437	442	106	103	6	17
New Jersey	140	151	-7.5%	0	0	96	96	38	37	6	17
New York	203	196	3.9%	0	0	158	151	45	44	0	0
Pennsylvania	206	215	-4.0%	0	0	183	194	23	21	0	0
East North Central	219	191	15.0%	4	3	30	18	32	34	153	135
Illinois	67	59	14.4%	0	0	-4	-7	0	0	71	65
Indiana	67	61	10.9%	0	0	0	0	5	5	62	56
Michigan	66	58	13.5%	0	0	34	26	27	29	5	4
Ohio	4	0	NM	-1	-1	0	-2	0	0	4	3
Wisconsin	15	13	16.6%	4	4	0	0	0	0	11	8
West North Central	109	104	4.9%	47	46	36	36	8	8	17	13
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	1	1	40.9%	0	0	0	0	0	0	1	1
Minnesota	96	91	6.1%	36	34	36	36	8	8	16	12
Missouri	1	1	-4.0%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	11	11	-6.1%	11	11	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,142	1,053	8.5%	0	0	625	554	33	42	484	456
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	771	764	0.9%	0	0	393	404	0	0	378	360
Georgia	27	25	6.0%	0	0	0	0	0	0	27	25
Maryland	79	70	13.7%	0	0	79	70	0	0	0	0
North Carolina	148	117	26.6%	0	0	75	56	0	0	73	61
South Carolina	7	10	-30.4%	0	0	1	2	0	0	6	9
Virginia	113	70	61.7%	0	0	80	27	33	42	0	0
West Virginia	-3	-3	-1.8%	0	0	-3	-3	0	0	0	0
East South Central	15	16	-3.9%	12	10	0	0	0	0	3	6
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	12	10	29.4%	12	10	0	0	0	0	0	0
Mississippi	0	1	-100.0%	0	0	0	0	0	0	0	1
Tennessee	3	6	-46.2%	0	0	0	0	0	0	3	6
West South Central	262	284	-7.6%	0	0	38	30	0	0	224	254
Arkansas	NM	1	NM	0	0	0	0	0	0	NM	1
Louisiana	144	139	3.3%	0	0	0	0	0	0	144	139
Oklahoma	14	6	118.7%	0	0	13	9	0	0	1	-3
Texas	103	137	-24.7%	0	0	25	20	0	0	78	117
Mountain	186	178	4.3%	7	8	84	87	0	0	94	83
Arizona	0	0	-9.3%	0	0	0	0	0	0	0	0
Colorado	15	15	5.7%	0	0	5	4	0	0	11	10
Idaho	18	16	17.5%	0	0	0	0	0	0	18	16
Montana	80	83	-4.0%	0	0	80	83	0	0	0	0
Nevada	7	8	-15.0%	7	8	0	0	0	0	0	0
New Mexico	0	0	1.2%	0	0	0	0	0	0	0	0
Utah	44	39	11.9%	0	0	0	0	0	0	44	39
Wyoming	21	17	23.8%	0	0	0	0	0	0	21	17
Pacific Contiguous	214	224	-4.7%	-1	-2	70	66	0	0	145	160
California	189	202	-6.6%	-1	-2	45	44	0	0	145	160
Oregon	10	10	-1.0%	0	0	10	10	0	0	0	0
Washington	15	12	23.0%	0	0	15	12	0	0	0	0
Pacific Noncontiguous	89	84	5.6%	46	37	0	2	42	44	0	0
Alaska	-1	-1	-29.8%	-1	-1	0	0	0	0	0	0
Hawaii	89	85	5.3%	47	38	0	2	42	44	0	0
U.S. Total	3,224	3,127	3.1%	116	103	1,701	1,610	243	250	1,164	1,163

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	368	335	9.7%	23	23	340	309	4	4	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	248	226	9.5%	0	0	248	226	0	0	0	0
Massachusetts	24	23	4.1%	6	NM	15	14	3	3	0	0
New Hampshire	43	41	4.7%	0	0	43	41	0	0	0	0
Rhode Island	17	16	6.7%	0	0	16	15	1	1	0	0
Vermont	34	27	25.5%	17	17	17	11	0	0	0	0
Middle Atlantic	730	740	-1.4%	0	0	729	740	NM	0	0	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	382	389	-1.8%	0	0	381	388	NM	0	0	0
Pennsylvania	346	350	-1.0%	0	0	346	350	0	0	0	0
East North Central	2,680	2,500	7.2%	285	292	2,387	2,202	NM	NM	7	NM
Illinois	1,237	1,184	4.6%	NM	NM	1,236	1,182	NM	NM	0	0
Indiana	569	467	21.8%	0	0	569	467	0	0	0	0
Michigan	507	539	-6.1%	187	201	319	339	0	0	0	0
Ohio	181	169	7.4%	NM	NM	173	163	0	0	NM	NM
Wisconsin	186	142	31.1%	95	89	90	52	0	0	1	1
West North Central	7,324	7,410	-1.2%	2,333	2,554	4,987	4,851	NM	NM	0	0
Iowa	2,115	2,238	-5.5%	1,363	1,460	752	778	0	0	0	0
Kansas	1,956	1,885	3.8%	199	200	1,756	1,684	NM	NM	0	0
Minnesota	1,125	1,137	-1.1%	248	282	874	852	NM	NM	0	0
Missouri	308	176	74.9%	0	0	308	176	0	0	0	0
Nebraska	514	538	-4.5%	17	19	497	519	0	0	0	0
North Dakota	1,013	1,088	-6.8%	415	482	599	605	0	0	0	0
South Dakota	293	348	-15.7%	92	111	202	237	0	0	0	0
South Atlantic	294	279	5.4%	0	0	293	278	1	1	0	0
Delaware	1	1	-1.0%	0	0	0	0	1	1	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	51	53	-4.8%	0	0	51	53	0	0	0	0
North Carolina	67	53	24.5%	0	0	67	53	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	176	171	2.7%	0	0	176	171	0	0	0	0
East South Central	NM	NM	NM	0	0	NM	NM	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	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	10,209	9,518	7.3%	162	190	10,042	9,323	5	5	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,833	2,535	11.8%	136	163	2,697	2,371	0	0	0	0
Texas	7,377	6,983	5.6%	26	27	7,345	6,951	5	5	0	0
Mountain	2,711	2,455	10.4%	264	274	2,447	2,180	NM	NM	0	0
Arizona	59	62	-4.1%	0	0	59	62	0	0	0	0
Colorado	1,019	940	8.4%	32	32	987	907	NM	NM	0	0
Idaho	248	253	-2.0%	17	0	231	253	0	0	0	0
Montana	213	230	-7.5%	22	24	191	206	0	0	0	0
Nevada	36	38	-3.6%	0	0	36	38	0	0	0	0
New Mexico	611	374	63.2%	0	0	611	374	NM	NM	0	0
Utah	96	92	4.0%	0	0	96	92	0	0	0	0
Wyoming	429	466	-7.9%	193	217	236	249	0	0	0	0
Pacific Contiguous	2,873	2,809	2.3%	570	568	2,303	2,241	1	1	0	0
California	1,427	1,429	-0.1%	38	49	1,389	1,379	1	1	0	0
Oregon	667	588	13.3%	108	82	558	506	0	0	0	0
Washington	780	792	-1.6%	424	437	355	355	0	0	0	0
Pacific Noncontiguous	82	84	-2.9%	10	11	72	74	0	0	0	0
Alaska	16	17	-4.7%	10	11	6	NM	0	0	0	0
Hawaii	66	67	-2.4%	0	0	66	67	0	0	0	0
U.S. Total	27,275	26,133	4.4%	3,647	3,910	23,603	22,199	17	17	9	NM

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	1,088	879	23.9%	69	58	1,009	812	9	9	1	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	726	602	20.6%	0	0	726	602	0	0	0	0
Massachusetts	69	59	16.9%	17	NM	44	37	7	7	1	0
New Hampshire	131	104	26.1%	0	0	131	104	0	0	0	0
Rhode Island	50	41	20.1%	0	0	47	39	3	2	0	0
Vermont	109	69	57.4%	52	43	57	26	0	0	0	0
Middle Atlantic	2,282	1,910	19.5%	0	0	2,281	1,910	NM	0	1	1
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	1,230	1,011	21.7%	0	0	1,228	1,011	NM	0	1	1
Pennsylvania	1,046	894	17.0%	0	0	1,046	894	0	0	0	0
East North Central	8,240	6,590	25.0%	863	752	7,352	5,819	NM	NM	23	NM
Illinois	3,801	3,172	19.8%	NM	NM	3,796	3,168	NM	NM	0	0
Indiana	1,723	1,235	39.5%	0	0	1,723	1,235	0	0	0	0
Michigan	1,598	1,339	19.3%	568	527	1,030	813	0	0	0	0
Ohio	558	488	14.4%	NM	NM	533	472	1	1	20	NM
Wisconsin	561	355	57.7%	288	221	270	132	0	0	2	2
West North Central	21,621	19,489	10.9%	6,973	6,624	14,634	12,853	13	NM	0	0
Iowa	6,374	5,867	8.6%	4,075	3,834	2,298	2,031	1	1	0	0
Kansas	5,339	4,751	12.4%	529	350	4,807	4,397	NM	NM	0	0
Minnesota	3,408	3,060	11.4%	749	749	2,651	2,303	NM	NM	0	0
Missouri	857	445	92.7%	0	0	857	445	0	0	0	0
Nebraska	1,574	1,514	4.0%	51	48	1,523	1,466	0	0	0	0
North Dakota	3,175	2,911	9.1%	1,291	1,339	1,884	1,571	0	0	0	0
South Dakota	894	942	-5.1%	279	303	615	639	0	0	0	0
South Atlantic	871	680	28.0%	0	0	869	679	2	2	0	0
Delaware	2	2	-6.2%	0	0	0	0	2	2	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	154	138	11.3%	0	0	154	138	0	0	0	0
North Carolina	181	122	49.0%	0	0	181	122	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	534	419	27.5%	0	0	534	419	0	0	0	0
East South Central	12	NM	NM	0	0	12	NM	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	12	NM	NM	0	0	12	NM	0	0	0	0
West South Central	28,142	25,419	10.7%	445	504	27,684	24,907	14	8	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	7,914	6,762	17.0%	372	431	7,541	6,331	0	0	0	0
Texas	20,229	18,657	8.4%	72	73	20,143	18,576	14	8	0	0
Mountain	7,534	6,732	11.9%	773	728	6,759	6,000	NM	NM	1	1
Arizona	151	170	-11.3%	0	0	151	170	0	0	0	0
Colorado	2,681	2,636	1.7%	87	87	2,593	2,547	NM	NM	1	1
Idaho	751	649	15.7%	32	0	719	649	0	0	0	0
Montana	640	611	4.7%	66	65	574	546	0	0	0	0
Nevada	95	104	-8.6%	0	0	95	104	0	0	0	0
New Mexico	1,686	1,045	61.4%	0	0	1,685	1,044	NM	NM	0	0
Utah	228	289	-21.2%	0	0	228	289	0	0	0	0
Wyoming	1,304	1,228	6.2%	588	576	716	652	0	0	0	0
Pacific Contiguous	8,025	7,179	11.8%	1,681	1,346	6,341	5,830	2	2	1	1
California	3,688	3,898	-5.4%	93	130	3,593	3,766	2	2	1	1
Oregon	1,950	1,326	47.1%	279	166	1,671	1,160	0	0	0	0
Washington	2,386	1,956	22.0%	1,309	1,051	1,077	905	0	0	0	0
Pacific Noncontiguous	228	227	0.6%	32	28	197	199	0	0	0	0
Alaska	49	45	10.4%	32	28	17	NM	0	0	0	0
Hawaii	179	183	-1.8%	0	0	179	183	0	0	0	0
U.S. Total	78,044	69,110	12.9%	10,836	10,041	67,139	59,012	44	39	26	18

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	604	636	-5.1%	55	54	445	470	14	15	91	97
Connecticut	63	69	-9.4%	0	0	63	69	0	0	0	0
Maine	237	258	-8.0%	0	0	140	153	7	8	91	97
Massachusetts	101	96	5.5%	0	0	99	93	2	2	0	0
New Hampshire	142	155	-8.4%	25	28	112	122	5	4	0	0
Rhode Island	18	18	0.5%	0	0	18	18	0	0	0	0
Vermont	43	41	6.4%	29	25	NM	15	0	0	0	0
Middle Atlantic	471	477	-1.3%	0	0	357	358	44	46	70	73
New Jersey	82	81	1.3%	0	0	67	66	15	15	0	0
New York	188	180	4.8%	0	0	155	147	16	16	17	17
Pennsylvania	201	216	-7.3%	0	0	136	146	12	15	53	56
East North Central	499	504	-0.8%	65	70	274	283	16	18	144	132
Illinois	40	42	-5.7%	2	2	38	40	0	0	0	0
Indiana	38	37	3.8%	24	24	4	4	2	2	7	7
Michigan	215	219	-1.9%	0	0	148	156	8	11	58	53
Ohio	61	64	-4.7%	NM	NM	39	40	1	1	22	23
Wisconsin	145	141	2.8%	39	44	44	42	5	5	56	50
West North Central	230	214	7.4%	49	48	94	92	11	9	76	66
Iowa	19	13	51.0%	NM	NM	11	5	4	3	2	3
Kansas	5	5	4.5%	0	0	5	5	0	0	0	0
Minnesota	185	178	4.0%	37	36	74	79	2	NM	73	61
Missouri	12	9	24.9%	3	4	4	4	4	1	0	0
Nebraska	8	8	-4.5%	7	6	0	0	1	2	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,741	1,676	3.9%	230	181	570	555	22	24	918	916
Delaware	6	6	2.6%	0	0	4	4	0	0	NM	NM
District of Columbia	6	5	16.0%	0	0	6	5	0	0	0	0
Florida	443	442	0.3%	45	7	214	248	5	5	179	183
Georgia	433	409	6.1%	0	0	77	60	0	0	356	348
Maryland	44	39	12.5%	0	0	35	28	2	NM	7	10
North Carolina	218	215	1.6%	0	0	97	101	NM	NM	120	113
South Carolina	231	225	2.3%	52	43	36	38	0	0	143	145
Virginia	360	336	7.2%	133	132	101	72	15	17	111	116
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	491	525	-6.3%	8	8	32	32	0	0	452	485
Alabama	277	280	-0.9%	0	0	23	23	0	0	254	257
Kentucky	37	37	2.1%	8	8	0	1	0	0	29	28
Mississippi	96	125	-22.9%	0	0	NM	NM	0	0	95	124
Tennessee	80	83	-3.6%	0	0	7	7	0	0	73	77
West South Central	524	514	1.8%	0	0	64	78	4	3	456	434
Arkansas	131	115	13.4%	0	0	10	10	1	1	120	105
Louisiana	239	230	3.8%	0	0	7	7	0	0	232	224
Oklahoma	30	30	-0.5%	0	0	NM	NM	0	0	29	29
Texas	124	139	-10.6%	0	0	45	60	3	2	76	77
Mountain	92	90	2.1%	NM	NM	55	57	2	2	33	30
Arizona	19	20	-7.1%	0	0	19	20	0	0	0	0
Colorado	12	15	-20.6%	0	0	12	15	0	0	0	0
Idaho	45	39	15.2%	NM	NM	12	9	1	1	32	28
Montana	2	2	-2.4%	0	0	0	0	0	0	2	2
Nevada	5	5	0.5%	0	0	5	5	0	0	0	0
New Mexico	2	2	1.4%	0	0	2	2	0	0	0	0
Utah	7	6	7.4%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	761	763	-0.2%	62	69	406	413	72	74	223	206
California	494	507	-2.4%	12	17	359	367	67	70	57	52
Oregon	90	85	5.5%	5	5	36	36	3	3	46	42
Washington	177	171	3.7%	44	47	11	11	NM	NM	120	112
Pacific Noncontiguous	24	24	-1.1%	2	7	0	0	22	17	0	0
Alaska	4	4	4.0%	0	0	0	0	4	4	0	0
Hawaii	20	20	-2.1%	2	7	0	0	18	14	0	0
U.S. Total	5,436	5,422	0.3%	471	437	2,296	2,337	206	208	2,463	2,440

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

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

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	1,822	1,837	-0.8%	173	157	1,327	1,353	40	40	283	287
Connecticut	192	198	-2.8%	0	0	192	198	0	0	0	0
Maine	726	738	-1.6%	0	0	422	429	22	21	283	287
Massachusetts	293	287	2.4%	0	0	287	280	6	7	0	0
New Hampshire	425	442	-3.9%	79	80	335	351	11	11	0	0
Rhode Island	50	51	-2.2%	0	0	50	51	0	0	0	0
Vermont	135	121	11.6%	93	77	41	44	0	1	0	0
Middle Atlantic	1,391	1,418	-1.9%	0	0	1,049	1,072	132	128	210	217
New Jersey	242	242	0.0%	0	0	197	198	45	44	0	0
New York	550	540	2.0%	0	0	449	439	48	48	53	53
Pennsylvania	598	636	-5.9%	0	0	402	435	39	37	157	164
East North Central	1,491	1,459	2.2%	210	194	817	824	49	52	415	388
Illinois	117	126	-6.9%	5	6	112	120	0	0	0	0
Indiana	110	110	0.3%	72	71	12	12	5	5	21	21
Michigan	652	630	3.6%	0	0	450	448	28	30	173	152
Ohio	177	187	-4.8%	NM	NM	115	119	2	2	60	64
Wisconsin	434	407	6.6%	132	115	127	125	14	15	161	151
West North Central	618	612	1.0%	137	132	259	267	37	34	186	180
Iowa	56	40	37.8%	6	6	31	14	13	10	6	11
Kansas	15	14	0.9%	0	0	15	14	0	0	0	0
Minnesota	486	495	-1.9%	102	97	201	227	7	6	176	165
Missouri	37	36	2.0%	10	10	12	12	14	13	1	1
Nebraska	22	24	-6.1%	20	19	0	0	3	5	0	0
North Dakota	3	3	30.8%	0	0	0	0	0	0	3	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	5,220	4,973	5.0%	576	501	1,827	1,683	60	68	2,757	2,720
Delaware	16	16	0.0%	0	0	13	13	0	0	4	4
District of Columbia	15	14	10.7%	0	0	15	14	0	0	0	0
Florida	1,351	1,310	3.2%	58	21	751	743	13	13	530	533
Georgia	1,294	1,190	8.8%	0	0	247	165	0	0	1,048	1,024
Maryland	134	129	3.9%	0	0	103	93	6	5	25	31
North Carolina	658	630	4.4%	0	0	303	311	3	3	352	316
South Carolina	666	671	-0.8%	120	114	101	107	0	0	445	450
Virginia	1,084	1,012	7.1%	399	366	294	237	38	47	353	361
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	1,520	1,548	-1.8%	23	23	93	94	0	0	1,405	1,432
Alabama	840	833	0.8%	0	0	68	68	0	0	772	765
Kentucky	112	110	2.2%	23	23	1	2	0	0	88	85
Mississippi	327	365	-10.4%	0	0	3	NM	0	0	325	363
Tennessee	241	240	0.3%	0	0	21	21	0	0	220	220
West South Central	1,528	1,531	-0.2%	0	0	213	219	10	10	1,304	1,302
Arkansas	381	368	3.8%	0	0	30	29	2	2	349	336
Louisiana	670	679	-1.2%	0	0	21	21	0	0	649	658
Oklahoma	86	85	0.4%	0	0	4	4	0	0	82	82
Texas	390	399	-2.2%	0	0	158	165	8	8	224	226
Mountain	273	268	1.9%	3	3	164	167	6	6	100	92
Arizona	55	58	-4.9%	0	0	55	58	0	0	0	0
Colorado	38	42	-10.4%	0	0	38	42	0	0	0	0
Idaho	136	123	10.2%	3	3	35	31	3	3	95	87
Montana	5	5	-3.5%	0	0	0	0	0	0	5	5
Nevada	15	15	0.0%	0	0	15	15	0	0	0	0
New Mexico	5	5	-0.7%	0	0	5	5	0	0	0	0
Utah	19	19	-0.5%	0	0	16	16	3	3	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,266	2,213	2.4%	188	189	1,202	1,184	210	220	666	619
California	1,467	1,459	0.5%	39	43	1,062	1,054	197	208	170	154
Oregon	274	255	7.5%	16	16	110	102	8	8	140	130
Washington	525	499	5.2%	134	131	30	27	5	5	356	336
Pacific Noncontiguous	69	68	1.2%	13	14	0	0	56	54	0	0
Alaska	12	8	44.2%	0	0	0	0	12	8	0	0
Hawaii	57	60	-4.6%	13	14	0	0	44	46	0	0
U.S. Total	16,196	15,926	1.7%	1,323	1,212	6,951	6,864	598	612	7,325	7,238

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	354	342	3.4%	22	24	332	318	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	6	6	1.5%	0	0	6	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	308	293	5.0%	0	0	308	293	0	0	0	0
New Mexico	1	2	-4.5%	0	0	1	2	0	0	0	0
Utah	39	41	-6.7%	22	24	16	18	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,010	1,016	-0.6%	70	56	940	960	0	0	0	0
California	994	998	-0.4%	70	56	924	942	0	0	0	0
Oregon	16	18	-11.9%	0	0	16	18	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	21	22	-1.7%	0	0	21	22	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	21	22	-1.7%	0	0	21	22	0	0	0	0
U.S. Total	1,385	1,380	0.4%	92	80	1,293	1,300	0	0	0	0

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

Table 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1,042	982	6.1%	66	67	976	915	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	17	17	0.3%	0	0	17	17	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	907	844	7.5%	0	0	907	844	0	0	0	0
New Mexico	3	4	-33.4%	0	0	3	4	0	0	0	0
Utah	115	117	-1.4%	66	67	49	50	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,956	2,976	-0.7%	188	189	2,768	2,787	0	0	0	0
California	2,909	2,927	-0.6%	188	188	2,721	2,739	0	0	0	0
Oregon	47	49	-4.1%	0	1	47	48	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	63	63	-0.3%	0	0	63	63	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	63	63	-0.3%	0	0	63	63	0	0	0	0
U.S. Total	4,061	4,021	1.0%	255	256	3,806	3,765	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	352	281	25.2%	127	96	225	185	6	7	120	89	NM	NM	NM	NM	119	102	NM	9	NM	0	11	9	94	74
Connecticut	52	38	34.2%	10	5	42	34	0	0	10	4	16	13	0	0	16	13	NM	2	NM	0	2	2	23	19
Maine	NM	4	NM	NM	NM	5	3	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	252	205	22.7%	101	78	151	127	NM	NM	99	76	NM	NM	NM	NM	91	80	8	7	0	0	8	7	52	41
New Hampshire	9	7	24.3%	0	0	9	7	0	0	0	0	3	2	0	0	3	2	1	0	0	0	1	0	6	5
Rhode Island	NM	6	NM	NM	NM	8	4	0	0	NM	NM	4	2	0	0	4	2	0	0	0	0	0	0	4	2
Vermont	22	20	14.5%	12	11	11	9	4	NM	7	6	4	3	0	0	4	3	NM	0	0	0	NM	0	7	6
Middle Atlantic	447	383	16.8%	126	117	321	266	7	8	104	93	159	136	14	15	145	121	NM	NM	NM	NM	17	16	158	129
New Jersey	260	234	11.1%	94	93	166	141	7	8	74	71	97	89	13	13	85	76	NM	NM	NM	NM	11	9	70	56
New York	147	111	32.2%	25	17	122	95	0	0	25	16	NM	NM	NM	NM	50	33	1	1	0	0	1	1	71	60
Pennsylvania	40	37	6.7%	7	7	33	30	0	0	6	6	NM	NM	NM	NM	11	12	NM	NM	NM	NM	4	6	17	13
East North Central	105	77	35.4%	63	48	41	29	24	13	39	35	NM	NM	NM	NM	25	18	2	2	0	0	2	2	14	10
Illinois	13	9	46.3%	5	4	7	4	0	0	5	4	NM	2	NM	0	5	2	0	NM	0	0	0	NM	2	2
Indiana	38	32	19.9%	30	29	8	2	13	10	18	19	5	1	0	0	5	1	0	0	0	0	0	0	2	1
Michigan	20	9	111.9%	12	NM	7	7	10	NM	NM	0	4	5	0	0	4	5	NM	0	0	0	NM	0	4	3
Ohio	24	22	12.8%	12	11	13	11	NM	NM	10	10	NM	NM	NM	NM	9	8	NM	1	0	0	NM	1	3	2
Wisconsin	NM	6	NM	NM	NM	6	5	0	0	NM	NM	2	2	0	0	2	2	1	1	0	0	1	1	3	2
West North Central	162	81	99.8%	124	51	38	31	NM	NM	122	49	19	16	0	0	19	16	1	1	0	0	1	1	17	14
Iowa	NM	8	NM	NM	NM	10	7	NM	NM	NM	0	6	4	0	0	6	4	0	0	0	0	0	0	3	2
Kansas	NM	1	NM	NM	0	2	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Minnesota	120	49	144.4%	113	44	7	5	NM	NM	113	44	2	2	0	0	2	2	1	0	0	0	1	0	3	2
Missouri	26	21	21.0%	7	4	19	17	0	0	7	4	10	9	0	0	9	9	0	0	0	0	0	0	9	8
Nebraska	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	1.3%	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	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,298	904	43.7%	1,107	753	191	151	276	122	820	619	68	62	11	12	57	50	NM	20	NM	0	26	20	109	80
Delaware	14	12	10.1%	5	NM	9	8	NM	NM	4	NM	NM	NM	NM	NM	3	2	0	0	0	0	0	0	6	5
District of Columbia	6	4	37.3%	0	0	6	4	0	0	0	0	4	2	0	0	4	2	0	0	0	0	0	0	2	2
Florida	265	90	195.2%	230	66	35	24	194	59	36	6	NM	NM	NM	NM	10	8	NM	1	NM	0	1	1	24	15
Georgia	NM	203	NM	181	184	NM	19	27	26	154	158	NM	NM	NM	NM	NM	3	NM	NM	0	0	NM	NM	NM	1
Maryland	105	90	16.1%	31	28	74	62	NM	NM	29	27	NM	NM	NM	NM	20	18	3	3	0	0	3	3	51	41
North Carolina	555	457	21.2%	537	440	17	18	31	25	496	404	20	23	10	11	10	12	1	1	0	0	1	1	7	6
South Carolina	68	14	402.6%	50	NM	18	10	0	0	50	NM	5	2	0	0	5	2	2	1	0	0	2	1	12	7
Virginia	81	33	146.7%	74	27	7	5	24	11	50	16	3	2	0	0	3	2	0	0	0	0	0	0	5	3
West Virginia	1	1	23.1%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
East South Central	94	40	133.0%	81	29	12	11	8	2	73	27	NM	NM	NM	NM	8	8	NM	0	NM	0	1	0	4	3
Alabama	NM	16	NM	32	15	NM	NM	NM	0	28	15	1	0	0	0	1	0	0	0	0	0	0	0	NM	NM
Kentucky	7	4	92.5%	4	2	2	2	4	2	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Mississippi	32	1	NM	30	NM	2	1	0	0	30	NM	NM	1	0	0	NM	1	NM	NM	0	0	NM	NM	0	0
Tennessee	22	19	15.5%	15	12	8	7	0	0	14	12	NM	NM	NM	NM	5	5	NM	0	NM	0	NM	0	2	2
West South Central	360	240	49.9%	264	165	96	75	7	NM	258	163	25	20	0	0	25	19	NM	0	0	0	NM	0	70	56
Arkansas	20	3	511.8%	19	3	1	1	NM	NM	19	2	1	0	0	0	1	0	0	0	0	0	0	0	1	0
Louisiana	NM	18	NM	NM	0	20	18	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	18	17
Oklahoma	7	2	182.3%	6	NM	1	0	6	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Texas	313	217	44.6%	240	161	74	56	NM	0	239	161	23	18	0	0	23	18	0	0	0	0	0	0	51	38
Mountain	1,398	1,334	4.8%	1,074	1,062	324	272	88	79	978	973	94	88	8	9	86	79	16	15	0	0	16	15	222	178
Arizona	527	509	3.4%	352	358	175	151	64	54	286	302	44	NM	2	NM	42	41	13	12	0	0	13	12	120	99
Colorado	136	125	9.1%	84	80	52	44	NM	0	82	79	NM	NM	NM	NM	19	18	0	0	0	0	0	0	33	26
Idaho	46	40	16.9%	44	39	2	1	0	0	44	39	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Montana	NM	1	NM	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	371	347	6.8%	332	312	39	35	3	4	323	302	14	14	5	5	9	9	3	2	0	0	2	2	28	25
New Mexico	119	114	4.0%	97	98	22	17	20	22	77	76	8	6	0	0	8	6	0	0	0	0	0	0	14	10
Utah	194	197	-1.5%	162	175	32	22	0	0	162	175	6	5	0	0	6	5	1	1	0	0	1	1	25	16
Wyoming	0	0	40.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	2,938	2,686	9.4%	1,858	1,800	1,080	886	44	43	1,800	1,745	272	199	11	11	261	188	NM	NM	NM	NM	166	146	653	551
California	2,871	2,646	8.5%	1,817	1,781	1,054	865	44	43	1,759	1,726	263	192	11	11	252	181	NM	NM	NM	NM	165	145	636	539
Oregon	57	32	77.2%	41	19	15	13	NM	NM	41	19	7	6	0	0	7	6	1	1	0	0	1	1	8	6
Washington	11	8	29.2%	0	0	11	8	0	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	9	7
Pacific Noncontiguous	102	97	5.0%	15	16	86	81	2	4	13	11	33	29	0	0	33	29	0	0	0	0	0	0	53	52
Alaska	0	0	36.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	101	97	5.0%	15	16	86	81	2	4	13	11	33	29	0	0	33	29	0	0	0	0	0	0	53	52
U.S. Total	7,256	6,123	18.5%	4,842	4,136	2,414	1,987	464	281	4,325	3,804	825	679	46	48	779	630	247	NM	6	NM	241	209	1,395	1,147

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.
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 March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	869	624	39.3%	297	195	572	430	15	14	281	179	325	242	NM	NM	324	241	28	22	NM	0	28	22	220	167
Connecticut	115	88	31.5%	17	10	98	78	1	1	17	9	39	31	0	0	39	31	5	4	NM	0	5	4	54	43
Maine	14	10	40.8%	NM	NM	11	8	0	0	NM	NM	4	3	0	0	4	3	0	0	0	0	0	0	7	5
Massachusetts	638	454	40.7%	241	158	397	295	4	NM	236	154	257	191	NM	NM	256	190	21	16	0	0	21	16	120	90
New Hampshire	22	17	28.6%	0	0	22	17	0	0	0	0	6	5	0	0	6	5	1	1	0	0	1	1	14	11
Rhode Island	26	13	97.4%	7	NM	18	10	0	0	7	NM	10	5	0	0	10	5	0	0	0	0	0	0	9	5
Vermont	54	43	26.3%	29	22	26	21	11	10	18	12	9	7	0	0	9	7	0	0	0	0	0	0	16	13
Middle Atlantic	1,071	853	25.5%	309	234	762	619	18	15	253	187	385	319	34	29	351	290	47	41	4	NM	43	38	367	291
New Jersey	632	517	22.4%	233	186	399	331	18	15	182	142	240	210	31	26	209	183	30	23	NM	NM	28	21	163	126
New York	340	252	35.2%	58	35	282	217	0	0	57	34	115	79	NM	NM	114	78	4	3	0	0	4	3	165	136
Pennsylvania	98	85	15.2%	17	14	81	71	0	0	14	11	31	30	NM	NM	29	28	14	15	NM	NM	12	14	39	29
East North Central	239	162	47.1%	149	98	90	64	53	27	94	70	56	40	NM	NM	55	39	5	4	0	0	5	4	30	21
Illinois	27	19	45.6%	11	10	16	9	0	0	10	9	12	5	NM	0	11	5	0	0	0	0	0	0	6	4
Indiana	91	65	39.3%	75	60	16	5	30	22	45	38	10	2	0	0	10	2	1	0	0	0	1	0	5	3
Michigan	41	19	111.6%	26	4	15	16	20	4	5	0	8	10	0	0	8	10	0	0	0	0	0	0	7	6
Ohio	57	46	22.8%	28	22	29	24	NM	NM	25	20	22	19	NM	NM	21	18	2	1	0	0	1	1	6	5
Wisconsin	23	13	80.7%	9	NM	13	10	0	0	9	NM	5	3	0	0	5	3	3	2	0	0	3	2	6	4
West North Central	368	177	107.2%	279	106	88	72	5	NM	274	103	45	37	0	0	44	37	3	2	0	0	3	2	41	33
Iowa	26	17	55.0%	NM	NM	23	16	NM	NM	NM	0	14	10	0	0	14	10	1	1	0	0	1	1	7	5
Kansas	6	4	61.0%	NM	0	4	3	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Minnesota	266	102	159.8%	252	93	14	10	NM	NM	251	92	5	4	0	0	5	4	2	1	0	0	2	1	7	5
Missouri	63	51	25.0%	18	9	46	42	1	0	17	8	23	22	0	0	23	22	0	0	0	0	0	0	23	20
Nebraska	6	3	74.2%	4	2	2	1	0	0	4	2	1	0	0	0	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	0.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	8.1%	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	3,092	1,958	57.9%	2,633	1,603	459	355	622	281	1,983	1,297	165	148	28	25	138	123	65	50	NM	0	64	50	257	182
Delaware	33	27	21.6%	11	9	22	18	NM	NM	10	8	7	6	NM	NM	7	6	1	1	0	0	1	1	14	11
District of Columbia	14	10	35.5%	0	0	14	10	0	0	0	0	8	6	0	0	8	6	0	0	0	0	0	0	6	5
Florida	598	221	170.4%	509	160	88	61	420	147	87	13	26	23	NM	NM	25	22	3	2	NM	0	2	2	61	37
Georgia	503	461	9.3%	445	414	59	46	63	58	381	355	8	7	NM	NM	7	7	48	36	0	0	48	36	4	3
Maryland	235	197	19.4%	69	59	166	138	NM	NM	66	56	48	45	NM	NM	47	43	7	7	0	0	7	7	112	88
North Carolina	1,352	939	44.0%	1,309	893	43	45	77	48	1,207	823	49	52	25	22	24	30	2	2	0	0	2	2	17	14
South Carolina	160	30	439.2%	113	8	47	22	0	0	113	8	12	5	0	0	12	5	4	2	0	0	4	2	31	15
Virginia	195	72	172.2%	177	59	18	13	58	25	119	34	6	5	0	0	6	5	0	0	0	0	0	0	11	8
West Virginia	2	2	25.4%	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	217	88	147.5%	187	61	30	26	18	3	166	57	21	20	NM	NM	20	18	3	0	NM	0	2	0	9	8
Alabama	75	34	124.0%	73	32	2	2	8	0	65	32	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Kentucky	16	8	100.9%	10	3	6	5	10	3	NM	0	3	3	0	0	3	3	0	0	0	0	0	0	2	2
Mississippi	71	3	NM	67	NM	4	2	0	0	67	NM	2	1	0	0	2	1	1	0	0	0	1	0	1	1
Tennessee	55	43	28.5%	36	25	19	18	0	0	34	24	15	14	NM	NM	13	13	1	0	NM	0	0	0	5	5
West South Central	899	467	92.6%	661	305	239	163	14	NM	647	301	63	39	0	0	63	39	0	0	0	0	0	0	176	124
Arkansas	44	8	478.7%	40	6	4	2	NM	NM	40	5	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Louisiana	49	44	10.4%	NM	0	48	44	NM	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	45	42
Oklahoma	13	4	261.1%	11	NM	2	1	11	NM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Texas	794	412	92.8%	609	297	185	115	NM	0	607	296	58	36	0	0	58	36	0	0	0	0	0	0	127	79
Mountain	3,431	2,857	20.1%	2,630	2,205	801	651	209	157	2,400	2,030	234	212	20	18	213	195	42	40	1	0	42	40	546	417
Arizona	1,305	1,125	16.0%	865	761	440	364	152	106	709	652	111	104	4	NM	107	100	33	32	0	0	33	32	300	231
Colorado	331	274	20.8%	206	167	125	107	NM	0	201	164	51	46	3	NM	47	44	1	1	0	0	1	1	77	63
Idaho	108	60	80.2%	104	58	5	2	0	0	104	58	1	1	0	0	1	1	0	0	0	0	0	0	4	2
Montana	11	3	330.9%	8	0	3	3	0	0	8	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Nevada	909	733	24.1%	814	650	96	83	8	8	793	631	35	32	13	11	22	21	6	6	1	0	6	5	68	57
New Mexico	292	244	19.9%	236	201	56	43	49	44	188	157	20	17	0	0	20	17	0	0	0	0	0	0	36	26
Utah	473	418	13.2%	398	368	75	49	0	0	398	368	15	11	0	0	15	11	2	2	0	0	2	2	58	37
Wyoming	1	1	38.3%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pacific Contiguous	7,204	5,736	25.6%	4,634	3,720	2,571	2,016	110	86	4,488	3,610	643	458	27	22	616	436	398	336	9	NM	390	334	1,565	1,245
California	7,052	5,649	24.8%	4,538	3,679	2,514	1,970	108	85	4,394	3,570	625	443	27	22	598	421	396	333	9	NM	387	332	1,529	1,217
Oregon	129	69	89.0%	96	40	34	28	NM	NM	95	39	14	13	0	0	14	13	3	3	0	0	3	3	17	13
Washington	23	18	29.5%	0	0	23	18	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	20	15
Pacific Noncontiguous	276	250	10.2%	43	33	232	217	8	10	35	23	89	79	0	0	89	79	1	1	0	0	1	1	143	138
Alaska	0	0	37.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	275	250	10.1%	43	33	232	217	8	10	35	23	88	79	0	0	88	79	1	1	0	0	1	1	143	138
U.S. Total	17,665	13,173	34.1%	11,822	8,559	5,843	4,613	1,072	600	10,622	7,857	2,026	1,594	114	97	1,912	1,498	593	495	15	6	578	489	3,354	2,627

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, March 2018 and 2017 (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	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	9	0	--	9	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	9	0	--	9	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	62	90	-30.6%	0	0	62	90	0	0	0	0
Arizona	48	79	-38.8%	0	0	48	79	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	14	11	30.1%	0	0	14	11	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	186	207	-10.0%	0	0	186	207	0	0	0	0
California	186	207	-10.0%	0	0	186	207	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	258	297	-13.2%	9	0	248	297	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 March 2018 and 2017 (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	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	13	0	NM	13	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	13	0	NM	13	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	143	153	-6.8%	0	0	143	153	0	0	0	0
Arizona	120	136	-12.0%	0	0	120	136	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	23	17	34.8%	0	0	23	17	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	421	369	14.2%	0	0	421	369	0	0	0	0
California	421	369	14.2%	0	0	421	369	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	577	522	10.4%	13	0	564	522	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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,371	496,192	178,047	111	3,021
2017	663,479	485,100	175,500	96	2,783
Year 2016					
January	61,983	45,395	16,319	12	258
February	50,516	37,538	12,717	13	248
March	39,864	30,983	8,616	13	252
April	39,065	28,614	10,238	7	206
May	45,032	33,712	11,064	6	249
June	63,186	46,191	16,721	7	266
July	74,132	53,946	19,894	7	285
August	73,798	53,681	19,827	8	282
Sept	62,335	44,665	17,407	8	254
October	54,537	39,319	14,974	8	237
November	48,076	35,090	12,758	10	218
December	64,847	47,058	17,512	12	266
Year 2017					
January	63,394	46,763	16,354	12	265
February	47,878	35,521	12,112	10	235
March	48,700	35,717	12,738	9	235
April	44,216	31,501	12,507	5	202
May	50,843	37,410	13,209	6	219
June	58,884	43,796	14,854	7	226
July	69,775	52,038	17,494	8	234
August	65,801	49,033	16,527	8	233
Sept	54,702	39,435	15,035	8	225
October	50,129	36,279	13,610	7	233
November	50,864	35,840	14,788	7	229
December	58,292	41,767	16,270	10	246
Year 2018					
January	64,556	47,762	16,510	12	272
February	45,738	33,993	11,488	8	249
March	44,444	32,318	11,869	7	250
Year to Date					
2016	152,363	113,916	37,652	38	757
2017	159,972	118,002	41,204	30	736
2018	154,738	114,074	39,866	27	771
Rolling 12 Months Ending in March					
2017	684,980	500,278	181,599	103	2,999
2018	658,245	481,171	174,162	94	2,818

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	16,586	2,979	1,336	572	11,700
2017	15,302	2,800	1,350	511	10,641
Year 2016					
January	1,624	288	133	63	1,140
February	1,503	277	130	62	1,034
March	1,433	232	117	61	1,023
April	1,215	204	103	39	870
May	1,264	215	90	31	929
June	1,353	241	97	39	976
July	1,472	278	118	39	1,036
August	1,434	270	112	42	1,010
Sept	1,257	216	97	41	903
October	1,260	224	105	42	889
November	1,256	233	99	50	875
December	1,515	301	136	63	1,015
Year 2017					
January	1,510	290	140	55	1,025
February	1,228	208	124	44	852
March	1,357	225	146	49	937
April	1,216	212	103	35	866
May	1,221	206	101	34	880
June	1,208	219	82	39	868
July	1,225	264	104	45	813
August	1,247	264	110	40	832
Sept	1,155	216	94	39	805
October	1,278	225	101	36	916
November	1,320	262	102	42	913
December	1,339	209	143	52	935
Year 2018					
January	1,432	234	144	57	997
February	1,270	212	131	45	883
March	1,271	204	105	43	919
Year to Date					
2016	4,560	797	379	187	3,197
2017	4,095	723	409	148	2,814
2018	3,974	649	379	145	2,799
Rolling 12 Months Ending in March					
2017	16,121	2,905	1,366	533	11,317
2018	15,181	2,726	1,320	508	10,627

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	693,958	499,172	179,383	683	14,720
2017	678,780	487,900	176,849	607	13,424
Year 2016					
January	63,607	45,683	16,452	75	1,397
February	52,019	37,815	12,846	75	1,282
March	41,297	31,215	8,733	74	1,275
April	40,280	28,818	10,341	46	1,076
May	46,297	33,928	11,154	37	1,178
June	64,539	46,432	16,818	46	1,243
July	75,604	54,224	20,012	46	1,321
August	75,232	53,951	19,938	49	1,292
Sept	63,592	44,881	17,504	50	1,157
October	55,798	39,543	15,079	50	1,126
November	49,331	35,322	12,857	60	1,093
December	66,362	47,359	17,648	75	1,280
Year 2017					
January	64,904	47,054	16,494	66	1,290
February	49,106	35,729	12,235	54	1,087
March	50,057	35,942	12,884	58	1,172
April	45,432	31,713	12,611	40	1,068
May	52,064	37,616	13,310	40	1,098
June	60,092	44,015	14,937	46	1,094
July	71,001	52,302	17,598	53	1,047
August	67,048	49,297	16,637	49	1,065
Sept	55,857	39,651	15,129	47	1,030
October	51,406	36,504	13,711	43	1,149
November	52,184	36,102	14,890	50	1,142
December	59,631	41,975	16,413	62	1,181
Year 2018					
January	65,989	47,996	16,654	69	1,270
February	47,008	34,205	11,618	53	1,132
March	45,715	32,522	11,973	51	1,169
Year to Date					
2016	156,923	114,713	38,031	225	3,954
2017	164,067	118,726	41,613	178	3,550
2018	158,712	114,723	40,246	173	3,571
Rolling 12 Months Ending in March					
2017	701,101	503,184	182,965	637	14,316
2018	673,426	483,897	175,482	601	13,445

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	22,405	16,137	5,624	108	536
2017	21,935	15,722	5,553	193	467
Year 2016					
January	2,472	1,727	685	12	48
February	2,230	1,474	698	12	46
March	1,495	1,096	355	4	40
April	1,421	1,055	320	8	38
May	1,662	1,212	386	8	56
June	1,693	1,275	364	7	48
July	2,287	1,711	514	11	52
August	2,231	1,644	537	10	39
Sept	1,620	1,128	441	7	44
October	1,629	1,156	423	7	43
November	1,672	1,249	372	11	40
December	1,995	1,410	530	12	43
Year 2017					
January	1,977	1,459	453	20	45
February	1,569	1,157	362	13	38
March	1,673	1,342	278	16	37
April	1,519	1,188	285	10	36
May	1,752	1,306	394	16	37
June	1,739	1,290	397	14	38
July	1,853	1,296	505	17	35
August	1,723	1,275	392	20	37
Sept	1,723	1,253	417	15	38
October	1,730	1,331	346	14	39
November	1,617	1,184	379	15	39
December	3,058	1,642	1,346	22	47
Year 2018					
January	8,977	4,320	4,531	58	NM
February	1,377	1,100	218	15	44
March	1,414	1,066	294	13	41
Year to Date					
2016	6,196	4,297	1,738	28	134
2017	5,220	3,958	1,092	48	121
2018	11,768	6,486	5,044	86	153
Rolling 12 Months Ending in March					
2017	21,429	15,799	4,979	128	523
2018	28,483	18,249	9,504	231	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,277	68	245	245	1,719
2017	1,964	72	238	289	1,365
Year 2016					
January	231	12	24	43	153
February	316	17	39	27	233
March	178	3	28	7	140
April	174	3	16	17	138
May	198	3	18	14	163
June	181	6	13	14	149
July	185	2	12	28	142
August	153	3	15	18	117
Sept	143	3	14	9	117
October	174	3	18	9	144
November	167	4	14	35	113
December	178	9	33	26	110
Year 2017					
January	207	12	39	39	117
February	136	8	19	28	81
March	138	4	10	30	94
April	137	3	11	16	107
May	157	3	14	19	120
June	148	5	15	15	113
July	125	3	14	17	90
August	138	3	12	19	103
Sept	120	4	14	15	87
October	145	4	18	17	106
November	177	4	21	23	129
December	336	18	51	50	216
Year 2018					
January	644	49	120	139	NM
February	148	5	11	29	103
March	162	4	14	25	119
Year to Date					
2016	725	32	91	77	526
2017	481	24	68	97	292
2018	954	57	146	193	558
Rolling 12 Months Ending in March					
2017	2,033	60	222	265	1,485
2018	2,438	106	316	385	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	24,682	16,205	5,869	352	2,255
2017	23,899	15,794	5,791	482	1,831
Year 2016					
January	2,702	1,739	709	55	200
February	2,546	1,491	737	38	279
March	1,673	1,099	383	12	180
April	1,594	1,058	337	24	175
May	1,860	1,216	403	22	219
June	1,875	1,281	377	21	197
July	2,472	1,713	527	38	194
August	2,384	1,647	552	28	156
Sept	1,763	1,131	455	16	161
October	1,803	1,159	441	16	187
November	1,838	1,254	386	46	153
December	2,173	1,419	563	37	154
Year 2017					
January	2,184	1,471	492	59	162
February	1,705	1,164	381	41	119
March	1,811	1,346	288	46	132
April	1,656	1,190	296	26	143
May	1,910	1,309	408	35	157
June	1,886	1,295	412	29	151
July	1,978	1,299	519	34	125
August	1,861	1,279	404	39	140
Sept	1,843	1,257	431	30	126
October	1,875	1,335	364	31	145
November	1,795	1,188	400	38	167
December	3,395	1,660	1,398	73	264
Year 2018					
January	9,621	4,369	4,651	197	NM
February	1,525	1,104	229	44	148
March	1,576	1,069	309	38	160
Year to Date					
2016	6,921	4,328	1,829	105	659
2017	5,700	3,981	1,160	146	413
2018	12,722	6,543	5,189	279	711
Rolling 12 Months Ending in March					
2017	23,461	15,859	5,200	393	2,009
2018	30,921	18,355	9,820	616	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,253	3,427	591	2	233
2017	3,349	2,731	415	3	200
Year 2016					
January	342	302	16	0	23
February	330	271	39	0	19
March	362	283	63	0	17
April	382	325	43	0	14
May	370	296	52	0	23
June	380	308	52	0	21
July	400	324	56	0	20
August	419	337	61	0	21
Sept	376	311	49	0	16
October	250	171	61	0	18
November	307	239	46	0	21
December	336	260	55	0	20
Year 2017					
January	355	301	40	0	13
February	263	217	32	0	13
March	273	214	40	0	18
April	153	110	29	0	13
May	320	264	38	0	18
June	341	282	40	0	19
July	332	271	39	0	23
August	282	226	38	0	19
Sept	262	209	37	0	16
October	221	171	35	0	15
November	267	234	13	0	19
December	280	231	35	0	14
Year 2018					
January	344	296	36	0	11
February	272	234	29	0	9
March	226	198	15	0	13
Year to Date					
2016	1,033	856	117	1	59
2017	890	733	112	1	44
2018	842	728	80	1	33
Rolling 12 Months Ending in March					
2017	4,110	3,304	586	2	218
2018	3,300	2,726	383	3	189

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,099	6	113	9	971
2017	917	11	115	15	776
Year 2016					
January	86	1	11	2	73
February	95	0	10	2	83
March	85	0	11	2	72
April	73	1	7	0	66
May	96	0	7	0	89
June	100	0	9	0	91
July	101	1	9	1	91
August	101	1	10	0	91
Sept	75	1	10	0	64
October	92	1	11	0	80
November	99	0	10	0	89
December	95	1	10	2	83
Year 2017					
January	74	0	10	2	62
February	63	0	10	1	51
March	85	1	10	2	72
April	70	0	10	1	59
May	76	1	10	1	65
June	92	1	9	1	81
July	79	1	10	0	68
August	84	2	9	2	71
Sept	74	1	9	2	62
October	82	1	9	1	70
November	71	1	9	1	60
December	68	1	10	2	55
Year 2018					
January	69	1	9	2	56
February	61	1	8	2	51
March	57	1	9	1	46
Year to Date					
2016	266	2	32	6	227
2017	221	1	29	5	185
2018	187	3	26	5	153
Rolling 12 Months Ending in March					
2017	1,053	6	111	8	929
2018	883	13	112	15	744

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,352	3,433	705	10	1,204
2017	4,266	2,742	530	17	976
Year 2016					
January	427	302	27	3	96
February	425	272	49	2	102
March	447	283	74	2	89
April	455	326	50	0	80
May	466	296	58	0	112
June	480	308	60	0	111
July	502	325	65	1	111
August	520	337	71	0	112
Sept	451	311	59	0	80
October	342	172	72	0	99
November	406	240	56	0	110
December	431	261	65	2	103
Year 2017					
January	428	301	50	2	75
February	325	218	42	1	65
March	358	215	50	2	90
April	222	110	39	1	72
May	396	265	48	1	83
June	433	283	49	1	100
July	412	272	49	0	91
August	367	228	47	2	89
Sept	337	211	46	2	78
October	302	172	44	2	85
November	338	235	22	1	79
December	348	233	44	2	69
Year 2018					
January	412	297	46	2	67
February	334	235	37	2	60
March	284	199	24	2	59
Year to Date					
2016	1,299	857	149	7	286
2017	1,111	734	142	6	230
2018	1,029	731	106	6	186
Rolling 12 Months Ending in March					
2017	5,164	3,310	697	9	1,147
2018	4,184	2,739	495	17	932

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

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,170,110	5,018,894	4,571,375	46,304	533,537
2017	9,440,777	4,752,790	4,118,433	44,765	524,788
Year 2016					
January	786,040	390,246	347,970	3,499	44,325
February	702,082	352,877	304,311	3,344	41,550
March	758,344	377,953	333,147	3,493	43,751
April	734,600	362,063	327,542	3,278	41,717
May	819,345	407,178	365,297	3,620	43,251
June	985,722	497,616	439,024	4,109	44,973
July	1,157,589	569,028	535,036	5,188	48,337
August	1,168,337	564,916	549,161	5,384	48,875
Sept	932,041	451,574	431,159	4,223	45,086
October	760,610	368,087	345,831	3,675	43,017
November	679,004	333,973	298,069	2,944	44,018
December	686,396	343,384	294,829	3,547	44,637
Year 2017					
January	663,708	329,690	283,243	3,857	46,918
February	573,451	283,558	245,447	3,445	41,001
March	693,489	349,742	296,454	3,831	43,463
April	640,489	326,706	268,102	3,158	42,523
May	723,289	374,999	302,060	3,443	42,787
June	870,696	438,191	384,666	3,771	44,068
July	1,091,770	554,104	486,788	4,170	46,707
August	1,049,281	530,700	469,818	4,173	44,590
Sept	876,462	440,975	390,611	3,897	40,978
October	793,981	397,778	351,044	3,715	41,445
November	679,061	337,407	294,822	3,524	43,308
December	785,101	388,941	345,378	3,781	47,000
Year 2018					
January	811,671	420,768	340,304	3,811	46,789
February	683,640	340,742	297,957	3,553	41,388
March	755,250	374,127	335,455	3,732	41,937
Year to Date					
2016	2,246,466	1,121,076	985,428	10,336	129,627
2017	1,930,649	962,990	825,144	11,133	131,383
2018	2,250,561	1,135,637	973,716	11,095	130,113
Rolling 12 Months Ending in March					
2017	9,854,292	4,860,808	4,411,091	47,101	535,293
2018	9,760,690	4,925,437	4,267,006	44,728	523,519

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

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	1,151,866	38,096	356,905	80,943	675,922
2017	1,156,214	42,382	336,461	75,988	701,383
Year 2016					
January	102,014	3,434	32,304	7,160	59,117
February	92,405	3,264	29,348	6,354	53,439
March	95,161	3,002	30,664	6,298	55,197
April	88,634	2,286	27,002	6,104	53,241
May	92,471	2,888	29,069	6,096	54,418
June	96,618	3,649	30,019	6,907	56,043
July	102,867	3,805	32,099	8,142	58,821
August	105,025	3,723	33,436	8,377	59,489
Sept	95,330	2,973	29,581	6,850	55,926
October	92,360	2,740	27,138	6,125	56,357
November	90,321	2,812	27,191	5,773	54,544
December	98,660	3,520	29,054	6,758	59,328
Year 2017					
January	101,763	3,768	30,660	7,653	59,682
February	91,904	3,190	26,545	6,508	55,660
March	98,721	3,441	29,333	6,528	59,418
April	90,079	3,049	26,033	5,446	55,552
May	90,682	2,960	26,132	5,562	56,028
June	93,506	3,422	27,809	6,089	56,187
July	100,187	4,092	29,292	6,547	60,257
August	97,901	3,982	29,182	6,392	58,346
Sept	93,871	3,664	26,818	5,998	57,391
October	95,459	3,602	27,375	6,139	58,343
November	95,225	3,299	27,285	6,155	58,485
December	106,914	3,913	29,997	6,971	66,034
Year 2018					
January	107,009	3,626	30,197	7,559	65,626
February	95,990	3,327	28,006	6,727	57,930
March	101,580	3,407	29,538	6,587	62,047
Year to Date					
2016	289,580	9,699	92,316	19,811	167,754
2017	292,388	10,400	86,539	20,689	174,761
2018	304,578	10,361	87,741	20,873	185,602
Rolling 12 Months Ending in March					
2017	1,154,674	38,797	351,128	81,821	682,929
2018	1,168,404	42,343	337,664	76,172	712,225

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,321,975	5,056,990	4,928,280	127,246	1,209,459
2017	10,596,991	4,795,172	4,454,894	120,753	1,226,171
Year 2016					
January	888,054	393,680	380,273	10,658	103,442
February	794,487	356,141	333,659	9,697	94,990
March	853,505	380,955	363,811	9,791	98,949
April	823,234	364,349	354,544	9,383	94,958
May	911,816	410,066	394,365	9,716	97,669
June	1,082,340	501,265	469,043	11,016	101,016
July	1,260,455	572,833	567,135	13,330	107,158
August	1,273,362	568,640	582,596	13,761	108,365
Sept	1,027,371	454,547	460,740	11,073	101,012
October	852,970	370,827	372,969	9,800	99,374
November	769,325	336,785	325,260	8,716	98,563
December	785,056	346,904	323,883	10,305	103,965
Year 2017					
January	765,471	333,459	313,903	11,509	106,600
February	665,355	286,748	271,992	9,953	96,662
March	792,211	353,183	325,787	10,359	102,882
April	730,568	329,755	294,135	8,603	98,075
May	813,971	377,959	328,192	9,005	98,815
June	964,202	441,612	412,475	9,860	100,255
July	1,191,957	558,196	516,079	10,718	106,964
August	1,147,182	534,682	499,000	10,564	102,936
Sept	970,332	444,639	417,429	9,895	98,369
October	889,440	401,379	378,419	9,854	99,788
November	774,286	340,707	322,107	9,680	101,792
December	892,015	392,854	375,375	10,752	113,034
Year 2018					
January	918,680	424,394	370,502	11,369	112,415
February	779,630	344,070	325,963	10,280	99,318
March	856,830	377,534	364,993	10,319	103,983
Year to Date					
2016	2,536,046	1,130,776	1,077,743	30,147	297,381
2017	2,223,037	973,390	911,682	31,822	306,143
2018	2,555,139	1,145,998	1,061,458	31,968	315,716
Rolling 12 Months Ending in March					
2017	11,008,966	4,899,604	4,762,219	128,921	1,218,222
2018	10,929,094	4,967,781	4,604,670	120,900	1,235,744

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

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	273,557	24,280	224,993	20,445	3,839
2017	267,266	25,169	219,253	18,957	3,888
Year 2016					
January	22,612	2,036	18,360	1,865	351
February	21,859	2,088	17,744	1,705	323
March	23,337	2,187	19,021	1,786	343
April	22,556	2,080	18,805	1,340	331
May	23,744	2,120	19,554	1,717	354
June	22,668	1,896	18,683	1,768	320
July	23,052	1,950	19,047	1,734	321
August	23,038	2,011	18,978	1,726	324
Sept	21,757	2,010	17,792	1,678	278
October	20,377	1,922	16,583	1,610	263
November	24,047	1,941	20,036	1,762	307
December	24,510	2,041	20,392	1,753	324
Year 2017					
January	23,634	2,207	19,369	1,687	371
February	21,208	2,062	17,332	1,463	351
March	23,157	2,249	18,842	1,672	394
April	21,387	2,091	17,433	1,516	348
May	21,919	2,234	17,939	1,460	286
June	21,978	1,939	18,174	1,547	318
July	22,785	1,979	18,962	1,583	261
August	22,973	2,081	18,999	1,598	296
Sept	21,810	1,990	17,980	1,560	280
October	21,579	2,019	17,839	1,410	311
November	21,839	2,108	17,726	1,671	333
December	22,997	2,209	18,658	1,791	339
Year 2018					
January	23,115	2,263	18,857	1,672	324
February	21,740	2,089	17,786	1,536	329
March	NM	2,250	NM	NM	NM
Year to Date					
2016	67,808	6,311	55,125	5,356	1,017
2017	67,999	6,517	55,544	4,822	1,116
2018	NM	6,602	55,517	NM	NM
Rolling 12 Months Ending in March					
2017	273,748	24,487	225,412	19,911	3,938
2018	NM	25,253	NM	NM	NM

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

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,163	3	2,339	1,034	788
2017	4,870	6	2,836	1,099	928
Year 2016					
January	352	0	202	84	66
February	340	0	189	86	65
March	358	0	196	86	75
April	355	0	201	88	66
May	356	0	194	90	72
June	344	0	193	85	66
July	335	0	181	87	66
August	332	0	181	82	68
Sept	327	0	187	81	59
October	301	0	157	87	56
November	378	0	227	86	66
December	387	0	230	91	65
Year 2017					
January	461	0	292	94	75
February	437	0	274	92	70
March	482	1	313	92	76
April	409	0	222	107	80
May	292	0	133	85	73
June	378	1	190	89	98
July	365	1	209	85	71
August	409	1	214	98	96
Sept	360	1	179	98	82
October	396	1	249	93	54
November	428	0	278	85	65
December	452	0	282	81	89
Year 2018					
January	465	1	330	65	69
February	412	0	285	58	69
March	NM	0	NM	NM	NM
Year to Date					
2016	1,049	1	587	256	205
2017	1,380	1	879	279	221
2018	NM	1	7,222	NM	NM
Rolling 12 Months Ending in March					
2017	4,494	4	2,631	1,056	803
2018	NM	6	NM	NM	NM

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

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-March 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	277,720	24,283	227,332	21,479	4,626
2017	272,136	25,175	222,089	20,056	4,816
Year 2016					
January	22,964	2,036	18,562	1,949	417
February	22,200	2,088	17,933	1,791	388
March	23,694	2,187	19,217	1,873	417
April	22,911	2,081	19,005	1,428	397
May	24,100	2,120	19,748	1,807	425
June	23,012	1,896	18,876	1,853	386
July	23,387	1,950	19,229	1,822	386
August	23,370	2,011	19,159	1,808	392
Sept	22,084	2,010	17,978	1,759	337
October	20,678	1,922	16,740	1,697	319
November	24,425	1,941	20,263	1,848	373
December	24,897	2,042	20,622	1,845	388
Year 2017					
January	24,095	2,207	19,662	1,781	445
February	21,645	2,062	17,607	1,555	422
March	23,639	2,250	19,155	1,764	470
April	21,796	2,091	17,655	1,623	428
May	22,211	2,235	18,072	1,546	359
June	22,356	1,940	18,364	1,636	415
July	23,150	1,980	19,172	1,667	332
August	23,382	2,082	19,213	1,696	392
Sept	22,170	1,991	18,159	1,658	362
October	21,975	2,020	18,088	1,503	365
November	22,267	2,109	18,004	1,756	398
December	23,449	2,209	18,940	1,872	428
Year 2018					
January	23,580	2,264	19,187	1,737	393
February	22,153	2,090	18,071	1,594	399
March	NM	2,250	NM	NM	NM
Year to Date					
2016	68,858	6,311	55,712	5,612	1,222
2017	69,379	6,519	56,423	5,101	1,337
2018	NM	6,604	62,739	NM	NM
Rolling 12 Months Ending in March					
2017	278,242	24,491	228,043	20,967	4,741
2018	NM	25,259	NM	NM	NM

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,994	464	13,953	2,566	11
2017	16,081	422	13,203	2,448	8
Year 2016					
January	1,398	34	1,161	202	1
February	1,283	27	1,081	174	1
March	1,344	41	1,091	211	1
April	1,413	40	1,153	219	1
May	1,463	44	1,205	214	1
June	1,468	40	1,202	225	1
July	1,486	37	1,212	236	1
August	1,509	42	1,233	233	1
Sept	1,397	43	1,142	210	1
October	1,378	37	1,127	213	1
November	1,379	39	1,127	212	1
December	1,476	38	1,220	218	0
Year 2017					
January	1,412	35	1,179	198	0
February	1,223	19	1,020	185	0
March	1,308	36	1,075	197	0
April	1,270	35	1,033	201	0
May	1,386	36	1,130	219	1
June	1,399	38	1,160	199	1
July	1,416	41	1,156	218	1
August	1,428	47	1,166	215	1
Sept	1,299	41	1,057	200	1
October	1,296	33	1,051	210	1
November	1,289	30	1,059	200	1
December	1,356	32	1,117	206	1
Year 2018					
January	1,350	28	1,132	190	0
February	1,278	26	1,076	175	1
March	1,377	40	1,138	198	1
Year to Date					
2016	4,025	102	3,333	587	2
2017	3,943	89	3,274	580	0
2018	4,005	93	3,346	563	2
Rolling 12 Months Ending in March					
2017	16,913	450	13,894	2,560	9
2018	16,143	426	13,275	2,431	10

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	2,232	0	885	1,134	213
2017	1,984	0	814	962	208
Year 2016					
January	191	0	80	92	18
February	189	0	87	88	14
March	219	0	96	104	19
April	181	0	65	98	18
May	182	0	70	96	17
June	172	0	73	81	18
July	186	0	74	96	16
August	191	0	71	96	23
Sept	176	0	64	95	18
October	179	0	65	95	19
November	180	0	68	94	17
December	185	0	71	98	16
Year 2017					
January	191	0	72	99	20
February	160	0	64	84	12
March	176	0	75	82	19
April	161	0	69	74	18
May	171	0	69	84	18
June	172	0	68	88	16
July	173	0	72	84	17
August	183	0	77	84	22
Sept	143	0	63	63	17
October	143	0	59	66	18
November	155	0	64	76	15
December	157	0	63	77	17
Year 2018					
January	170	0	64	90	17
February	151	0	60	80	12
March	155	0	64	79	12
Year to Date					
2016	600	0	263	285	51
2017	527	0	211	265	52
2018	476	0	188	248	40
Rolling 12 Months Ending in March					
2017	2,159	0	833	1,114	213
2018	1,933	0	791	945	197

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-March 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	19,226	464	14,838	3,700	224
2017	18,065	422	14,017	3,410	216
Year 2016					
January	1,589	34	1,241	295	19
February	1,472	27	1,167	262	15
March	1,563	41	1,188	315	19
April	1,594	40	1,218	317	18
May	1,646	44	1,274	310	18
June	1,640	40	1,275	305	19
July	1,673	37	1,286	332	17
August	1,700	42	1,304	330	25
Sept	1,573	43	1,206	305	19
October	1,557	37	1,192	308	20
November	1,559	39	1,195	306	18
December	1,661	38	1,291	316	16
Year 2017					
January	1,604	35	1,251	298	20
February	1,383	19	1,084	269	12
March	1,483	36	1,150	279	19
April	1,431	35	1,102	276	18
May	1,556	36	1,198	303	19
June	1,570	38	1,228	287	17
July	1,589	41	1,228	302	18
August	1,612	47	1,243	299	23
Sept	1,441	41	1,120	262	18
October	1,439	33	1,110	276	19
November	1,444	30	1,123	276	15
December	1,513	32	1,180	283	18
Year 2018					
January	1,521	28	1,196	279	17
February	1,429	26	1,136	255	13
March	1,532	40	1,202	277	13
Year to Date					
2016	4,624	102	3,596	872	54
2017	4,470	89	3,485	845	52
2018	4,481	93	3,534	811	43
Rolling 12 Months Ending in March					
2017	19,072	450	14,727	3,673	222
2018	18,076	426	14,067	3,376	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.
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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2008-March 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	359,983	41,036	149,516	473	168,959
2017	380,237	43,952	165,861	460	169,964
Year 2016					
January	31,835	4,082	13,250	40	14,463
February	30,721	3,797	13,249	41	13,634
March	30,380	3,388	13,073	23	13,897
April	25,323	2,547	10,177	31	12,569
May	26,827	2,497	10,522	14	13,794
June	29,961	3,835	11,762	59	14,305
July	32,167	4,067	13,230	51	14,818
August	33,526	4,113	14,559	72	14,782
Sept	30,502	3,489	13,145	51	13,817
October	27,598	2,574	11,139	29	13,857
November	29,176	2,597	12,211	20	14,349
December	31,967	4,051	13,200	42	14,674
Year 2017					
January	31,706	3,909	13,533	56	14,208
February	29,797	3,477	12,653	50	13,617
March	32,848	4,094	14,372	26	14,356
April	29,061	3,047	12,331	34	13,650
May	30,151	3,584	12,937	43	13,587
June	31,698	3,694	13,829	38	14,138
July	34,231	3,839	15,149	41	15,202
August	34,458	3,818	15,424	41	15,175
Sept	29,493	3,091	13,170	15	13,216
October	32,025	3,893	14,392	33	13,707
November	31,331	3,512	13,877	41	13,901
December	33,438	3,995	14,193	43	15,207
Year 2018					
January	33,483	4,263	14,402	63	14,755
February	29,907	3,562	12,743	42	13,560
March	31,280	4,481	12,293	36	14,470
Year to Date					
2016	92,936	11,266	39,572	103	41,995
2017	94,351	11,480	40,558	131	42,181
2018	94,671	12,307	39,438	141	42,785
Rolling 12 Months Ending in March					
2017	361,398	41,250	150,502	501	169,145
2018	380,557	44,779	164,741	469	170,567

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2008-March 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	969,841	10,950	22,905	4,520	931,465
2017	978,290	11,830	25,325	4,522	936,612
Year 2016					
January	84,483	1,087	2,270	460	80,665
February	79,157	1,150	2,299	415	75,293
March	79,225	1,084	1,926	288	75,928
April	74,954	732	1,780	353	72,089
May	78,419	949	1,753	280	75,437
June	79,180	707	1,832	415	76,225
July	80,796	943	1,826	384	77,644
August	81,164	931	1,794	442	77,998
Sept	75,314	513	1,918	395	72,488
October	76,347	508	1,450	347	74,041
November	80,391	1,132	1,898	340	77,021
December	100,410	1,214	2,159	401	96,636
Year 2017					
January	85,579	1,076	2,005	525	81,973
February	79,087	985	1,792	430	75,881
March	81,473	1,068	2,428	299	77,678
April	77,440	879	2,063	295	74,203
May	78,630	887	2,209	301	75,234
June	80,934	1,051	2,297	322	77,264
July	83,942	1,105	2,079	355	80,403
August	85,888	1,140	2,000	365	82,383
Sept	77,237	979	1,998	233	74,027
October	79,472	933	2,035	402	76,102
November	81,151	782	2,106	473	77,790
December	87,457	946	2,314	524	83,673
Year 2018					
January	83,887	872	2,159	454	80,402
February	78,816	777	2,229	474	75,336
March	81,307	979	2,139	493	77,696
Year to Date					
2016	242,865	3,321	6,495	1,163	231,886
2017	246,139	3,129	6,224	1,254	235,532
2018	244,010	2,628	6,527	1,420	233,435
Rolling 12 Months Ending in March					
2017	973,115	10,758	22,634	4,612	935,111
2018	976,161	11,329	25,628	4,688	934,516

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	18	253	-93.0%	16	6	1	246	0	0	NM	NM
Connecticut	0	28	-100.0%	0	0	0	28	0	0	0	0
Maine	1	2	-28.0%	0	0	1	1	0	0	NM	NM
Massachusetts	0	217	-100.0%	0	0	0	217	0	0	0	0
New Hampshire	16	6	155.0%	16	6	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,952	2,157	-9.5%	0	0	1,944	2,140	0	0	8	17
New Jersey	38	50	-24.0%	0	0	38	50	0	0	0	0
New York	49	37	33.0%	0	0	48	26	0	0	1	10
Pennsylvania	1,865	2,069	-9.9%	0	0	1,858	2,063	0	0	7	6
East North Central	11,671	11,423	2.2%	6,863	6,722	4,736	4,637	1	2	71	62
Illinois	2,998	2,768	8.3%	159	216	2,789	2,506	1	NM	50	45
Indiana	3,137	2,615	20.0%	2,958	2,549	178	65	0	1	0	0
Michigan	1,691	1,964	-14.0%	1,667	1,945	19	18	0	0	5	2
Ohio	2,333	2,731	-15.0%	583	682	1,750	2,048	0	0	0	NM
Wisconsin	1,512	1,345	12.0%	1,496	1,330	0	0	0	0	16	15
West North Central	8,543	8,524	0.2%	8,439	8,425	0	0	2	3	102	96
Iowa	870	744	17.0%	825	709	0	0	2	2	43	33
Kansas	765	798	-4.1%	765	798	0	0	0	0	0	0
Minnesota	1,003	950	5.6%	975	919	0	0	0	0	28	31
Missouri	2,605	3,124	-17.0%	2,605	3,123	0	0	0	1	0	0
Nebraska	1,219	969	26.0%	1,191	939	0	0	0	0	28	29
North Dakota	1,933	1,825	6.0%	1,930	1,822	0	0	0	0	4	NM
South Dakota	148	113	30.0%	148	113	0	0	0	0	0	0
South Atlantic	5,772	7,037	-18.0%	4,622	6,528	1,122	490	1	2	27	17
Delaware	0	13	-100.0%	0	0	0	13	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	680	1,371	-50.0%	679	1,370	0	0	0	0	1	2
Georgia	889	1,279	-30.0%	885	1,276	0	0	0	0	4	2
Maryland	563	149	278.0%	0	0	561	147	0	0	2	2
North Carolina	931	1,124	-17.0%	925	1,117	2	3	0	1	3	3
South Carolina	511	518	-1.3%	511	518	0	0	0	0	0	0
Virginia	426	436	-2.4%	381	405	27	23	0	0	18	8
West Virginia	1,772	2,147	-17.0%	1,240	1,842	531	305	0	0	0	0
East South Central	3,720	4,608	-19.0%	3,528	4,295	179	299	0	0	14	13
Alabama	1,174	1,271	-7.6%	1,173	1,270	0	0	0	0	2	1
Kentucky	1,758	2,133	-18.0%	1,758	2,133	0	0	0	0	0	0
Mississippi	187	358	-48.0%	9	59	179	299	0	0	0	0
Tennessee	600	846	-29.0%	588	834	0	0	0	0	12	12
West South Central	5,919	7,765	-24.0%	3,140	3,643	2,767	4,106	0	0	12	15
Arkansas	755	736	2.7%	508	723	247	12	0	0	1	1
Louisiana	319	391	-18.0%	100	108	220	283	0	0	0	0
Oklahoma	608	828	-27.0%	542	762	54	52	0	0	11	15
Texas	4,236	5,810	-27.0%	1,990	2,050	2,246	3,760	0	0	0	0
Mountain	6,741	6,825	-1.2%	5,689	6,080	1,042	737	0	0	10	8
Arizona	1,287	1,131	14.0%	1,287	1,131	0	0	0	0	0	0
Colorado	1,159	1,352	-14.0%	1,159	1,352	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	925	617	50.0%	24	25	901	592	0	0	0	0
Nevada	57	83	-32.0%	0	20	57	63	0	0	0	0
New Mexico	471	1,048	-55.0%	471	1,048	0	0	0	0	0	0
Utah	845	711	19.0%	807	675	37	36	0	0	0	0
Wyoming	1,997	1,883	6.1%	1,941	1,829	47	47	0	0	9	7
Pacific Contiguous	5	6	-4.1%	0	0	0	0	0	0	5	6
California	5	5	-11.0%	0	0	0	0	0	0	5	5
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	0	322.0%	0	0	0	0	0	0	1	0
Pacific Noncontiguous	103	103	-0.2%	NM	NM	78	82	3	3	0	0
Alaska	NM	NM	NM	NM	NM	14	NM	3	3	0	0
Hawaii	64	72	-11.0%	0	0	64	72	0	0	0	0
U.S. Total	44,444	48,700	-8.7%	32,318	35,717	11,869	12,738	7	9	250	235

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 March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	281	609	-54.0%	160	46	120	562	0	0	NM	NM
Connecticut	116	54	115.0%	0	0	116	54	0	0	0	0
Maine	5	6	-6.7%	0	0	4	5	0	0	NM	NM
Massachusetts	0	503	-100.0%	0	0	0	503	0	0	0	0
New Hampshire	160	46	246.0%	160	46	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,567	6,177	6.3%	0	0	6,542	6,129	0	0	25	48
New Jersey	153	142	7.2%	0	0	153	142	0	0	0	0
New York	157	108	45.0%	0	0	154	81	0	0	4	27
Pennsylvania	6,257	5,927	5.6%	0	0	6,236	5,906	0	0	21	21
East North Central	37,585	36,033	4.3%	22,612	21,758	14,757	14,085	6	4	211	186
Illinois	9,364	8,562	9.4%	570	615	8,646	7,810	4	3	144	134
Indiana	9,771	8,904	9.7%	9,274	8,579	495	324	2	1	0	0
Michigan	6,070	5,936	2.3%	6,001	5,876	55	56	0	0	14	4
Ohio	7,231	7,535	-4.0%	1,670	1,639	5,560	5,895	0	0	1	1
Wisconsin	5,150	5,097	1.0%	5,097	5,049	0	0	0	0	52	47
West North Central	29,431	28,527	3.2%	29,090	28,199	0	0	7	11	334	317
Iowa	3,444	3,051	13.0%	3,312	2,930	0	0	5	7	127	114
Kansas	3,131	3,009	4.1%	3,131	3,009	0	0	0	0	0	0
Minnesota	3,506	3,460	1.3%	3,412	3,363	0	0	0	1	94	96
Missouri	9,358	9,754	-4.1%	9,356	9,750	0	0	1	3	0	0
Nebraska	3,708	3,317	12.0%	3,605	3,219	0	0	0	0	103	98
North Dakota	5,826	5,598	4.1%	5,815	5,590	0	0	0	0	10	8
South Dakota	458	338	35.0%	458	338	0	0	0	0	0	0
South Atlantic	20,967	21,022	-0.3%	17,779	18,901	3,108	2,061	5	5	75	54
Delaware	49	28	74.0%	0	0	49	28	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,892	4,006	-28.0%	2,887	4,000	0	0	0	0	5	6
Georgia	3,558	3,308	7.6%	3,548	3,300	0	0	0	0	10	8
Maryland	1,478	695	113.0%	0	0	1,473	689	0	0	5	5
North Carolina	3,317	2,896	15.0%	3,297	2,872	8	11	4	4	8	10
South Carolina	1,835	1,713	7.1%	1,833	1,711	0	0	0	0	2	1
Virginia	1,332	1,384	-3.7%	1,211	1,305	77	55	1	1	44	24
West Virginia	6,506	6,992	-7.0%	5,005	5,714	1,501	1,279	0	0	0	0
East South Central	14,353	14,900	-3.7%	13,636	14,191	675	669	0	0	42	40
Alabama	4,236	3,905	8.5%	4,232	3,902	0	0	0	0	4	4
Kentucky	6,345	7,101	-11.0%	6,345	7,101	0	0	0	0	0	0
Mississippi	882	952	-7.3%	207	283	675	669	0	0	0	0
Tennessee	2,890	2,942	-1.8%	2,852	2,906	0	0	0	0	38	37
West South Central	23,986	28,465	-16.0%	13,004	14,164	10,943	14,255	0	0	39	47
Arkansas	3,451	3,650	-5.5%	2,714	3,308	735	339	0	0	3	2
Louisiana	1,761	2,064	-15.0%	1,026	1,207	735	857	0	0	0	0
Oklahoma	2,517	2,864	-12.0%	2,255	2,634	225	186	0	0	36	44
Texas	16,257	19,888	-18.0%	7,009	7,015	9,248	12,873	0	0	0	0
Mountain	20,751	23,079	-10.0%	17,729	20,351	2,993	2,703	0	0	28	25
Arizona	4,067	4,016	1.3%	4,067	4,016	0	0	0	0	0	0
Colorado	3,640	4,312	-16.0%	3,639	4,311	0	0	0	0	1	1
Idaho	2	1	8.5%	0	0	0	0	0	0	2	1
Montana	2,671	2,388	12.0%	65	76	2,605	2,312	0	0	1	1
Nevada	148	296	-50.0%	0	151	148	145	0	0	0	0
New Mexico	1,234	2,992	-59.0%	1,234	2,992	0	0	0	0	0	0
Utah	2,852	2,852	0.0%	2,741	2,742	111	110	0	0	0	0
Wyoming	6,138	6,222	-1.4%	5,983	6,064	130	137	0	0	25	22
Pacific Contiguous	516	897	-42.0%	0	334	499	546	0	0	17	17
California	15	16	-5.3%	0	0	0	0	0	0	15	16
Oregon	0	334	-100.0%	0	334	0	0	0	0	0	0
Washington	501	547	-8.4%	0	0	499	546	0	0	2	2
Pacific Noncontiguous	302	262	15.0%	NM	NM	228	195	10	9	0	0
Alaska	112	101	11.0%	NM	NM	38	33	10	9	0	0
Hawaii	190	162	18.0%	0	0	190	162	0	0	0	0
U.S. Total	154,738	159,972	-3.3%	114,074	118,002	39,866	41,204	27	30	771	736

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Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
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, March 2018 and March 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	42	39	5.9%	4	6	33	28	4	6	0	0
Connecticut	7	10	-27.0%	1	1	7	8	NM	1	0	0
Maine	1	7	-85.0%	0	0	0	6	0	1	0	0
Massachusetts	27	14	94.0%	NM	NM	24	12	2	1	0	0
New Hampshire	4	4	16.0%	3	2	NM	NM	2	2	0	0
Rhode Island	1	NM	NM	0	1	NM	NM	0	1	0	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	72	90	-20.0%	18	20	45	62	3	NM	5	6
New Jersey	4	NM	NM	NM	NM	4	NM	0	0	0	0
New York	37	50	-26.0%	17	20	14	25	NM	NM	4	4
Pennsylvania	31	38	-18.0%	0	0	27	36	2	1	2	NM
East North Central	101	66	53.0%	71	37	28	27	1	1	1	1
Illinois	9	10	-7.1%	1	1	8	8	NM	NM	0	0
Indiana	19	11	76.0%	18	10	0	0	0	0	1	1
Michigan	41	11	269.0%	40	10	0	0	1	0	0	0
Ohio	27	30	-9.0%	9	11	19	19	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	1	0	0	0	NM	NM
West North Central	54	47	15.0%	51	46	3	NM	0	0	0	0
Iowa	21	13	58.0%	21	13	NM	NM	0	0	0	0
Kansas	12	6	101.0%	12	6	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	2	NM	0	0	0	0
Missouri	9	11	-14.0%	9	11	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	9	-49.0%	4	9	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	NM	0	0
South Atlantic	139	251	-45.0%	108	206	21	33	3	6	7	5
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	25	114	-78.0%	22	112	1	1	0	0	2	NM
Georgia	12	15	-20.0%	10	12	NM	NM	0	0	NM	1
Maryland	13	15	-16.0%	0	0	12	14	0	0	0	0
North Carolina	32	37	-12.0%	31	31	NM	5	0	0	1	NM
South Carolina	10	19	-44.0%	9	16	0	0	0	0	2	2
Virginia	25	37	-33.0%	16	26	6	6	2	5	NM	NM
West Virginia	20	9	120.0%	20	9	0	0	0	0	0	0
East South Central	35	28	28.0%	33	26	NM	NM	0	0	3	NM
Alabama	NM	6	NM	2	5	NM	NM	0	0	NM	NM
Kentucky	16	13	21.0%	16	13	0	0	0	0	0	0
Mississippi	2	2	51.0%	1	1	0	0	0	0	2	0
Tennessee	14	7	101.0%	14	7	0	NM	0	0	0	0
West South Central	18	17	5.0%	16	NM	2	11	0	0	0	0
Arkansas	8	NM	NM	8	NM	0	1	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	2	2	-14.0%	2	2	0	0	0	0	0	0
Texas	6	14	-54.0%	4	NM	NM	11	0	0	0	0
Mountain	27	31	-16.0%	24	26	2	5	0	0	0	0
Arizona	7	4	65.0%	7	4	0	0	0	0	0	0
Colorado	NM	3	NM	NM	3	0	0	0	0	0	0
Idaho	0	0	-10.0%	0	0	0	0	0	0	0	0
Montana	2	4	-44.0%	NM	NM	2	4	0	0	0	0
Nevada	0	1	-92.0%	0	0	0	1	0	0	0	0
New Mexico	NM	7	NM	NM	7	0	0	0	0	0	0
Utah	5	7	-36.0%	5	7	0	0	0	0	0	0
Wyoming	8	5	65.0%	8	5	0	0	0	0	0	0
Pacific Contiguous	7	8	-10.0%	NM	6	1	1	0	0	1	1
California	6	7	-12.0%	5	6	0	0	0	0	0	1
Oregon	0	0	-50.0%	0	0	0	0	0	0	0	0
Washington	1	1	3.9%	NM	NM	NM	0	0	0	1	1
Pacific Noncontiguous	919	1,095	-16.0%	736	963	159	109	1	2	23	22
Alaska	111	165	-33.0%	104	156	0	0	1	1	6	7
Hawaii	808	930	-13.0%	632	806	159	109	1	0	17	14
U.S. Total	1,414	1,673	-15.0%	1,066	1,342	294	278	13	16	41	37

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 March 2018 and March 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	1,493	201	642.0%	248	21	1,216	163	NM	16	NM	2
Connecticut	310	32	874.0%	NM	3	304	28	NM	NM	1	0
Maine	255	41	523.0%	0	0	248	38	2	2	NM	2
Massachusetts	604	102	490.0%	80	NM	512	93	NM	6	1	0
New Hampshire	242	14	NM	157	9	79	NM	7	5	0	0
Rhode Island	NM	9	NM	0	4	NM	NM	1	2	0	0
Vermont	NM	3	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	3,261	376	767.0%	1,072	124	2,153	228	NM	NM	NM	19
New Jersey	317	29	984.0%	3	NM	311	29	2	0	1	0
New York	2,220	213	940.0%	1,066	123	1,131	74	NM	NM	NM	12
Pennsylvania	724	134	442.0%	2	0	710	124	5	3	NM	6
East North Central	382	213	80.0%	203	129	170	79	NM	1	7	4
Illinois	NM	29	NM	NM	4	30	25	NM	NM	0	0
Indiana	61	40	54.0%	55	37	1	0	0	0	5	3
Michigan	73	37	95.0%	71	36	0	0	1	1	0	1
Ohio	195	89	119.0%	57	36	137	53	0	0	1	0
Wisconsin	NM	17	NM	NM	17	2	0	0	0	NM	NM
West North Central	223	148	50.0%	195	145	NM	NM	1	0	0	0
Iowa	53	42	26.0%	53	41	NM	0	0	0	0	0
Kansas	NM	21	NM	NM	21	0	0	0	0	0	0
Minnesota	NM	15	NM	NM	13	NM	NM	1	0	0	0
Missouri	69	31	121.0%	69	31	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	13	30	-57.0%	13	30	0	0	0	0	0	0
South Dakota	NM	4	NM	NM	4	0	0	NM	NM	0	0
South Atlantic	3,097	769	303.0%	2,006	581	1,021	156	39	19	31	14
Delaware	207	NM	NM	12	0	195	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	237	NM	NM	231	NM	2	0	0	NM	3
Georgia	NM	51	NM	NM	36	NM	NM	4	1	NM	3
Maryland	404	51	688.0%	6	2	396	49	1	0	2	0
North Carolina	625	119	424.0%	584	107	NM	10	0	0	NM	2
South Carolina	NM	45	NM	NM	40	42	1	NM	0	5	3
Virginia	870	193	350.0%	NM	108	192	66	33	18	NM	2
West Virginia	93	56	65.0%	76	56	17	0	0	0	0	0
East South Central	222	122	82.0%	155	114	58	4	0	0	NM	3
Alabama	99	22	341.0%	NM	16	58	4	0	0	NM	NM
Kentucky	52	50	4.3%	52	50	0	0	0	0	0	0
Mississippi	NM	7	NM	NM	7	0	0	0	0	2	0
Tennessee	60	43	41.0%	60	42	0	0	0	0	0	0
West South Central	NM	71	NM	NM	29	NM	41	0	0	3	1
Arkansas	NM	24	NM	NM	NM	1	18	0	0	2	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	7	7	-7.7%	7	7	0	0	0	0	0	0
Texas	NM	36	NM	NM	13	NM	22	0	0	1	0
Mountain	85	113	-25.0%	78	99	7	14	0	0	0	0
Arizona	28	28	-2.2%	28	28	0	0	0	0	0	0
Colorado	9	6	50.0%	9	6	0	0	0	0	0	0
Idaho	0	0	-10.0%	0	0	0	0	0	0	0	0
Montana	6	12	-54.0%	NM	NM	5	12	0	0	0	0
Nevada	1	2	-49.0%	0	0	1	2	0	0	0	0
New Mexico	NM	28	NM	NM	28	0	0	0	0	0	0
Utah	16	18	-11.0%	15	17	0	0	0	0	0	0
Wyoming	17	19	-13.0%	17	19	0	0	0	0	0	0
Pacific Contiguous	29	43	-33.0%	15	24	3	7	0	0	11	11
California	25	26	-1.7%	15	16	1	1	NM	0	9	9
Oregon	0	5	-100.0%	0	5	0	0	0	0	0	0
Washington	3	12	-71.0%	NM	3	NM	6	0	0	2	2
Pacific Noncontiguous	2,891	3,163	-8.6%	2,447	2,691	374	399	5	5	65	68
Alaska	393	499	-21.0%	373	475	0	0	3	3	17	20
Hawaii	2,498	2,664	-6.2%	2,073	2,216	374	399	2	2	48	47
U.S. Total	11,768	5,220	125.0%	6,486	3,958	5,044	1,092	86	48	153	121

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	0	1	-58.0%	0	0	0	0	0	0	0	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	46	62	-26.0%	45	30	0	27	0	0	1	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	41	33	24.0%	40	28	0	0	0	0	1	5
Ohio	0	27	-100.0%	0	0	0	27	0	0	0	0
Wisconsin	5	2	141.0%	5	2	0	0	0	0	0	0
West North Central	1	1	-13.0%	0	0	0	0	0	0	1	1
Iowa	1	1	-13.0%	0	0	0	0	0	0	1	1
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	31	NM	NM	27	0	0	0	0	0	NM	NM
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	27	0	NM	27	0	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	28	-100.0%	0	28	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	28	-100.0%	0	28	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	132	165	-20.0%	126	157	0	0	0	0	7	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	128	161	-20.0%	126	157	0	0	0	0	3	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	2.9%	0	0	0	0	0	0	4	4
Mountain	15	13	17.0%	0	0	15	13	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	13	17.0%	0	0	15	13	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	226	273	-17.0%	198	214	15	40	0	0	13	18

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

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 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	5	5	-7.2%	0	0	0	0	0	0	5	5
New Jersey	2	2	-8.1%	0	0	0	0	0	0	2	2
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	3	NM	0	0	0	0	0	0	NM	3
East North Central	209	191	9.3%	166	105	38	73	0	0	5	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	158	113	40.0%	153	100	0	0	0	0	5	13
Ohio	38	73	-48.0%	0	0	38	73	0	0	0	0
Wisconsin	13	5	150.0%	13	5	0	0	0	0	0	0
West North Central	4	3	30.0%	0	0	0	0	1	1	3	2
Iowa	4	3	30.0%	0	0	0	0	1	1	3	2
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	151	76	100.0%	143	70	0	0	0	0	8	6
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	143	70	104.0%	143	70	0	0	0	0	0	0
Georgia	8	6	42.0%	0	0	0	0	0	0	8	6
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	79	-100.0%	0	79	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	79	-100.0%	0	79	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	431	497	-13.0%	419	479	0	0	0	0	12	19
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	425	487	-13.0%	419	479	0	0	0	0	6	8
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	10	-38.0%	0	0	0	0	0	0	6	10
Mountain	42	39	7.4%	0	0	42	39	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	42	39	7.4%	0	0	42	39	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	842	890	-5.4%	728	733	80	112	1	1	33	44

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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, March 2018 and March 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	27,586	27,818	-0.8%	NM	NM	26,618	26,726	393	401	499	557
Connecticut	10,525	8,261	27.0%	26	34	10,096	7,832	172	167	230	228
Maine	1,625	NM	NM	0	0	1,489	NM	11	10	125	193
Massachusetts	11,974	13,256	-9.7%	NM	NM	11,609	12,840	190	200	127	119
New Hampshire	261	1,490	-82.0%	1	2	241	1,463	3	7	17	18
Rhode Island	3,199	3,003	6.5%	0	0	3,183	2,987	16	16	0	0
Vermont	1	2	-51.0%	1	2	0	0	1	1	0	0
Middle Atlantic	90,381	89,314	1.2%	5,954	7,494	82,727	80,282	548	562	1,153	976
New Jersey	22,785	25,513	-11.0%	NM	NM	22,413	25,058	89	97	186	172
New York	26,347	31,212	-16.0%	5,849	7,306	19,765	23,306	389	397	344	203
Pennsylvania	41,248	32,589	27.0%	6	2	40,549	31,918	70	68	623	602
East North Central	74,766	64,161	17.0%	25,346	29,014	46,474	32,235	601	657	2,345	2,254
Illinois	7,864	10,443	-25.0%	341	NM	6,943	8,872	159	235	420	431
Indiana	13,067	12,931	1.1%	4,213	9,753	7,657	2,073	69	59	1,127	1,046
Michigan	21,422	17,507	22.0%	6,567	6,114	14,015	10,623	273	238	567	532
Ohio	22,381	15,828	41.0%	4,844	5,925	17,400	9,717	52	95	85	90
Wisconsin	10,032	7,452	35.0%	9,382	6,317	458	949	47	31	146	154
West North Central	16,198	11,237	44.0%	13,757	9,518	2,086	NM	114	107	241	172
Iowa	3,342	1,327	152.0%	3,178	1,248	0	0	36	32	129	47
Kansas	1,898	1,481	28.0%	1,882	1,451	0	0	0	0	16	30
Minnesota	5,578	3,853	45.0%	4,703	3,243	773	508	33	33	69	69
Missouri	3,756	3,138	20.0%	2,390	NM	1,313	NM	38	41	15	17
Nebraska	248	359	-31.0%	240	358	0	0	8	1	0	0
North Dakota	885	627	41.0%	873	618	0	0	0	0	12	9
South Dakota	491	452	8.7%	491	452	0	0	0	0	0	0
South Atlantic	197,072	190,248	3.6%	162,884	155,267	31,684	32,316	646	548	1,858	2,117
Delaware	4,113	4,623	-11.0%	1	0	3,803	4,200	0	0	310	423
District of Columbia	71	71	-0.3%	0	0	0	0	71	71	0	0
Florida	91,650	90,527	1.2%	87,997	84,446	3,009	5,437	8	12	636	632
Georgia	27,650	27,899	-0.9%	22,403	20,461	4,945	7,098	0	0	302	340
Maryland	7,277	5,011	45.0%	1,264	0	5,423	4,517	553	455	37	38
North Carolina	27,924	24,933	12.0%	24,734	21,927	3,123	2,951	3	7	63	47
South Carolina	10,045	9,659	4.0%	7,783	7,940	2,184	1,651	0	0	78	68
Virginia	27,986	26,842	4.3%	18,595	20,242	9,010	6,192	10	3	370	404
West Virginia	355	683	-48.0%	106	252	NM	NM	0	0	63	163
East South Central	72,648	76,286	-4.8%	49,433	52,047	22,104	23,161	82	82	1,029	997
Alabama	28,910	29,873	-3.2%	10,125	9,226	18,265	20,129	0	0	520	518
Kentucky	9,278	7,514	23.0%	8,469	6,836	733	586	0	0	75	92
Mississippi	26,950	29,749	-9.4%	23,686	27,133	3,088	2,445	0	0	177	171
Tennessee	7,509	9,150	-18.0%	7,153	8,853	18	1	82	82	256	215
West South Central	166,569	154,965	7.5%	51,376	48,983	87,266	75,870	219	348	27,707	29,764
Arkansas	10,586	10,715	-1.2%	2,819	3,640	7,647	6,954	0	0	120	120
Louisiana	27,749	32,150	-14.0%	16,310	17,580	1,924	3,317	53	69	9,463	11,184
Oklahoma	16,649	13,145	27.0%	10,028	8,498	6,390	4,474	0	0	231	174
Texas	111,585	98,954	13.0%	22,219	19,264	71,306	61,125	167	279	17,893	18,286
Mountain	45,497	35,758	27.0%	37,398	29,388	6,641	5,066	196	187	1,263	1,117
Arizona	11,902	7,355	62.0%	11,143	6,335	705	970	54	50	0	0
Colorado	8,205	5,515	49.0%	6,904	4,446	1,273	1,038	0	0	28	31
Idaho	1,046	1,390	-25.0%	NM	794	849	530	15	15	59	51
Montana	296	346	-14.0%	280	307	NM	36	0	0	0	3
Nevada	13,638	12,857	6.1%	12,518	11,985	830	691	22	23	268	157
New Mexico	6,061	5,141	18.0%	3,418	3,480	2,558	1,612	46	45	39	5
Utah	3,918	2,772	41.0%	2,981	2,020	409	189	59	54	469	509
Wyoming	431	382	13.0%	32	NM	0	0	0	0	400	360
Pacific Contiguous	61,863	41,759	48.0%	25,261	15,981	29,856	19,359	932	938	5,814	5,481
California	46,757	34,834	34.0%	18,217	12,570	21,932	15,963	904	921	5,704	5,380
Oregon	9,477	2,996	216.0%	4,429	1,386	4,978	1,548	19	8	52	54
Washington	5,628	3,929	43.0%	2,615	2,025	2,945	1,848	9	9	58	47
Pacific Noncontiguous	2,671	1,944	37.0%	2,643	1,916	0	0	0	0	28	28
Alaska	2,671	1,944	37.0%	2,643	1,916	0	0	0	0	28	28
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	755,250	693,489	8.9%	374,127	349,742	335,455	296,454	3,732	3,831	41,937	43,463

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 March 2018 and March 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	77,483	80,330	-3.5%	NM	NM	74,635	77,482	1,096	1,149	1,442	1,472
Connecticut	29,033	27,149	6.9%	90	99	27,840	25,914	472	493	630	644
Maine	3,358	4,560	-26.0%	0	0	2,919	4,073	33	31	406	456
Massachusetts	35,010	36,532	-4.2%	NM	NM	33,906	35,527	535	559	357	324
New Hampshire	1,439	3,528	-59.0%	5	4	1,376	3,457	9	19	49	48
Rhode Island	8,640	8,555	1.0%	0	0	8,595	8,511	45	45	0	0
Vermont	3	6	-48.0%	1	4	0	0	2	2	0	0
Middle Atlantic	249,664	243,913	2.4%	19,275	20,620	225,717	218,986	1,528	1,550	3,144	2,757
New Jersey	58,501	61,789	-5.3%	NM	NM	57,430	60,656	234	250	524	497
New York	76,102	85,708	-11.0%	18,934	20,227	55,182	63,823	1,078	1,121	908	538
Pennsylvania	115,061	96,415	19.0%	28	7	113,105	94,507	216	179	1,712	1,722
East North Central	218,389	166,298	31.0%	83,228	72,644	126,596	85,537	1,853	1,870	6,712	6,247
Illinois	22,685	25,703	-12.0%	1,253	2,172	19,766	21,855	488	522	1,178	1,154
Indiana	41,784	33,794	24.0%	21,686	25,484	16,635	5,258	227	225	3,236	2,828
Michigan	56,280	43,739	29.0%	17,199	15,008	36,667	26,457	804	720	1,610	1,554
Ohio	68,904	44,652	54.0%	15,755	13,534	52,658	30,569	230	307	261	242
Wisconsin	28,736	18,410	56.0%	27,337	16,446	870	1,398	104	96	426	470
West North Central	43,963	30,407	45.0%	37,764	25,426	5,042	4,116	363	331	794	534
Iowa	8,966	4,078	120.0%	8,478	3,773	0	0	126	78	362	227
Kansas	4,945	3,001	65.0%	4,788	2,947	0	0	0	0	157	54
Minnesota	14,534	11,530	26.0%	12,130	9,535	2,102	1,629	116	179	187	188
Missouri	11,128	7,848	42.0%	8,035	5,241	2,940	2,487	102	69	50	50
Nebraska	701	778	-9.9%	683	773	0	0	18	5	0	0
North Dakota	2,371	1,960	21.0%	2,332	1,945	0	0	0	0	39	15
South Dakota	1,318	1,212	8.7%	1,318	1,212	0	0	0	0	0	0
South Atlantic	573,388	515,836	11.0%	474,268	428,587	91,694	79,708	1,814	1,617	5,612	5,924
Delaware	9,726	10,828	-10.0%	2	4	8,896	9,633	0	0	829	1,191
District of Columbia	180	217	-17.0%	0	0	0	0	180	217	0	0
Florida	264,278	240,572	9.9%	250,380	224,710	11,998	13,975	29	37	1,871	1,850
Georgia	89,461	84,553	5.8%	70,517	65,645	18,011	18,015	0	0	934	892
Maryland	17,131	10,413	65.0%	4,053	0	11,399	8,970	1,566	1,332	113	111
North Carolina	75,452	68,975	9.4%	66,155	60,925	9,079	7,898	18	16	200	136
South Carolina	28,720	26,187	9.7%	23,658	22,936	4,850	3,043	1	2	212	205
Virginia	87,009	72,678	20.0%	59,074	53,996	26,812	17,614	21	13	1,101	1,055
West Virginia	1,430	1,413	1.2%	430	370	NM	NM	0	0	352	484
East South Central	228,908	188,935	21.0%	161,133	128,806	64,470	56,932	272	252	3,033	2,945
Alabama	85,653	77,515	10.0%	29,847	27,047	54,216	48,895	0	0	1,589	1,574
Kentucky	30,703	17,089	80.0%	28,419	16,029	2,031	791	0	0	253	268
Mississippi	90,234	74,420	21.0%	81,491	66,669	8,180	7,226	33	21	530	504
Tennessee	22,319	19,912	12.0%	21,375	19,062	44	20	239	232	661	599
West South Central	532,545	417,605	28.0%	164,753	121,710	277,256	203,365	754	966	89,782	91,565
Arkansas	33,019	22,365	48.0%	9,609	8,443	22,989	13,541	0	0	421	380
Louisiana	95,684	86,774	10.0%	54,449	44,031	6,467	6,953	163	199	34,605	35,590
Oklahoma	52,817	38,360	38.0%	30,491	25,533	21,670	12,377	0	0	657	450
Texas	351,025	270,107	30.0%	70,204	43,703	226,131	170,495	591	767	54,100	55,143
Mountain	139,868	117,528	19.0%	112,624	94,397	23,240	19,382	576	534	3,429	3,215
Arizona	35,751	22,364	60.0%	30,805	17,781	4,795	4,442	151	141	0	0
Colorado	27,980	18,892	48.0%	23,135	15,343	4,774	3,466	0	0	71	83
Idaho	3,556	4,363	-19.0%	1,038	2,426	2,308	1,713	44	45	165	179
Montana	969	1,045	-7.3%	829	867	133	168	0	0	6	10
Nevada	41,127	41,843	-1.7%	37,002	38,111	3,394	3,228	67	62	664	442
New Mexico	17,198	16,452	4.5%	9,949	10,373	7,071	5,941	139	132	39	7
Utah	11,910	11,309	5.3%	9,653	9,349	758	424	174	153	1,325	1,383
Wyoming	1,377	1,259	9.4%	213	147	5	0	0	0	1,159	1,112
Pacific Contiguous	178,986	163,989	9.1%	74,981	64,856	85,065	79,636	2,838	2,847	16,102	16,650
California	139,534	130,305	7.1%	55,826	49,168	65,165	62,021	2,752	2,786	15,792	16,331
Oregon	24,120	18,767	29.0%	10,642	6,940	13,281	11,647	59	38	137	143
Washington	15,333	14,916	2.8%	8,513	8,748	6,620	5,968	27	24	173	176
Pacific Noncontiguous	7,366	5,808	27.0%	7,301	5,717	0	0	2	17	64	75
Alaska	7,366	5,808	27.0%	7,301	5,717	0	0	2	17	64	75
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,250,561	1,930,649	17.0%	1,135,637	962,990	973,716	825,144	11,095	11,133	130,113	131,383

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

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, March 2018 and March 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	921	944	-2.4%	0	0	897	924	24	20	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	358	364	-1.7%	0	0	358	364	0	0	0	0
New Hampshire	91	90	1.7%	0	0	67	NM	24	20	0	0
Rhode Island	344	362	-4.8%	0	0	344	362	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	NM	4,599	NM	0	0	NM	4,360	NM	83	136	157
New Jersey	NM	627	NM	0	0	632	599	NM	NM	0	0
New York	1,366	1,387	-1.5%	0	0	1,366	1,387	0	0	0	0
Pennsylvania	NM	2,585	NM	0	0	NM	2,373	NM	NM	136	157
East North Central	NM	5,545	NM	656	676	NM	4,809	36	35	NM	25
Illinois	980	1,140	-14.0%	36	45	944	1,095	0	0	0	0
Indiana	NM	716	NM	620	617	106	94	0	0	NM	NM
Michigan	1,791	1,766	1.4%	0	0	1,791	1,766	0	0	0	0
Ohio	925	904	2.3%	0	0	925	904	0	0	0	0
Wisconsin	NM	1,019	NM	0	NM	NM	949	36	35	22	21
West North Central	1,015	906	12.0%	302	308	713	598	0	0	0	0
Iowa	227	120	90.0%	0	0	227	120	0	0	0	0
Kansas	121	120	1.6%	0	0	121	120	0	0	0	0
Minnesota	335	337	-0.6%	NM	NM	264	258	0	0	0	0
Missouri	175	190	-8.2%	NM	NM	101	NM	0	0	0	0
Nebraska	156	139	12.0%	156	139	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	NM	3,948	NM	397	409	NM	3,209	NM	119	NM	212
Delaware	NM	116	NM	0	0	103	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	611	600	1.9%	137	132	474	468	0	0	0	0
Georgia	329	316	3.9%	0	0	325	280	0	0	3	36
Maryland	NM	248	NM	0	0	167	169	NM	79	0	0
North Carolina	NM	914	NM	0	0	NM	896	NM	NM	0	0
South Carolina	NM	466	NM	255	269	NM	NM	0	0	NM	163
Virginia	NM	1,288	NM	5	8	1,232	1,258	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	469	476	-1.5%	183	184	286	293	0	0	0	0
Alabama	96	NM	NM	0	0	96	NM	0	0	0	0
Kentucky	192	204	-5.8%	183	184	9	20	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	163	160	1.4%	0	0	163	160	0	0	0	0
West South Central	1,219	1,317	-7.5%	0	0	1,163	1,281	56	36	0	0
Arkansas	138	134	2.9%	0	0	138	134	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,048	1,150	-8.8%	0	0	992	1,114	56	36	0	0
Mountain	562	550	2.2%	NM	NM	496	494	47	36	0	0
Arizona	78	NM	NM	0	0	78	NM	0	0	0	0
Colorado	94	NM	NM	0	0	94	NM	0	0	0	0
Idaho	73	NM	NM	NM	NM	NM	NM	18	15	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	136	139	-2.4%	0	0	136	139	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	180	167	8.0%	0	0	151	145	29	21	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	NM	4,799	NM	693	652	NM	2,876	NM	1,271	0	0
California	NM	3,963	NM	247	231	NM	2,504	NM	1,227	0	0
Oregon	NM	453	NM	127	118	337	291	NM	NM	0	0
Washington	398	384	3.7%	318	303	80	NM	0	0	0	0
Pacific Noncontiguous	72	71	1.4%	0	0	0	0	72	71	0	0
Alaska	72	71	1.4%	0	0	0	0	72	71	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	NM	23,157	NM	2,250	2,249	NM	18,842	NM	1,672	NM	394

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through March 2018 and March 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	2,678	2,734	-2.0%	0	0	2,621	2,674	58	60	0	0
Connecticut	112	112	0.0%	0	0	112	112	0	0	0	0
Maine	174	174	0.0%	0	0	174	174	0	0	0	0
Massachusetts	1,051	1,074	-2.2%	0	0	1,051	1,074	0	0	0	0
New Hampshire	257	261	-1.5%	0	0	200	201	58	60	0	0
Rhode Island	991	1,021	-3.0%	0	0	991	1,021	0	0	0	0
Vermont	94	92	2.1%	0	0	94	92	0	0	0	0
Middle Atlantic	NM	13,614	NM	0	0	12,647	12,956	NM	226	381	432
New Jersey	NM	1,966	NM	0	0	1,861	1,886	NM	80	0	0
New York	4,012	4,035	-0.6%	0	0	4,012	4,035	0	0	0	0
Pennsylvania	NM	7,612	NM	0	0	NM	7,035	NM	145	381	432
East North Central	NM	16,400	NM	1,897	2,008	NM	14,222	87	96	NM	73
Illinois	2,874	3,340	-14.0%	97	122	2,777	3,218	0	0	0	0
Indiana	NM	2,115	NM	1,800	1,849	293	259	0	0	NM	7
Michigan	5,194	5,291	-1.8%	0	0	5,194	5,291	0	0	0	0
Ohio	2,704	2,701	0.1%	0	0	2,704	2,701	0	0	0	0
Wisconsin	NM	2,952	NM	0	NM	NM	2,753	87	96	65	66
West North Central	2,990	2,609	15.0%	899	886	2,091	1,723	0	0	0	0
Iowa	663	312	113.0%	0	0	663	312	0	0	0	0
Kansas	357	353	1.2%	0	0	357	353	0	0	0	0
Minnesota	992	987	0.6%	219	224	774	763	0	0	0	0
Missouri	528	538	-1.8%	231	243	297	295	0	0	0	0
Nebraska	450	419	7.2%	450	419	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	NM	11,600	NM	1,168	1,209	NM	9,440	NM	341	NM	611
Delaware	NM	340	NM	0	0	305	303	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,776	1,800	-1.3%	386	416	1,390	1,384	0	0	0	0
Georgia	1,021	992	2.9%	0	0	1,006	890	0	0	15	102
Maryland	NM	724	NM	0	0	495	493	NM	230	0	0
North Carolina	NM	2,642	NM	0	0	NM	2,594	NM	NM	0	0
South Carolina	NM	1,344	NM	764	771	102	102	0	0	NM	471
Virginia	NM	3,758	NM	18	22	3,739	3,673	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	1,379	1,394	-1.0%	539	539	840	855	0	0	0	0
Alabama	282	278	1.5%	0	0	282	278	0	0	0	0
Kentucky	565	589	-4.2%	539	539	26	50	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	479	473	1.1%	0	0	479	473	0	0	0	0
West South Central	3,722	3,859	-3.5%	0	0	3,576	3,734	146	125	0	0
Arkansas	404	398	1.6%	0	0	404	398	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	96	96	0.4%	0	0	96	96	0	0	0	0
Texas	3,222	3,365	-4.3%	0	0	3,076	3,240	146	125	0	0
Mountain	1,649	1,650	0.0%	NM	NM	1,471	1,480	122	113	0	0
Arizona	229	226	1.1%	0	0	229	226	0	0	0	0
Colorado	275	271	1.4%	0	0	275	271	0	0	0	0
Idaho	216	206	5.2%	NM	NM	106	106	54	43	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	404	404	0.0%	0	0	404	404	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	517	532	-2.7%	0	0	448	462	69	70	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	NM	13,990	NM	2,043	1,818	NM	8,460	NM	3,712	0	0
California	NM	11,548	NM	724	604	NM	7,362	NM	3,582	0	0
Oregon	NM	1,348	NM	371	356	978	862	NM	130	0	0
Washington	1,184	1,094	8.2%	948	858	235	236	0	0	0	0
Pacific Noncontiguous	210	150	40.0%	0	0	0	0	210	150	0	0
Alaska	210	150	40.0%	0	0	0	0	210	150	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	NM	67,999	NM	6,602	6,517	55,517	55,544	NM	4,822	NM	1,116

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

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	295	297	-0.5%	0	0	278	279	17	18	0	0
Connecticut	91	107	-15.0%	0	0	91	107	0	0	0	0
Maine	26	27	-4.8%	0	0	9	9	17	18	0	0
Massachusetts	170	154	10.0%	0	0	170	154	0	0	0	0
New Hampshire	8	8	0.8%	0	0	8	8	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	443	441	0.5%	0	0	354	352	89	89	0	0
New Jersey	121	122	-1.6%	0	0	89	92	31	30	0	0
New York	NM	151	NM	0	0	129	116	NM	35	0	0
Pennsylvania	155	168	-7.5%	0	0	136	144	19	24	0	0
East North Central	18	19	-7.1%	2	3	0	0	15	16	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	1	22.0%	0	0	0	0	2	1	0	0
Michigan	14	15	-6.4%	0	0	0	0	14	15	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	2	3	-23.0%	2	3	0	0	0	0	0	0
West North Central	NM	48	NM	37	32	21	15	NM	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	NM	48	NM	37	32	21	15	NM	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	461	402	15.0%	0	0	423	359	38	43	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	307	319	-3.7%	0	0	307	319	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	52	40	29.0%	0	0	52	40	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	103	43	136.0%	0	0	64	0	38	43	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	0	--	0	0	0	0	0	0	1	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	0	--	0	0	0	0	0	0	1	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	62	70	-10.0%	0	0	62	70	0	0	0	0
California	40	44	-9.5%	0	0	40	44	0	0	0	0
Oregon	9	10	-11.0%	0	0	9	10	0	0	0	0
Washington	14	15	-11.0%	0	0	14	15	0	0	0	0
Pacific Noncontiguous	39	31	23.0%	0	0	0	0	39	31	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	39	31	23.0%	0	0	0	0	39	31	0	0
U.S. Total	1,377	1,308	5.3%	40	36	1,138	1,075	198	197	1	0

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

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through March 2018 and March 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	880	868	1.4%	0	0	826	820	54	48	0	0
Connecticut	282	294	-4.2%	0	0	282	294	0	0	0	0
Maine	84	76	9.9%	0	0	30	29	54	48	0	0
Massachusetts	485	468	3.7%	0	0	485	468	0	0	0	0
New Hampshire	29	29	-0.4%	0	0	29	29	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	1,271	1,284	-1.0%	0	0	1,011	1,028	260	255	0	0
New Jersey	353	353	0.0%	0	0	265	266	88	87	0	0
New York	NM	447	NM	0	0	342	340	NM	106	0	0
Pennsylvania	465	485	-4.0%	0	0	404	422	61	62	0	0
East North Central	55	57	-3.5%	7	9	0	0	48	49	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	5	4	24.0%	0	0	0	0	5	4	0	0
Michigan	43	44	-3.2%	0	0	0	0	43	44	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	7	9	-17.0%	7	9	0	0	0	0	0	0
West North Central	NM	136	NM	86	80	58	55	NM	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	NM	136	NM	86	80	58	55	NM	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	1,374	1,306	5.2%	0	0	1,273	1,184	101	122	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	942	978	-3.7%	0	0	942	978	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	154	140	9.8%	0	0	154	140	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	279	189	48.0%	0	0	177	66	101	122	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	2	0	--	0	0	0	0	0	0	2	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2	0	--	0	0	0	0	0	0	2	0
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	178	186	-4.5%	0	0	178	186	0	0	0	0
California	111	119	-7.0%	0	0	111	119	0	0	0	0
Oregon	28	29	-4.4%	0	0	28	29	0	0	0	0
Washington	39	38	3.7%	0	0	39	38	0	0	0	0
Pacific Noncontiguous	100	106	-5.5%	0	0	0	0	100	106	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	100	106	-5.5%	0	0	0	0	100	106	0	0
U.S. Total	4,005	3,943	1.6%	93	89	3,346	3,274	563	580	2	0

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

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, March 2018 and March 2017 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	4,968	5,534	-10.0%	868	832	3,661	4,221	1	13	438	468
Connecticut	352	405	-13.0%	0	0	352	405	0	0	0	0
Maine	1,970	2,260	-13.0%	0	0	1,531	1,779	0	12	438	468
Massachusetts	NM	195	NM	0	0	NM	195	0	0	0	0
New Hampshire	1,882	2,129	-12.0%	446	480	1,436	1,649	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	590	544	8.4%	422	351	NM	192	1	1	0	0
Middle Atlantic	1,099	1,159	-5.2%	0	0	539	551	0	0	560	608
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	633	647	-2.2%	0	0	538	551	0	0	94	96
Pennsylvania	466	513	-9.1%	0	0	0	0	0	0	466	513
East North Central	2,199	2,364	-7.0%	443	507	1,059	1,207	0	0	697	650
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,364	1,485	-8.1%	0	0	1,048	1,193	0	0	316	293
Ohio	109	123	-12.0%	0	0	11	14	0	0	98	109
Wisconsin	726	756	-4.0%	443	507	0	0	0	0	283	249
West North Central	1,034	1,014	1.9%	182	195	508	540	24	9	319	271
Iowa	0	0	-62.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,009	1,006	0.4%	182	195	508	540	0	0	319	271
Missouri	24	8	193.0%	0	0	0	0	24	8	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	10,778	10,840	-0.6%	2,596	2,111	2,737	3,302	10	4	5,435	5,424
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	1,810	1,838	-1.5%	522	0	532	1,065	0	0	756	773
Georgia	2,946	2,694	9.4%	0	0	847	642	0	0	2,099	2,051
Maryland	49	58	-15.0%	0	0	0	0	10	4	39	54
North Carolina	1,181	1,299	-9.0%	0	0	568	716	0	0	613	583
South Carolina	1,571	1,579	-0.5%	235	182	527	579	0	0	808	818
Virginia	3,220	3,373	-4.5%	1,839	1,928	262	300	0	0	1,120	1,145
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,986	3,109	-3.9%	0	0	209	210	0	0	2,777	2,899
Alabama	2,022	2,001	1.1%	0	0	209	210	0	0	1,813	1,791
Kentucky	138	133	3.7%	0	0	0	0	0	0	138	133
Mississippi	460	592	-22.0%	0	0	0	0	0	0	460	592
Tennessee	366	382	-4.2%	0	0	0	0	0	0	366	382
West South Central	2,520	2,624	-3.9%	0	0	33	242	0	0	2,487	2,382
Arkansas	599	532	13.0%	0	0	0	0	0	0	599	532
Louisiana	1,336	1,299	2.9%	0	0	0	0	0	0	1,336	1,299
Oklahoma	172	172	-0.3%	0	0	0	0	0	0	172	172
Texas	413	620	-33.0%	0	0	33	242	0	0	380	379
Mountain	526	581	-9.6%	0	0	364	435	0	0	162	147
Arizona	NM	298	NM	0	0	NM	298	0	0	0	0
Colorado	81	124	-35.0%	0	0	81	124	0	0	0	0
Idaho	165	139	19.0%	0	0	24	13	0	0	141	126
Montana	20	21	-2.4%	0	0	0	0	0	0	20	21
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,171	5,622	-8.0%	392	450	3,184	3,666	0	0	1,595	1,506
California	3,374	3,764	-10.0%	0	0	2,927	3,370	0	0	446	393
Oregon	602	650	-7.3%	0	0	257	295	0	0	345	355
Washington	1,195	1,208	-1.1%	392	450	0	0	0	0	803	758
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	31,280	32,848	-4.8%	4,481	4,094	12,293	14,372	36	26	14,470	14,356

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through March 2018 and March 2017 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	15,282	15,876	-3.7%	2,621	2,397	11,284	12,062	11	28	1,366	1,389
Connecticut	1,070	1,163	-8.1%	0	0	1,070	1,163	0	0	0	0
Maine	6,175	6,490	-4.9%	0	0	4,800	5,076	9	25	1,366	1,389
Massachusetts	517	570	-9.3%	0	0	517	570	0	0	0	0
New Hampshire	5,675	6,038	-6.0%	1,287	1,335	4,388	4,703	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,845	1,614	14.0%	1,334	1,061	509	549	2	3	0	0
Middle Atlantic	3,394	3,373	0.6%	0	0	1,705	1,650	0	0	1,688	1,723
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	1,992	1,938	2.8%	0	0	1,704	1,650	0	0	288	288
Pennsylvania	1,401	1,435	-2.4%	0	0	1	0	0	0	1,400	1,435
East North Central	6,755	6,627	1.9%	1,464	1,367	3,274	3,358	0	0	2,016	1,901
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	4,176	4,165	0.3%	0	0	3,239	3,318	0	0	937	847
Ohio	305	333	-8.5%	0	0	35	40	0	0	270	293
Wisconsin	2,274	2,129	6.8%	1,464	1,367	0	0	0	0	810	761
West North Central	2,699	2,778	-2.8%	545	551	1,289	1,425	95	76	770	725
Iowa	1	1	-25.0%	0	0	0	0	1	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	2,618	2,704	-3.2%	545	551	1,289	1,425	14	3	770	725
Missouri	80	73	10.0%	0	0	0	0	80	73	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	32,486	31,110	4.4%	6,483	5,877	9,744	9,265	35	27	16,225	15,940
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	5,456	5,009	8.9%	522	0	2,681	2,732	0	0	2,253	2,278
Georgia	8,926	7,840	14.0%	0	0	2,717	1,786	0	0	6,208	6,054
Maryland	169	190	-11.0%	0	0	0	0	35	27	134	163
North Carolina	3,773	3,886	-2.9%	0	0	1,979	2,260	0	0	1,794	1,626
South Carolina	4,588	4,691	-2.2%	505	478	1,543	1,659	0	0	2,541	2,554
Virginia	9,573	9,493	0.8%	5,456	5,400	823	828	0	0	3,294	3,265
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	9,013	9,193	-2.0%	0	0	614	615	0	0	8,399	8,579
Alabama	5,956	5,960	-0.1%	0	0	614	615	0	0	5,342	5,345
Kentucky	418	402	4.0%	0	0	0	0	0	0	418	402
Mississippi	1,538	1,729	-11.0%	0	0	0	0	0	0	1,538	1,729
Tennessee	1,101	1,102	-0.1%	0	0	0	0	0	0	1,101	1,102
West South Central	7,518	7,558	-0.5%	0	0	413	454	0	0	7,105	7,105
Arkansas	1,750	1,694	3.3%	0	0	0	0	0	0	1,750	1,694
Louisiana	3,757	3,806	-1.3%	0	0	0	0	0	0	3,757	3,806
Oklahoma	477	487	-2.0%	0	0	0	0	0	0	477	487
Texas	1,534	1,571	-2.4%	0	0	413	454	0	0	1,121	1,118
Mountain	1,597	1,691	-5.6%	0	0	1,114	1,244	0	0	483	447
Arizona	780	865	-9.8%	0	0	780	865	0	0	0	0
Colorado	259	324	-20.0%	0	0	259	324	0	0	0	0
Idaho	498	440	13.0%	0	0	75	54	0	0	424	386
Montana	59	61	-3.4%	0	0	0	0	0	0	59	61
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	15,928	16,145	-1.3%	1,194	1,288	10,002	10,485	0	0	4,732	4,372
California	10,499	10,753	-2.4%	0	0	9,207	9,653	0	0	1,292	1,100
Oregon	1,852	1,834	1.0%	0	0	794	832	0	0	1,058	1,002
Washington	3,576	3,558	0.5%	1,194	1,288	0	0	0	0	2,382	2,271
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	94,671	94,351	0.3%	12,307	11,480	39,438	40,558	141	131	42,785	42,181

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

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2008 - March 2018

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
2017	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2016, End of Month Stocks									
January	187,203	32,307	1,320	146,300	20,894	1,089	40,903	11,412	231
February	187,064	31,644	1,323	145,895	20,651	1,064	41,168	10,994	259
March	191,553	31,569	1,240	148,648	20,642	974	42,905	10,927	266
April	193,185	31,788	1,181	150,859	20,926	901	42,327	10,863	280
May	192,417	32,139	1,071	150,639	21,202	826	41,778	10,936	246
June	182,086	31,992	905	144,309	21,133	689	37,777	10,859	216
July	168,119	31,606	858	134,344	20,906	678	33,775	10,700	180
August	158,908	31,565	780	128,256	20,846	589	30,652	10,719	191
Sept	156,567	31,637	768	127,532	20,924	566	29,035	10,713	201
October	160,932	31,831	813	131,510	21,017	606	29,422	10,813	207
November	170,277	32,503	833	138,091	21,583	606	32,185	10,921	227
December	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
Year 2017, End of Month Stocks									
January	156,175	31,468	794	125,187	20,714	542	30,988	10,754	252
February	160,448	31,094	822	128,010	20,442	551	32,438	10,652	271
March	161,690	31,622	855	128,574	21,144	566	33,116	10,478	289
April	163,723	31,325	933	130,307	21,030	630	33,416	10,295	303
May	162,309	30,880	881	129,141	20,595	570	33,168	10,286	312
June	157,719	30,549	868	126,382	20,545	542	31,337	10,004	325
July	145,376	30,469	875	117,432	20,550	552	27,945	9,920	323
August	141,720	30,072	919	114,139	20,227	576	27,581	9,845	343
Sept	139,315	29,647	988	113,121	20,053	632	26,194	9,594	357
October	141,204	29,646	1,058	114,807	20,003	690	26,397	9,643	368
November	143,210	29,671	1,089	117,650	20,092	685	25,560	9,579	405
December	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2018, End of Month Stocks									
January	123,499	26,377	999	103,884	18,324	587	19,614	8,052	412
February	120,866	27,112	1,001	101,757	18,782	570	19,109	8,330	431
March	126,398	27,067	1,061	106,658	18,896	621	19,740	8,171	440

Notes: See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, March 2018 and 2017

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	March 2018	March 2017	Percentage Change	March 2018	March 2017	Percentage Change	March 2018	March 2017	Percentage Change
New England	702	1,155	-39.2%	3,140	4,397	-28.6%	0	0	--
Connecticut	W	W	W	1,150	1,543	-25.5%	0	0	--
Maine	0	0	--	233	512	-54.5%	0	0	--
Massachusetts	W	W	W	1,328	1,788	-25.7%	0	0	--
New Hampshire	W	W	W	247	359	-31.1%	0	0	--
Rhode Island	W	W	W	139	151	-7.5%	0	0	--
Vermont	0	0	--	42	45	-5.5%	0	0	--
Middle Atlantic	3,414	4,758	-28.2%	4,607	5,662	-18.6%	0	0	--
New Jersey	142	677	-79.1%	608	656	-7.4%	0	0	--
New York	W	W	W	3,008	3,700	-18.7%	0	0	--
Pennsylvania	W	W	W	991	1,306	-24.1%	0	0	--
East North Central	23,376	32,606	-28.3%	1,068	1,129	-5.4%	490	333	47.0%
Illinois	5,648	7,741	-27.0%	58	80	-27.2%	0	0	--
Indiana	7,728	8,974	-13.9%	104	108	-4.2%	W	W	W
Michigan	3,194	4,038	-20.9%	319	358	-11.0%	W	W	W
Ohio	3,535	7,404	-52.3%	398	374	6.4%	W	W	W
Wisconsin	3,270	4,449	-26.5%	190	209	-9.4%	W	W	W
West North Central	26,263	31,022	-15.3%	772	967	-20.2%	0	0	--
Iowa	6,162	8,233	-25.2%	91	140	-35.2%	0	0	--
Kansas	4,007	4,842	-17.2%	97	122	-20.1%	0	0	--
Minnesota	3,125	3,962	-21.1%	94	130	-28.0%	0	0	--
Missouri	8,316	9,161	-9.2%	325	368	-11.7%	0	0	--
Nebraska	2,829	3,219	-12.1%	94	120	-21.7%	0	0	--
North Dakota	W	W	W	30	32	-8.1%	0	0	--
South Dakota	W	W	W	41	54	-24.5%	0	0	--
South Atlantic	21,549	28,554	-24.5%	11,127	12,618	-11.8%	W	W	W
Delaware	W	W	W	365	411	-11.2%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,767	4,671	-19.4%	5,127	5,711	-10.2%	W	108	W
Georgia	4,835	5,610	-13.8%	748	813	-8.0%	0	0	--
Maryland	1,020	2,110	-51.7%	581	918	-36.7%	0	0	--
North Carolina	3,722	5,497	-32.3%	1,186	1,253	-5.4%	0	0	--
South Carolina	3,519	4,991	-29.5%	653	696	-6.2%	0	0	--
Virginia	798	W	W	2,329	2,671	-12.8%	0	0	--
West Virginia	W	4,182	W	138	144	-3.9%	W	W	W
East South Central	11,565	16,083	-28.1%	1,785	1,966	-9.2%	W	W	W
Alabama	2,807	3,350	-16.2%	314	332	-5.3%	0	0	--
Kentucky	5,404	8,300	-34.9%	248	244	1.8%	W	W	W
Mississippi	1,033	1,037	-0.3%	548	563	-2.7%	0	0	--
Tennessee	2,321	3,396	-31.7%	675	827	-18.4%	0	0	--
West South Central	19,366	25,839	-25.1%	1,634	1,742	-6.2%	W	W	W
Arkansas	3,233	3,203	1.0%	165	183	-9.5%	0	0	--
Louisiana	2,383	2,745	-13.2%	371	391	-5.1%	W	W	W
Oklahoma	4,070	4,324	-5.9%	95	104	-8.6%	0	0	--
Texas	9,680	15,568	-37.8%	1,003	1,064	-5.8%	0	0	--
Mountain	18,912	20,426	-7.4%	384	394	-2.4%	W	W	W
Arizona	3,132	3,522	-11.1%	136	135	0.5%	0	0	--
Colorado	4,496	4,238	6.1%	133	123	8.3%	0	0	--
Idaho	0	0	--	0	0	-12.2%	0	0	--
Montana	W	W	W	19	18	3.4%	W	W	W
Nevada	W	W	W	3	15	-81.4%	0	0	--
New Mexico	W	W	W	28	34	-19.2%	0	0	--
Utah	4,589	5,536	-17.1%	32	38	-17.6%	0	0	--
Wyoming	4,314	4,491	-3.9%	34	29	15.9%	0	0	--
Pacific Contiguous	W	W	W	317	339	-6.6%	0	0	--
California	0	0	--	151	165	-8.1%	0	0	--
Oregon	W	W	W	65	73	-10.5%	0	0	--
Washington	W	W	W	100	101	-1.2%	0	0	--
Pacific Noncontiguous	W	W	W	2,234	2,410	-7.3%	0	0	--
Alaska	0	W	W	69	228	-69.6%	0	0	--
Hawaii	W	W	W	2,165	2,182	-0.8%	0	0	--
U.S. Total	126,398	161,690	-21.8%	27,067	31,622	-14.4%	1,061	855	24.1%

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.
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, March 2018 and 2017

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**March 2018**	**March 2017**	**Percentage Change**	**March 2018**	**March 2017**	**March 2018**	**March 2017**
Coal (Thousand Tons)							
New England	702	1,155	-39.2%	W	W	W	W
Middle Atlantic	3,414	4,758	-28.2%	W	0	W	4,758
East North Central	23,376	32,606	-28.3%	15,955	19,772	7,421	12,834
West North Central	26,263	31,022	-15.3%	26,263	31,022	0	0
South Atlantic	21,549	28,554	-24.5%	19,675	25,516	1,874	3,038
East South Central	11,565	16,083	-28.1%	11,565	16,083	0	0
West South Central	19,366	25,839	-25.1%	14,255	15,631	5,110	10,208
Mountain	18,912	20,426	-7.4%	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	**126,398**	**161,690**	**-21.8%**	**106,658**	**128,574**	**19,740**	**33,116**
Petroleum Liquids (Thousand Barrels)							
New England	3,140	4,397	-28.6%	449	664	2,691	3,733
Middle Atlantic	4,607	5,662	-18.6%	1,774	2,326	2,833	3,336
East North Central	1,068	1,129	-5.4%	725	815	342	314
West North Central	772	967	-20.2%	762	942	10	25
South Atlantic	11,127	12,618	-11.8%	9,439	10,195	1,688	2,422
East South Central	1,785	1,966	-9.2%	1,712	1,893	74	73
West South Central	1,634	1,742	-6.2%	1,271	1,337	363	405
Mountain	384	394	-2.4%	352	361	32	32
Pacific Contiguous	317	339	-6.6%	214	239	102	100
Pacific Noncontiguous	2,234	2,410	-7.3%	2,197	2,372	37	38
U.S. Total	**27,067**	**31,622**	**-14.4%**	**18,896**	**21,144**	**8,171**	**10,478**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	490	333	47.0%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	108	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	**1,061**	**855**	**24.1%**	**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, 2008 - March 2018

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	67,241	90,376	4,393	162,009
2017	55,941	77,542	3,672	137,155
Year 2016, End of Month Stocks				
January	76,919	105,641	4,643	187,203
February	76,373	106,153	4,537	187,064
March	79,664	107,076	4,813	191,553
April	81,390	106,720	5,075	193,185
May	82,185	105,068	5,164	192,417
June	78,216	98,822	5,048	182,086
July	71,287	92,104	4,727	168,119
August	67,462	87,040	4,406	158,908
Sept	65,962	86,411	4,194	156,567
October	67,250	89,666	4,016	160,932
November	70,537	95,428	4,313	170,277
December	67,241	90,376	4,393	162,009
Year 2017, End of Month Stocks				
January	65,806	86,034	4,335	156,175
February	67,754	88,270	4,424	160,448
March	67,740	89,299	4,651	161,690
April	68,129	90,588	5,005	163,723
May	68,251	88,854	5,204	162,309
June	66,475	86,543	4,701	157,719
July	60,498	80,598	4,281	145,376
August	59,134	77,615	4,972	141,720
Sept	58,380	76,990	3,945	139,315
October	59,036	78,648	3,519	141,204
November	59,342	79,787	4,081	143,210
December	55,941	77,542	3,672	137,155
Year 2018, End of Month Stocks				
January	48,446	72,024	3,028	123,499
February	48,199	69,758	2,909	120,866
March	49,556	73,629	3,213	126,398

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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), 2008 - March 2018

	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												
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,516,272	650,770	2.11	40.64	1.34	93.8	101,810	16,807	9.39	56.89	0.49	68.1
2017	12,142,749	634,118	2.08	39.75	1.29	93.4	94,007	15,619	11.82	71.15	0.49	65.4
Year 2016												
January	1,035,315	54,397	2.12	40.35	1.32	85.5	9,096	1,519	7.96	47.76	0.48	56.2
February	981,062	50,919	2.11	40.62	1.40	97.9	8,023	1,323	7.00	42.51	0.47	52.0
March	896,983	45,720	2.17	42.66	1.46	110.7	6,912	1,140	6.92	41.99	0.45	68.2
April	807,001	41,015	2.16	42.44	1.45	101.8	8,592	1,414	8.37	50.85	0.42	88.7
May	871,890	44,729	2.16	42.13	1.44	96.6	9,231	1,536	9.82	59.07	0.45	82.6
June	1,022,903	53,300	2.10	40.25	1.35	82.6	7,612	1,262	10.41	62.76	0.50	67.3
July	1,155,747	60,545	2.11	40.30	1.28	80.1	9,030	1,466	11.83	72.83	0.51	59.3
August	1,254,473	65,150	2.11	40.61	1.32	86.6	9,118	1,492	9.46	57.81	0.51	62.6
Sept	1,156,705	60,441	2.12	40.58	1.30	95.0	8,154	1,342	9.40	57.14	0.51	76.1
October	1,141,983	59,814	2.07	39.59	1.28	107.2	8,387	1,390	10.01	60.48	0.54	77.1
November	1,097,110	57,377	2.08	39.83	1.29	116.3	9,715	1,599	10.09	61.31	0.50	87.0
December	1,095,100	57,362	2.08	39.64	1.32	86.4	7,939	1,323	10.78	64.72	0.48	60.9
Year 2017												
January	1,099,948	57,463	2.09	40.08	1.26	88.5	9,304	1,546	11.91	71.72	0.46	70.8
February	997,916	52,098	2.07	39.58	1.30	106.1	6,122	1,015	11.61	70.06	0.49	59.5
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.4
April	893,611	46,168	2.11	40.85	1.34	101.6	6,223	1,033	11.59	69.85	0.48	62.4
May	948,234	49,206	2.13	41.01	1.33	94.5	6,485	1,082	W	W	0.48	56.7
June	1,032,209	53,498	2.11	40.71	1.31	89.0	7,209	1,196	W	W	0.47	63.4
July	1,084,862	56,876	2.09	39.82	1.22	80.1	6,490	1,086	W	W	0.48	54.9
August	1,174,972	61,268	2.08	39.85	1.29	91.4	6,872	1,137	W	W	0.47	61.1
Sept	1,005,155	52,845	2.03	38.55	1.24	94.6	6,394	1,061	W	W	0.49	57.6
October	990,301	51,848	2.03	38.86	1.27	100.9	7,328	1,212	11.87	71.73	0.52	64.7
November	976,444	51,520	2.04	38.67	1.26	98.7	9,313	1,541	12.29	74.29	0.47	85.9
December	972,098	51,155	2.05	38.91	1.27	85.8	10,277	1,693	13.95	84.69	0.47	49.9
Year 2018												
January	951,773	50,275	2.07	39.17	1.24	76.2	29,698	4,948	13.68	82.50	0.48	51.4
February	850,365	44,662	2.07	39.43	1.26	95.0	10,931	1,797	12.60	76.83	0.47	117.8
March	940,506	48,770	2.04	39.42	1.33	106.7	7,265	1,210	W	W	0.42	76.8
Year to Date												
2016	2,913,361	151,036	2.13	41.14	1.39	96.3	24,031	3,981	7.34	44.35	0.47	57.5
2017	3,064,862	159,734	2.08	39.95	1.30	97.4	27,416	4,579	11.72	70.15	0.51	80.3
2018	2,742,645	143,707	2.06	39.34	1.28	90.6	47,894	7,955	13.38	80.84	0.47	62.5
Rolling 12 Months Ending in March												
2017	12,667,774	659,469	2.10	40.36	1.32	94.1	105,195	17,404	10.46	63.24	0.49	74.2
2018	11,820,532	618,090	2.07	39.60	1.28	91.8	114,485	18,995	W	W	0.48	61.4

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

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

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - March 2018 (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												
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
2017	92,837	3,309	W	W	5.56	77.6	8,320,427	8,050,520	3.39	3.51	76.0	W
Year 2016												
January	9,640	341	1.38	38.93	5.68	79.8	826,179	798,251	3.02	3.13	89.9	2.52
February	11,273	408	1.30	35.80	5.53	96.1	736,278	711,506	2.70	2.79	89.6	2.36
March	10,313	363	1.41	40.14	5.33	81.1	797,607	771,918	2.23	2.30	90.4	2.21
April	10,308	369	1.35	37.75	5.56	81.0	773,337	748,523	2.42	2.50	90.9	2.31
May	8,554	307	1.32	36.76	5.35	65.8	857,644	830,896	2.39	2.47	91.1	2.31
June	6,895	240	1.41	40.48	4.67	50.1	1,020,410	988,673	2.67	2.75	91.4	2.39
July	10,032	355	1.47	41.45	5.14	70.8	1,189,145	1,151,122	2.97	3.07	91.3	2.55
August	11,033	398	1.75	48.48	5.42	76.5	1,205,876	1,163,920	2.95	3.06	91.4	2.52
Sept	10,741	381	2.07	58.30	5.17	84.6	968,648	935,630	3.07	3.18	91.1	2.55
October	8,844	317	1.98	55.43	5.69	92.5	795,915	770,111	3.13	3.23	90.3	2.51
November	9,365	333	2.26	63.59	5.69	82.0	718,522	695,273	3.02	3.12	90.4	2.47
December	9,945	355	2.07	57.94	5.43	82.3	729,545	705,358	3.96	4.10	89.9	2.82
Year 2017												
January	7,058	251	2.14	60.16	5.67	58.6	605,951	585,551	4.13	4.28	76.5	2.82
February	7,593	271	2.00	56.03	5.85	83.2	532,100	514,989	3.58	3.70	77.4	2.60
March	8,628	309	2.06	57.51	5.29	86.5	616,876	597,207	3.36	3.47	75.4	2.62
April	5,835	208	2.00	55.96	5.34	93.7	576,199	557,617	3.38	3.49	76.3	2.62
May	6,776	242	2.05	57.46	5.57	61.1	646,012	625,854	3.49	3.60	76.9	W
June	8,657	308	W	W	5.55	71.2	762,486	737,993	3.30	3.41	76.5	W
July	8,498	302	W	W	5.50	73.3	928,993	898,085	3.22	3.33	75.4	W
August	7,972	284	W	W	5.47	77.5	900,262	870,598	3.16	3.27	75.9	W
Sept	7,915	284	W	W	5.43	84.2	759,416	733,714	3.20	3.31	75.6	W
October	8,347	297	W	W	5.61	98.3	692,139	670,324	3.16	3.27	75.4	W
November	7,469	266	W	W	5.67	78.7	600,304	581,428	3.36	3.47	75.1	W
December	8,088	287	2.17	60.99	5.74	82.6	699,688	677,158	3.63	3.75	75.9	2.75
Year 2018												
January	7,009	248	2.38	67.41	5.31	60.1	778,041	753,163	5.03	5.19	82.0	3.50
February	7,769	277	2.43	68.09	5.49	83.0	688,537	667,090	3.61	3.72	85.6	2.79
March	7,841	281	2.54	70.89	5.54	99.3	748,917	724,656	3.18	3.29	84.6	W
Year to Date												
2016	31,226	1,112	1.36	38.18	5.51	85.6	2,360,064	2,281,675	2.65	2.74	90.0	2.37
2017	23,280	831	2.06	57.83	5.59	74.8	1,754,928	1,697,747	3.69	3.82	76.4	2.68
2018	22,619	806	2.45	68.86	5.45	78.3	2,215,495	2,144,908	3.97	4.10	83.9	2.97
Rolling 12 Months Ending in March												
2017	108,996	3,885	1.82	51.09	5.41	75.2	10,013,969	9,687,252	3.07	3.17	88.0	2.54
2018	92,175	3,284	W	W	5.52	78.5	8,780,994	8,497,681	3.47	3.59	77.8	W

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - March 2018

	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												
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	8,952,220	464,163	2.12	40.91	1.17	95.1	68,548	11,319	11.56	70.00	0.47	71.7
Year 2016												
January	750,914	39,064	2.17	41.71	1.18	85.5	6,190	1,022	7.88	47.74	0.44	58.8
February	722,024	37,129	2.16	41.95	1.23	98.2	5,814	955	6.92	42.16	0.41	64.1
March	685,422	34,609	2.19	43.49	1.34	110.9	5,223	851	6.69	41.07	0.40	77.5
April	612,742	30,953	2.19	43.39	1.31	107.4	6,897	1,126	8.35	51.19	0.37	106.4
May	655,166	33,408	2.17	42.60	1.25	98.5	6,742	1,114	9.12	55.16	0.40	91.7
June	775,536	39,900	2.15	41.79	1.24	85.9	5,511	908	10.51	63.80	0.44	70.9
July	849,005	43,981	2.17	41.99	1.15	81.1	7,117	1,142	11.54	71.91	0.52	66.7
August	925,332	47,610	2.17	42.19	1.19	88.3	6,737	1,090	9.15	56.57	0.51	66.2
Sept	851,137	43,822	2.18	42.34	1.18	97.6	5,514	896	9.00	55.39	0.49	79.2
October	842,651	43,693	2.12	40.99	1.16	110.5	5,205	851	9.80	59.94	0.52	73.4
November	805,502	41,615	2.13	41.25	1.20	117.8	6,780	1,106	9.80	60.07	0.48	88.2
December	781,447	40,423	2.13	41.17	1.21	85.4	5,565	925	10.71	64.43	0.44	65.2
Year 2017												
January	791,895	41,154	2.14	41.26	1.14	87.5	6,498	1,069	11.09	67.38	0.44	72.7
February	732,712	38,088	2.11	40.63	1.20	106.6	4,563	754	11.53	69.80	0.46	64.8
March	702,185	36,293	2.13	41.15	1.21	101.0	10,468	1,759	11.58	68.94	0.53	130.7
April	646,292	33,094	2.15	41.91	1.22	104.4	4,679	774	11.38	68.84	0.46	65.0
May	698,108	35,802	2.16	42.16	1.22	95.2	4,612	764	11.38	68.72	0.45	58.3
June	781,557	40,089	2.13	41.60	1.20	91.1	5,560	915	10.86	66.00	0.47	70.7
July	816,276	42,290	2.12	40.87	1.11	80.9	4,656	774	10.91	65.61	0.45	59.6
August	884,867	45,745	2.11	40.89	1.19	92.8	5,112	839	11.08	67.54	0.46	65.6
Sept	736,582	38,557	2.08	39.78	1.10	97.2	4,752	779	11.75	71.65	0.48	62.0
October	728,591	37,915	2.09	40.19	1.16	103.9	4,858	796	11.98	73.15	0.49	59.6
November	721,520	37,867	2.12	40.30	1.13	104.9	6,681	1,094	12.02	73.45	0.41	92.0
December	711,634	37,270	2.11	40.29	1.11	88.8	6,108	1,002	12.84	78.22	0.42	60.4
Year 2018												
January	690,227	36,292	2.08	39.65	1.11	75.6	12,569	2,096	13.91	83.48	0.43	48.0
February	638,278	33,348	2.10	40.24	1.16	97.5	8,008	1,303	12.43	76.46	0.46	118.0
March	700,041	36,379	2.10	40.33	1.17	111.9	5,017	827	13.19	79.98	0.36	77.4
Year to Date												
2016	2,158,360	110,802	2.17	42.35	1.25	96.6	17,227	2,828	7.20	43.84	0.42	65.3
2017	2,226,792	115,534	2.13	41.02	1.18	97.3	21,529	3,582	11.42	68.65	0.50	90.0
2018	2,028,545	106,019	2.09	40.07	1.15	92.4	25,594	4,227	13.30	80.61	0.43	64.6
Rolling 12 Months Ending in March												
2017	9,325,310	480,939	2.15	41.70	1.20	95.6	77,596	12,739	10.22	62.28	0.47	80.3
2018	8,753,973	454,648	2.11	40.68	1.16	94.0	72,614	11,963	12.21	74.16	0.44	65.2

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - March 2018 (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												
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	3,990,184	3,861,856	3.65	3.77	80.5	2.63
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,925	382,074	3.27	3.38	97.1	2.57
February	9,837	356	1.13	31.18	5.53	131.0	356,803	344,669	2.96	3.06	96.8	2.43
March	8,402	294	1.21	34.47	5.28	103.8	383,424	371,055	2.53	2.61	97.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,155	355,539	2.72	2.80	97.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	412,465	399,342	2.68	2.77	97.4	2.40
June	6,325	220	1.33	38.34	4.59	71.4	501,782	485,899	2.88	2.97	96.9	2.46
July	9,587	340	1.43	40.50	5.10	104.6	571,042	552,828	3.20	3.31	96.5	2.62
August	9,306	335	1.62	45.01	5.45	99.4	571,170	551,024	3.23	3.34	96.9	2.59
Sept	9,059	320	2.00	56.51	5.12	102.8	457,872	442,147	3.43	3.55	97.3	2.64
October	7,088	253	1.87	52.47	5.71	146.9	370,666	358,541	3.53	3.65	96.7	2.58
November	7,871	279	2.22	62.85	5.74	116.3	339,777	328,019	3.36	3.48	97.4	2.54
December	8,017	284	1.99	56.17	5.39	108.8	348,255	336,401	4.15	4.30	97.0	2.78
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,262	278,519	4.35	4.50	83.5	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,635	242,633	3.83	3.96	84.6	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,754	288,236	3.56	3.67	81.6	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,420	272,348	3.52	3.63	82.6	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,906	314,002	3.71	3.82	83.1	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,349	356,694	3.57	3.69	80.8	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,546	431,672	3.48	3.60	77.3	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,247	418,089	3.46	3.57	78.2	2.58
Sept	7,658	274	2.12	59.07	5.42	130.2	362,507	350,492	3.58	3.70	78.8	2.61
October	7,454	265	2.37	66.84	5.58	154.2	329,450	319,249	3.59	3.70	79.5	2.60
November	7,084	252	2.52	70.93	5.66	107.1	283,335	274,515	3.66	3.78	80.6	2.61
December	8,088	287	2.17	60.99	5.74	123.5	325,771	315,406	3.77	3.90	80.3	2.69
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	383,110	370,950	5.14	5.31	87.4	3.29
February	7,769	277	2.43	68.09	5.49	117.9	322,741	312,845	3.84	3.96	90.9	2.76
March	7,841	281	2.54	70.89	5.54	141.5	353,555	342,238	3.50	3.61	90.7	2.61
Year to Date												
2016	26,174	927	1.16	32.76	5.49	108.2	1,135,152	1,097,799	2.92	3.02	97.1	2.44
2017	23,280	831	2.06	57.83	5.59	113.2	836,651	809,389	3.91	4.04	83.2	2.67
2018	22,619	806	2.45	68.86	5.45	110.3	1,059,407	1,026,033	4.20	4.33	89.5	2.89
Rolling 12 Months Ending in March												
2017	96,811	3,442	1.75	49.19	5.40	104.0	4,776,836	4,619,128	3.34	3.45	94.3	2.59
2018	89,819	3,199	2.25	63.11	5.52	116.8	4,212,939	4,078,500	3.74	3.86	82.1	2.69

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Notes:
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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - March 2018

	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												
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.93	58.56	0.48	75.1
2017	3,006,924	161,228	1.91	35.67	1.64	91.2	23,608	4,003	12.64	74.53	0.46	69.1
Year 2016												
January	264,906	14,431	1.94	35.56	1.72	87.7	2,670	459	7.86	45.79	0.42	64.8
February	241,497	12,970	1.92	35.76	1.91	101.0	1,867	313	6.94	41.57	0.47	42.4
March	192,217	10,216	2.04	38.36	1.89	117.0	1,484	256	W	W	0.47	66.8
April	178,203	9,323	1.99	38.00	1.97	90.2	1,473	252	W	W	0.50	74.9
May	200,347	10,560	2.08	39.52	2.05	94.7	2,331	396	11.84	69.75	0.48	98.3
June	228,760	12,535	1.87	34.19	1.72	74.5	1,842	312	10.09	59.54	0.47	82.9
July	288,156	15,689	1.89	34.68	1.67	78.4	1,828	310	12.96	76.40	0.45	58.9
August	309,421	16,607	1.89	35.21	1.71	83.3	2,262	383	10.26	60.58	0.48	69.4
Sept	289,363	15,859	1.91	34.96	1.65	90.6	2,478	420	10.16	59.98	0.49	92.3
October	280,681	15,236	1.88	34.66	1.62	101.0	2,885	492	10.39	61.12	0.49	111.5
November	276,435	15,051	1.91	35.16	1.53	117.1	2,652	446	10.79	64.16	0.47	115.5
December	297,372	16,171	1.91	35.08	1.60	91.6	2,202	370	W	W	0.50	65.7
Year 2017												
January	293,070	15,606	1.93	36.35	1.59	94.6	2,679	456	13.98	82.08	0.47	92.8
February	250,099	13,304	1.90	35.74	1.60	108.7	1,438	241	W	W	0.50	63.4
March	247,658	13,058	1.93	36.69	1.75	101.4	1,344	231	12.02	69.90	0.44	80.3
April	231,929	12,350	1.97	37.09	1.66	97.9	1,383	233	W	W	0.44	78.7
May	234,471	12,642	1.99	36.90	1.67	95.0	1,718	293	W	W	0.45	71.9
June	235,473	12,689	2.00	37.14	1.68	85.0	1,507	258	W	W	0.42	62.6
July	253,594	13,865	1.97	36.04	1.55	78.8	1,739	297	W	W	0.48	57.2
August	274,367	14,784	1.94	35.96	1.64	88.9	1,649	280	W	W	0.43	69.4
Sept	254,384	13,609	1.84	34.37	1.64	90.0	1,491	258	W	W	0.42	59.9
October	246,724	13,227	1.83	34.24	1.61	96.5	2,321	393	11.66	68.89	0.50	108.0
November	240,378	12,958	1.79	33.17	1.64	87.0	2,432	415	13.07	76.69	0.56	103.6
December	244,777	13,136	1.84	34.33	1.69	80.0	3,906	648	15.88	95.71	0.43	46.4
Year 2018												
January	246,173	13,243	2.00	37.17	1.62	79.5	16,721	2,787	13.51	81.73	0.48	59.9
February	198,229	10,651	1.94	36.09	1.58	91.7	2,735	465	13.30	78.46	0.44	202.7
March	225,377	11,669	1.85	35.78	1.83	97.5	2,014	345	W	W	0.43	111.7
Year to Date												
2016	698,620	37,616	1.96	36.39	1.83	98.9	6,021	1,028	7.48	43.92	0.45	56.2
2017	790,828	41,969	1.92	36.26	1.64	100.9	5,461	929	12.93	76.03	0.48	80.1
2018	669,780	35,563	1.93	36.39	1.68	88.4	21,471	3,596	13.53	81.32	0.47	69.3
Rolling 12 Months Ending in March												
2017	3,139,566	169,001	1.92	35.68	1.69	92.4	25,416	4,311	W	W	0.48	82.9
2018	2,885,877	154,822	1.91	35.67	1.65	88.2	39,618	6,671	W	W	0.47	67.9

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - March 2018 (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												
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	W
2017	0	0	--	--	--	0.0	3,663,287	3,542,886	3.07	3.18	79.5	2.52
Year 2016												
January	1,305	49	W	W	5.70	182.6	366,954	353,940	2.80	2.91	93.1	W
February	1,314	47	W	W	5.44	97.1	322,866	312,018	2.43	2.52	93.5	W
March	1,337	48	W	W	5.37	65.3	353,542	341,974	1.89	1.95	94.0	W
April	1,203	44	W	W	5.30	88.5	345,599	334,192	2.07	2.14	94.3	W
May	506	18	W	W	5.28	30.6	384,972	373,040	2.04	2.11	94.6	W
June	348	12	W	W	5.32	20.5	457,044	442,942	2.41	2.49	94.4	W
July	223	8	W	W	5.67	12.1	552,956	535,139	2.66	2.75	94.4	W
August	1,510	55	W	W	5.24	77.3	569,120	549,584	2.62	2.71	94.3	W
Sept	1,483	53	W	W	5.43	90.7	448,820	433,556	2.61	2.70	94.1	W
October	1,549	56	W	W	5.59	78.5	362,466	350,675	2.60	2.69	94.0	W
November	1,294	47	W	W	5.43	83.4	313,867	304,227	2.59	2.67	93.5	W
December	1,501	55	W	W	5.50	84.2	313,521	303,233	3.83	3.95	93.6	W
Year 2017												
January	0	0	--	--	--	0.0	259,636	250,896	3.97	4.11	79.9	2.84
February	0	0	--	--	--	0.0	227,496	220,081	3.33	3.44	80.9	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	78.3	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.19	3.30	79.4	W
May	0	0	--	--	--	0.0	269,235	260,637	3.19	3.29	79.4	W
June	0	0	--	--	--	0.0	339,166	328,064	2.92	3.02	79.5	W
July	0	0	--	--	--	0.0	423,924	409,779	2.86	2.96	79.4	W
August	0	0	--	--	--	0.0	412,138	398,444	2.76	2.85	79.9	W
Sept	0	0	--	--	--	0.0	342,641	330,729	2.68	2.78	79.2	W
October	0	0	--	--	--	0.0	310,113	300,091	2.60	2.69	79.3	2.26
November	0	0	--	--	--	0.0	261,523	253,222	3.02	3.12	78.6	2.41
December	0	0	--	--	--	0.0	312,295	302,115	3.57	3.69	80.5	2.82
Year 2018												
January	0	0	--	--	--	0.0	325,769	315,170	5.25	5.42	85.1	3.96
February	0	0	--	--	--	0.0	305,540	295,788	3.34	3.45	90.7	2.77
March	0	0	--	--	--	0.0	334,931	323,699	2.85	2.95	88.7	W
Year to Date												
2016	3,956	144	2.50	68.42	5.50	96.8	1,043,363	1,007,931	2.38	2.46	93.5	W
2017	0	0	--	--	--	0.0	750,801	726,203	3.51	3.62	79.7	2.65
2018	0	0	--	--	--	0.0	966,240	934,657	3.82	3.95	88.1	3.08
Rolling 12 Months Ending in March												
2017	9,617	348	W	W	5.41	49.9	4,499,167	4,352,790	2.74	2.83	91.4	W
2018	0	0	--	--	--	0.0	3,878,726	3,751,340	3.17	3.27	81.5	W

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2008 - March 2018

	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												
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	W	W	2.99	4.0	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.2	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.7	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.9	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.2	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.5	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.6	0	0	--	--	--	0.0
December	214	9	W	W	3.05	12.5	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.4	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.4	0	0	--	--	--	0.0
March	104	5	W	W	3.02	7.8	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.2	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.6	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	4	0	W	W	2.77	0.3	0	0	--	--	--	0.0
Sept	72	3	W	W	2.96	6.7	0	0	--	--	--	0.0
October	35	2	W	W	2.96	3.5	0	0	--	--	--	0.0
November	13	1	W	W	3.04	1.2	0	0	--	--	--	0.0
December	89	4	W	W	3.01	6.4	0	0	--	--	--	0.0
Year 2018												
January	95	4	W	W	3.11	6.0	0	0	--	--	--	0.0
February	31	1	W	W	3.19	2.6	0	0	--	--	--	0.0
March	5	0	W	W	3.16	0.4	0	0	--	--	--	0.0
Year to Date												
2016	425	19	W	W	2.92	8.4	0	0	--	--	--	0.0
2017	307	13	W	W	2.99	7.5	0	0	--	--	--	0.0
2018	130	6	W	W	3.13	3.3	0	0	--	--	--	0.0
Rolling 12 Months Ending in March												
2017	1,169	51	W	W	3.06	8.1	0	0	--	--	--	0.0
2018	371	16	W	W	3.04	2.7	0	0	--	--	--	0.0

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2008 - March 2018 (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												
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.1	W
2017	0	0	--	--	--	0.0	7,841	7,593	W	W	6.3	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.3	W
February	0	0	--	--	--	0.0	488	477	W	W	4.9	W
March	0	0	--	--	--	0.0	620	610	W	W	6.2	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.1	W
June	0	0	--	--	--	0.0	599	585	W	W	5.3	W
July	0	0	--	--	--	0.0	691	667	W	W	5.0	W
August	0	0	--	--	--	0.0	802	765	W	W	5.6	W
Sept	0	0	--	--	--	0.0	610	591	W	W	5.3	W
October	0	0	--	--	--	0.0	598	575	W	W	5.9	W
November	0	0	--	--	--	0.0	613	589	W	W	6.8	W
December	0	0	--	--	--	0.0	568	549	W	W	5.3	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.6	W
February	0	0	--	--	--	0.0	646	624	W	W	6.3	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.7	W
May	0	0	--	--	--	0.0	497	483	W	W	5.4	W
June	0	0	--	--	--	0.0	615	595	W	W	6.0	W
July	0	0	--	--	--	0.0	636	613	W	W	5.7	W
August	0	0	--	--	--	0.0	809	778	W	W	7.4	W
Sept	0	0	--	--	--	0.0	707	685	W	W	6.9	W
October	0	0	--	--	--	0.0	605	588	W	W	6.0	W
November	0	0	--	--	--	0.0	749	725	W	W	7.5	W
December	0	0	--	--	--	0.0	734	711	W	W	6.6	W
Year 2018												
January	0	0	--	--	--	0.0	844	818	W	W	7.2	W
February	0	0	--	--	--	0.0	709	688	W	W	6.7	W
March	0	0	--	--	--	0.0	768	746	W	W	7.2	W
Year to Date												
2016	0	0	--	--	--	0.0	2,349	2,290	W	W	7.6	W
2017	0	0	--	--	--	0.0	1,988	1,924	W	W	6.1	W
2018	0	0	--	--	--	0.0	2,321	2,252	W	W	7.0	W
Rolling 12 Months Ending in March												
2017	0	0	--	--	--	0.0	7,644	7,400	W	W	5.7	W
2018	0	0	--	--	--	0.0	8,174	7,920	W	W	6.6	W

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - March 2018

	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												
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	W	W	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	183,058	8,703	W	W	1.29	64.8	1,850	297	11.18	69.57	1.42	16.2
Year 2016												
January	19,357	897	W	W	1.36	64.2	237	38	11.34	71.47	1.49	18.7
February	17,418	814	W	W	1.42	63.5	342	55	8.70	53.76	1.16	19.8
March	19,181	888	W	W	1.29	69.7	205	33	W	W	1.18	18.5
April	16,048	739	W	W	1.43	68.7	222	36	W	W	1.36	20.8
May	16,376	761	2.67	57.42	1.39	64.6	158	26	11.79	72.81	1.49	11.7
June	18,607	865	2.66	57.25	1.25	69.6	259	42	10.38	64.15	1.45	21.3
July	18,586	875	2.64	56.18	1.23	66.2	85	14	11.10	68.65	1.14	7.1
August	19,629	929	W	W	1.16	71.9	119	19	11.84	73.14	1.11	12.4
Sept	16,052	753	W	W	1.20	65.1	162	27	11.67	71.25	1.12	16.5
October	18,491	879	W	W	1.25	78.1	297	48	10.34	63.78	1.20	25.7
November	14,936	701	W	W	1.27	64.1	283	47	10.57	63.80	1.30	30.7
December	16,067	759	W	W	1.33	59.3	172	28	W	W	1.12	18.0
Year 2017												
January	14,872	698	W	W	1.31	54.1	128	21	11.64	72.27	1.06	12.7
February	15,014	702	W	W	1.10	64.5	121	19	W	W	1.36	16.3
March	17,051	819	W	W	1.28	69.8	178	29	10.66	66.36	1.22	21.7
April	15,389	724	W	W	1.17	67.9	160	26	W	W	1.27	17.8
May	15,645	762	W	W	1.10	69.4	155	25	W	W	1.21	16.0
June	15,163	720	W	W	1.32	65.8	142	23	W	W	1.11	15.0
July	14,992	721	2.47	51.34	1.23	68.8	95	15	W	W	1.30	12.2
August	15,734	738	W	W	1.30	69.3	110	18	W	W	1.55	12.6
Sept	14,117	677	W	W	1.10	65.7	151	24	W	W	1.51	19.3
October	14,951	704	W	W	1.30	61.3	149	24	11.43	71.09	1.58	16.4
November	14,533	694	W	W	1.38	60.8	199	32	11.67	72.03	1.71	19.3
December	15,598	744	W	W	1.87	63.1	263	42	11.14	69.14	1.79	16.1
Year 2018												
January	15,278	735	W	W	1.12	57.9	408	65	12.64	79.32	1.32	16.1
February	13,828	662	W	W	1.26	58.5	187	30	11.38	71.32	1.20	20.2
March	15,083	722	W	W	1.24	61.8	234	38	W	W	1.32	23.5
Year to Date												
2016	55,955	2,599	W	W	1.35	65.7	783	126	9.51	59.13	1.26	19.1
2017	46,937	2,218	W	W	1.23	62.5	426	68	11.21	69.80	1.22	16.6
2018	44,190	2,119	W	W	1.20	59.4	829	132	12.35	77.29	1.29	18.6
Rolling 12 Months Ending in March												
2017	201,730	9,478	W	W	1.26	66.2	2,184	355	W	W	1.26	17.7
2018	180,311	8,604	W	W	1.28	64.0	2,253	361	W	W	1.42	17.0

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PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - March 2018 (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												
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.2	744,034	721,358	W	W	59.6	W
2017	2,356	85	W	W	5.84	8.7	659,116	638,186	W	W	52.1	W
Year 2016												
January	400	15	W	W	5.94	15.3	63,059	61,034	W	W	59.0	W
February	122	4	W	W	6.10	4.3	56,120	54,342	W	W	57.2	W
March	574	21	W	W	5.88	23.8	60,020	58,279	W	W	58.9	W
April	669	25	W	W	5.81	31.0	60,005	58,224	W	W	61.3	W
May	206	8	W	W	5.64	7.0	59,608	57,927	W	W	59.3	W
June	222	8	W	W	5.94	7.0	60,985	59,247	W	W	58.7	W
July	222	8	W	W	5.94	7.0	64,456	62,488	W	W	58.3	W
August	217	8	W	W	5.81	7.2	64,784	62,548	W	W	57.7	W
Sept	200	8	W	W	5.64	9.6	61,346	59,335	W	W	58.7	W
October	207	8	W	W	5.66	7.9	62,185	60,320	W	W	60.7	W
November	200	8	W	W	5.47	7.0	64,265	62,438	W	W	63.4	W
December	427	16	W	W	5.99	15.4	67,201	65,176	W	W	62.7	W
Year 2017												
January	0	0	--	--	--	0.0	57,392	55,497	W	W	52.1	W
February	0	0	--	--	--	0.0	53,322	51,652	W	W	53.4	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	51.6	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	52.2	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	51.3	W
June	271	9	W	W	5.75	9.5	54,356	52,640	W	W	52.5	W
July	253	9	W	W	5.85	10.1	57,887	56,022	W	W	52.4	W
August	296	11	W	W	5.85	12.0	55,068	53,287	W	W	51.8	W
Sept	257	9	W	W	5.85	11.9	53,561	51,809	W	W	52.7	W
October	893	32	W	W	5.85	38.1	51,971	50,395	W	W	50.5	W
November	386	14	W	W	5.85	17.6	54,697	52,966	W	W	52.0	W
December	0	0	--	--	--	0.0	60,888	58,925	W	W	52.1	W
Year 2018												
January	0	0	--	--	--	0.0	68,317	66,225	W	W	58.9	W
February	0	0	--	--	--	0.0	59,546	57,769	W	W	58.2	W
March	0	0	--	--	--	0.0	59,663	57,973	W	W	55.8	W
Year to Date												
2016	1,096	40	W	W	5.93	14.0	179,199	173,655	W	W	58.4	W
2017	0	0	--	--	--	0.0	165,488	160,231	W	W	52.3	W
2018	0	0	--	--	--	0.0	187,527	181,967	W	W	57.6	W
Rolling 12 Months Ending in March												
2017	2,568	95	W	W	5.79	8.3	730,323	707,934	W	W	58.1	W
2018	2,356	85	W	W	5.84	9.1	681,155	659,922	W	W	53.4	W

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Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, March 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	6	8	-28.0%	0	0	6	8	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	6	8	-28.0%	0	0	6	8	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	1,755	1,843	-4.8%	0	0	1,744	1,807	0	0	11	36
New Jersey	56	61	-8.0%	0	0	56	61	0	0	0	0
New York	12	25	-51.0%	0	0	12	0	0	0	0	25
Pennsylvania	1,686	1,757	-4.0%	0	0	1,675	1,746	0	0	11	11
East North Central	11,617	11,102	4.6%	6,690	6,305	4,755	4,601	0	0	172	196
Illinois	3,967	3,600	10.0%	863	764	2,932	2,642	0	0	171	193
Indiana	2,613	2,389	9.4%	2,446	2,250	167	139	0	0	0	0
Michigan	1,148	1,418	-19.0%	1,148	1,415	0	0	0	0	1	3
Ohio	2,130	2,371	-10.0%	474	551	1,656	1,820	0	0	0	0
Wisconsin	1,759	1,325	33.0%	1,759	1,325	0	0	0	0	0	0
West North Central	8,980	9,051	-0.8%	8,719	8,741	0	0	0	5	260	305
Iowa	1,044	997	4.8%	858	804	0	0	0	0	186	192
Kansas	873	826	5.6%	873	826	0	0	0	0	0	0
Minnesota	1,238	1,019	21.0%	1,238	953	0	0	0	0	0	66
Missouri	2,580	3,163	-18.0%	2,580	3,159	0	0	0	5	0	0
Nebraska	999	1,010	-1.0%	925	962	0	0	0	0	74	47
North Dakota	2,065	1,952	5.8%	2,065	1,952	0	0	0	0	0	0
South Dakota	180	84	115.0%	180	84	0	0	0	0	0	0
South Atlantic	6,529	7,219	-9.6%	5,553	6,389	889	745	0	0	87	85
Delaware	0	59	-100.0%	0	0	0	59	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	783	1,228	-36.0%	777	1,217	0	0	0	0	6	11
Georgia	986	1,464	-33.0%	975	1,457	0	0	0	0	11	7
Maryland	308	314	-2.1%	0	0	290	294	0	0	17	20
North Carolina	1,107	1,117	-0.9%	1,079	1,074	3	11	0	0	25	32
South Carolina	485	588	-17.0%	482	588	0	0	0	0	3	0
Virginia	410	438	-6.4%	353	399	33	23	0	0	24	16
West Virginia	2,451	2,011	22.0%	1,888	1,654	563	358	0	0	0	0
East South Central	5,158	4,789	7.7%	4,904	4,413	178	299	0	0	76	78
Alabama	1,469	1,232	19.0%	1,469	1,232	0	0	0	0	0	0
Kentucky	2,997	2,808	6.7%	2,997	2,808	0	0	0	0	0	0
Mississippi	299	335	-11.0%	121	36	178	299	0	0	0	0
Tennessee	394	414	-4.9%	318	336	0	0	0	0	76	78
West South Central	7,223	8,424	-14.0%	4,196	3,603	2,986	4,768	0	0	41	53
Arkansas	1,110	634	75.0%	868	626	232	0	0	0	10	8
Louisiana	447	422	5.8%	266	160	181	263	0	0	0	0
Oklahoma	934	780	20.0%	785	637	118	98	0	0	30	45
Texas	4,732	6,588	-28.0%	2,276	2,180	2,456	4,408	0	0	0	0
Mountain	7,246	7,507	-3.5%	6,299	6,786	947	721	0	0	0	0
Arizona	1,516	1,538	-1.4%	1,516	1,538	0	0	0	0	0	0
Colorado	1,408	1,380	2.0%	1,408	1,380	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	826	600	38.0%	24	25	802	574	0	0	0	0
Nevada	60	64	-6.7%	0	0	60	64	0	0	0	0
New Mexico	470	1,068	-56.0%	470	1,068	0	0	0	0	0	0
Utah	964	963	0.1%	927	927	37	36	0	0	0	0
Wyoming	2,001	1,894	5.6%	1,954	1,848	47	47	0	0	0	0
Pacific Contiguous	180	156	16.0%	0	42	104	49	0	0	76	66
California	76	66	16.0%	0	0	0	0	0	0	76	66
Oregon	0	42	-100.0%	0	42	0	0	0	0	0	0
Washington	104	49	115.0%	0	0	104	49	0	0	0	0
Pacific Noncontiguous	77	74	3.1%	17	15	59	60	0	0	0	0
Alaska	17	15	19.0%	17	15	0	0	0	0	0	0
Hawaii	59	60	-0.8%	0	0	59	60	0	0	0	0
U.S. Total	48,770	50,174	-2.8%	36,379	36,293	11,669	13,058	0	5	722	819

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	68	157	-57.0%	45	45	23	112	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	23	26	-11.0%	0	0	23	26	0	0	0	0
Massachusetts	0	87	-100.0%	0	0	0	87	0	0	0	0
New Hampshire	45	45	0.7%	45	45	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	5,262	5,614	-6.3%	0	0	5,231	5,496	0	0	30	118
New Jersey	177	195	-9.2%	0	0	177	195	0	0	0	0
New York	172	119	45.0%	0	0	163	45	0	0	9	74
Pennsylvania	4,912	5,299	-7.3%	0	0	4,891	5,256	0	0	22	44
East North Central	31,672	33,358	-5.1%	18,497	18,877	12,674	13,996	0	0	502	485
Illinois	10,869	10,974	-1.0%	2,141	2,258	8,228	8,235	0	0	501	481
Indiana	7,370	6,767	8.9%	6,914	6,383	456	385	0	0	0	0
Michigan	3,297	3,913	-16.0%	3,296	3,910	0	0	0	0	1	4
Ohio	5,443	7,028	-23.0%	1,453	1,651	3,990	5,377	0	0	0	0
Wisconsin	4,693	4,676	0.4%	4,693	4,676	0	0	0	0	0	0
West North Central	28,408	29,280	-3.0%	27,625	28,477	0	0	6	13	777	790
Iowa	3,397	3,474	-2.2%	2,841	2,940	0	0	0	0	556	534
Kansas	3,013	3,235	-6.9%	3,013	3,235	0	0	0	0	0	0
Minnesota	3,093	3,434	-9.9%	3,093	3,368	0	0	0	0	0	66
Missouri	9,126	9,401	-2.9%	9,120	9,387	0	0	6	13	0	0
Nebraska	3,052	3,515	-13.0%	2,831	3,326	0	0	0	0	221	189
North Dakota	6,279	5,898	6.5%	6,279	5,898	0	0	0	0	0	0
South Dakota	448	322	39.0%	448	322	0	0	0	0	0	0
South Atlantic	18,493	22,538	-18.0%	15,535	19,561	2,680	2,694	0	0	277	284
Delaware	0	106	-100.0%	0	0	0	106	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,544	3,723	-32.0%	2,520	3,678	0	13	0	0	24	32
Georgia	3,251	4,216	-23.0%	3,211	4,189	0	0	0	0	40	26
Maryland	1,053	1,319	-20.0%	0	0	995	1,259	0	0	57	60
North Carolina	2,875	3,434	-16.0%	2,787	3,325	18	15	0	0	70	94
South Carolina	1,335	1,681	-21.0%	1,332	1,670	0	0	0	0	3	11
Virginia	1,179	1,570	-25.0%	984	1,430	112	80	0	0	83	60
West Virginia	6,255	6,490	-3.6%	4,701	5,268	1,554	1,223	0	0	0	0
East South Central	13,888	15,612	-11.0%	12,957	14,679	674	668	0	0	256	264
Alabama	3,953	3,740	5.7%	3,953	3,740	0	0	0	0	0	0
Kentucky	7,359	9,213	-20.0%	7,359	9,213	0	0	0	0	0	0
Mississippi	1,037	878	18.0%	362	210	674	668	0	0	0	0
Tennessee	1,539	1,781	-14.0%	1,283	1,517	0	0	0	0	256	264
West South Central	24,407	29,396	-17.0%	13,668	13,459	10,625	15,812	0	0	114	126
Arkansas	4,014	3,034	32.0%	3,253	2,867	736	147	0	0	24	20
Louisiana	1,667	2,190	-24.0%	1,044	1,320	624	870	0	0	0	0
Oklahoma	2,899	2,626	10.0%	2,549	2,248	259	272	0	0	90	106
Texas	15,827	21,547	-27.0%	6,821	7,025	9,006	14,522	0	0	0	0
Mountain	20,461	22,802	-10.0%	17,642	20,228	2,820	2,575	0	0	0	0
Arizona	4,184	3,994	4.8%	4,184	3,994	0	0	0	0	0	0
Colorado	3,731	4,185	-11.0%	3,731	4,185	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,493	2,255	11.0%	65	76	2,428	2,180	0	0	0	0
Nevada	151	148	2.2%	0	0	151	148	0	0	0	0
New Mexico	1,221	3,029	-60.0%	1,221	3,029	0	0	0	0	0	0
Utah	2,824	3,109	-9.2%	2,714	2,999	111	110	0	0	0	0
Wyoming	5,856	6,082	-3.7%	5,727	5,946	130	137	0	0	0	0
Pacific Contiguous	814	814	-0.1%	0	165	651	497	0	0	163	153
California	163	153	6.2%	0	0	0	0	0	0	163	153
Oregon	0	165	-100.0%	0	165	0	0	0	0	0	0
Washington	651	497	31.0%	0	0	651	497	0	0	0	0
Pacific Noncontiguous	235	163	44.0%	50	44	184	119	0	0	0	0
Alaska	50	44	14.0%	50	44	0	0	0	0	0	0
Hawaii	184	119	55.0%	0	0	184	119	0	0	0	0
U.S. Total	143,707	159,734	-10.0%	106,019	115,534	35,563	41,969	6	13	2,119	2,218

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

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, March 2018 and 2017
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	3	8	-62.0%	2	3	1	4	0	0	0	0
Connecticut	1	4	-87.0%	0	0	1	4	0	0	0	0
Maine	1	0	144.0%	0	0	1	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	2	3	-48.0%	2	3	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	69	108	-36.0%	1	60	61	41	0	0	8	7
New Jersey	3	0	683.0%	0	0	3	0	0	0	0	0
New York	8	64	-88.0%	1	60	6	3	0	0	1	0
Pennsylvania	58	44	33.0%	0	0	52	38	0	0	7	6
East North Central	77	55	39.0%	31	27	44	26	0	0	2	3
Illinois	8	9	-1.1%	1	0	8	9	0	0	0	0
Indiana	17	10	67.0%	17	10	0	0	0	0	0	0
Michigan	9	11	-20.0%	8	10	0	0	0	0	1	2
Ohio	41	24	70.0%	4	6	36	17	0	0	1	1
Wisconsin	1	1	18.0%	1	1	0	0	0	0	0	0
West North Central	33	22	49.0%	33	22	0	0	0	0	0	0
Iowa	18	4	338.0%	18	4	0	0	0	0	0	0
Kansas	6	5	19.0%	6	5	0	0	0	0	0	0
Minnesota	1	1	-52.0%	1	1	0	0	0	0	0	0
Missouri	6	5	28.0%	6	5	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	2	2	-8.4%	2	2	0	0	0	0	0	0
South Dakota	0	5	-100.0%	0	5	0	0	0	0	0	0
South Atlantic	276	1,035	-73.0%	180	970	68	47	0	0	28	18
Delaware	31	0	--	0	0	31	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	70	931	-92.0%	60	928	0	0	0	0	10	3
Georgia	19	17	9.9%	15	13	0	0	0	0	4	5
Maryland	37	26	40.0%	0	0	37	26	0	0	0	0
North Carolina	25	18	36.0%	18	17	0	0	0	0	7	2
South Carolina	9	12	-28.0%	4	5	0	0	0	0	5	7
Virginia	65	24	177.0%	63	2	1	21	0	0	1	0
West Virginia	20	6	238.0%	20	6	0	0	0	0	0	0
East South Central	14	27	-49.0%	14	26	0	0	0	0	0	2
Alabama	4	4	-3.8%	4	4	0	0	0	0	0	0
Kentucky	7	18	-60.0%	7	18	0	0	0	0	0	0
Mississippi	1	1	-40.0%	1	1	0	0	0	0	0	0
Tennessee	2	4	-48.0%	2	2	0	0	0	0	0	2
West South Central	10	7	35.0%	4	2	5	5	0	0	0	0
Arkansas	5	0	--	4	0	1	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-100.0%	0	1	0	0	0	0	0	0
Texas	4	6	-34.0%	0	2	4	5	0	0	0	0
Mountain	18	34	-47.0%	17	30	1	4	0	0	0	0
Arizona	10	4	136.0%	10	4	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	2	-75.0%	0	0	1	2	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	2	3	-45.0%	2	3	0	0	0	0	0	0
Utah	3	15	-79.0%	3	14	0	1	0	0	0	0
Wyoming	3	9	-71.0%	3	9	0	0	0	0	0	0
Pacific Contiguous	0	1	-100.0%	0	0	0	1	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	1	-100.0%	0	0	0	1	0	0	0	0
Pacific Noncontiguous	711	721	-1.4%	546	618	165	103	0	0	0	0
Alaska	0	0	-100.0%	0	0	0	0	0	0	0	0
Hawaii	711	721	-1.4%	546	618	165	103	0	0	0	0
U.S. Total	1,210	2,018	-40.0%	827	1,759	345	231	0	0	38	29

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

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	1,005	188	435.0%	114	8	891	180	0	0	0	0
Connecticut	105	19	462.0%	0	0	105	19	0	0	0	0
Maine	250	84	199.0%	0	0	250	84	0	0	0	0
Massachusetts	368	78	374.0%	12	0	356	78	0	0	0	0
New Hampshire	182	8	NM	102	8	80	0	0	0	0	0
Rhode Island	100	0	--	0	0	100	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,277	319	615.0%	637	161	1,609	142	0	0	30	16
New Jersey	136	1	NM	0	0	136	1	0	0	0	0
New York	1,659	211	687.0%	637	161	1,010	48	0	0	11	2
Pennsylvania	482	107	350.0%	0	0	463	93	0	0	19	14
East North Central	212	178	19.0%	121	101	83	68	0	0	8	8
Illinois	20	27	-27.0%	1	1	19	27	0	0	0	0
Indiana	53	38	39.0%	53	38	1	0	0	0	0	0
Michigan	28	35	-21.0%	26	31	0	0	0	0	2	4
Ohio	85	69	22.0%	26	24	52	42	0	0	6	4
Wisconsin	26	7	260.0%	16	7	11	0	0	0	0	0
West North Central	134	112	20.0%	134	112	0	0	0	0	0	0
Iowa	44	25	75.0%	44	25	0	0	0	0	0	0
Kansas	19	20	-3.9%	19	20	0	0	0	0	0	0
Minnesota	3	5	-39.0%	3	5	0	0	0	0	0	0
Missouri	51	26	96.0%	51	26	0	0	0	0	0	0
Nebraska	1	0	--	1	0	0	0	0	0	0	0
North Dakota	17	31	-47.0%	17	31	0	0	0	0	0	0
South Dakota	0	5	-100.0%	0	5	0	0	0	0	0	0
South Atlantic	2,061	1,336	54.0%	1,384	1,198	584	97	0	0	93	41
Delaware	69	4	NM	0	0	69	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	159	1,008	-84.0%	143	1,001	0	0	0	0	16	7
Georgia	124	53	134.0%	75	39	25	3	0	0	24	12
Maryland	350	37	843.0%	0	0	350	37	0	0	0	0
North Carolina	586	97	502.0%	572	89	0	1	0	0	14	7
South Carolina	234	29	702.0%	163	19	43	0	0	0	28	10
Virginia	438	65	572.0%	351	8	76	52	0	0	11	5
West Virginia	101	42	139.0%	80	42	20	0	0	0	0	0
East South Central	138	104	33.0%	80	97	58	4	0	0	1	4
Alabama	88	15	485.0%	30	11	58	4	0	0	0	0
Kentucky	27	50	-46.0%	27	50	0	0	0	0	0	0
Mississippi	6	6	0.0%	6	6	0	0	0	0	0	0
Tennessee	18	34	-48.0%	17	30	0	0	0	0	1	4
West South Central	26	48	-46.0%	17	11	9	37	0	0	0	0
Arkansas	8	21	-61.0%	7	2	1	20	0	0	0	0
Louisiana	3	0	--	3	0	0	0	0	0	0	0
Oklahoma	1	1	-38.0%	1	1	0	0	0	0	0	0
Texas	13	25	-48.0%	6	7	8	18	0	0	0	0
Mountain	63	85	-26.0%	60	79	3	7	0	0	0	0
Arizona	26	16	60.0%	26	16	0	0	0	0	0	0
Colorado	2	1	167.0%	2	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	4	-64.0%	0	0	2	4	0	0	0	0
Nevada	1	2	-55.0%	0	0	1	2	0	0	0	0
New Mexico	8	21	-60.0%	8	21	0	0	0	0	0	0
Utah	15	23	-36.0%	14	23	0	1	0	0	0	0
Wyoming	9	18	-48.0%	9	18	0	0	0	0	0	0
Pacific Contiguous	0	13	-100.0%	0	7	0	6	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	7	-100.0%	0	7	0	0	0	0	0	0
Washington	0	6	-100.0%	0	0	0	6	0	0	0	0
Pacific Noncontiguous	2,038	2,196	-7.2%	1,678	1,809	360	387	0	0	0	0
Alaska	0	1	-100.0%	0	1	0	0	0	0	0	0
Hawaii	2,038	2,196	-7.2%	1,678	1,808	360	387	0	0	0	0
U.S. Total	7,955	4,579	74.0%	4,227	3,582	3,596	929	0	0	132	68

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

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

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, March 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
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	66	39	70.0%	66	39	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	62	38	63.0%	62	38	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	4	1	367.0%	4	1	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	117	72	62.0%	117	72	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	117	72	62.0%	117	72	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	35	-100.0%	0	35	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	35	-100.0%	0	35	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	98	163	-40.0%	98	163	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	98	163	-40.0%	98	163	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	281	309	-9.0%	281	309	0	0	0	0	0	0

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

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

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 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	179	115	56.0%	179	115	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	161	109	48.0%	161	109	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	18	6	195.0%	18	6	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	294	148	99.0%	294	148	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	294	148	99.0%	294	148	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	82	-100.0%	0	82	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	82	-100.0%	0	82	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	333	486	-32.0%	333	486	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	333	486	-32.0%	333	486	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	806	831	-3.0%	806	831	0	0	0	0	0	0

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

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

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, March 2018 and 2017
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	24,242	20,190	20.0%	18	2	24,224	20,189	0	0	0	0
Connecticut	10,061	7,446	35.0%	0	0	10,061	7,446	0	0	0	0
Maine	1,069	2	NM	0	0	1,069	2	0	0	0	0
Massachusetts	10,703	10,544	1.5%	17	0	10,686	10,544	0	0	0	0
New Hampshire	247	1,470	-83.0%	1	2	246	1,468	0	0	0	0
Rhode Island	2,163	729	197.0%	0	0	2,163	729	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	83,103	70,068	19.0%	5,282	6,672	76,988	63,072	0	0	832	324
New Jersey	21,209	14,853	43.0%	0	0	21,209	14,853	0	0	0	0
New York	22,731	25,985	-13.0%	5,282	6,672	16,879	19,244	0	0	570	69
Pennsylvania	39,162	29,229	34.0%	0	0	38,900	28,974	0	0	262	255
East North Central	66,593	54,019	23.0%	23,427	22,062	41,187	30,038	567	534	1,412	1,385
Illinois	5,335	5,756	-7.3%	341	14	4,992	5,739	0	0	2	3
Indiana	9,542	11,050	-14.0%	3,445	8,655	6,097	2,395	0	0	0	0
Michigan	22,703	16,773	35.0%	6,020	3,707	15,444	11,938	567	534	672	593
Ohio	19,137	14,750	30.0%	4,520	5,259	14,147	8,961	0	0	469	531
Wisconsin	9,875	5,690	74.0%	9,099	4,427	507	1,005	0	0	269	257
West North Central	13,147	2,052	541.0%	11,416	1,789	1,205	13	179	127	348	123
Iowa	4,278	182	NM	3,942	82	0	0	0	0	336	100
Kansas	1,607	1,155	39.0%	1,607	1,155	0	0	0	0	0	0
Minnesota	3,577	105	NM	3,550	69	15	13	1	1	12	23
Missouri	3,496	396	782.0%	2,127	270	1,190	0	178	127	0	0
Nebraska	113	121	-6.7%	113	121	0	0	0	0	0	0
North Dakota	76	92	-17.0%	76	92	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	185,146	168,107	10.0%	154,257	142,473	27,957	22,524	0	0	2,931	3,111
Delaware	3,250	2,721	19.0%	0	0	3,250	2,721	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	88,092	81,022	8.7%	85,706	80,103	2,018	659	0	0	368	260
Georgia	24,999	23,290	7.3%	20,248	17,115	3,982	5,270	0	0	769	905
Maryland	5,127	3,965	29.0%	0	0	4,943	3,751	0	0	185	215
North Carolina	27,088	23,040	18.0%	24,233	20,516	2,612	2,436	0	0	243	89
South Carolina	10,038	8,471	18.0%	7,777	6,688	2,173	1,686	0	0	88	98
Virginia	25,988	24,598	5.7%	16,198	17,835	8,924	5,937	0	0	867	826
West Virginia	563	1,000	-44.0%	95	217	55	65	0	0	413	719
East South Central	70,554	66,974	5.3%	46,611	44,444	22,137	20,986	0	0	1,806	1,545
Alabama	27,422	26,422	3.8%	9,112	8,475	18,310	17,947	0	0	0	0
Kentucky	9,011	4,859	85.0%	8,277	4,273	733	586	0	0	0	0
Mississippi	25,698	26,029	-1.3%	22,605	23,575	3,094	2,453	0	0	0	0
Tennessee	8,423	9,665	-13.0%	6,617	8,121	0	0	0	0	1,806	1,545
West South Central	188,360	151,691	24.0%	43,261	30,023	97,058	78,012	0	0	48,041	43,656
Arkansas	10,063	6,678	51.0%	1,688	5	8,212	6,444	0	0	163	228
Louisiana	31,524	33,389	-5.6%	14,718	15,050	2,371	3,587	0	0	14,435	14,752
Oklahoma	15,373	10,803	42.0%	8,728	6,136	6,372	4,529	0	0	273	139
Texas	131,400	100,822	30.0%	18,127	8,833	80,103	63,452	0	0	33,170	28,537
Mountain	40,399	31,464	28.0%	36,151	27,819	4,190	3,535	0	0	58	110
Arizona	11,560	7,211	60.0%	10,870	6,251	690	960	0	0	0	0
Colorado	7,803	5,274	48.0%	6,782	4,391	1,021	884	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	211	240	-12.0%	211	240	0	0	0	0	0	0
Nevada	12,491	11,985	4.2%	12,491	11,985	0	0	0	0	0	0
New Mexico	5,418	4,597	18.0%	2,939	3,047	2,479	1,551	0	0	0	0
Utah	2,888	2,144	35.0%	2,830	1,894	0	140	0	0	58	110
Wyoming	28	12	138.0%	28	12	0	0	0	0	0	0
Pacific Contiguous	53,048	32,521	63.0%	21,751	12,833	28,753	16,859	0	0	2,544	2,828
California	40,519	29,920	35.0%	16,399	11,811	21,576	15,281	0	0	2,544	2,828
Oregon	9,209	1,579	483.0%	4,224	0	4,986	1,579	0	0	0	0
Washington	3,320	1,021	225.0%	1,128	1,021	2,192	0	0	0	0	0
Pacific Noncontiguous	65	120	-46.0%	65	120	0	0	0	0	0	0
Alaska	65	120	-46.0%	65	120	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	724,656	597,207	21.0%	342,238	288,236	323,699	255,227	746	662	57,973	53,082

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

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

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	67,393	60,706	11.0%	22	4	67,370	60,702	0	0	0	0
Connecticut	27,161	25,245	7.6%	0	0	27,161	25,245	0	0	0	0
Maine	1,823	5	NM	0	0	1,823	5	0	0	0	0
Massachusetts	31,248	29,672	5.3%	17	0	31,231	29,672	0	0	0	0
New Hampshire	1,396	3,478	-60.0%	5	4	1,391	3,475	0	0	0	0
Rhode Island	5,764	2,305	150.0%	0	0	5,764	2,305	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	227,717	195,169	17.0%	17,770	19,196	207,331	175,153	0	0	2,617	821
New Jersey	52,776	33,891	56.0%	0	0	52,776	33,891	0	0	0	0
New York	66,046	72,773	-9.2%	17,770	19,196	46,484	53,355	0	0	1,792	222
Pennsylvania	108,895	88,505	23.0%	0	0	108,071	87,906	0	0	825	599
East North Central	198,629	143,358	39.0%	75,669	54,661	117,072	82,960	1,778	1,687	4,110	4,050
Illinois	13,057	16,029	-19.0%	508	45	12,544	15,967	0	0	5	17
Indiana	33,636	29,531	14.0%	18,724	23,138	14,912	6,393	0	0	0	0
Michigan	59,718	41,265	45.0%	15,333	7,819	40,689	30,000	1,778	1,687	1,918	1,759
Ohio	63,740	42,871	49.0%	14,368	12,519	47,945	28,897	0	0	1,426	1,455
Wisconsin	28,478	13,663	108.0%	26,735	11,141	982	1,704	0	0	761	818
West North Central	33,717	5,077	564.0%	29,582	4,236	2,708	13	474	237	953	592
Iowa	11,036	820	NM	10,098	270	0	0	0	0	939	550
Kansas	3,749	2,545	47.0%	3,749	2,545	0	0	0	0	0	0
Minnesota	8,877	149	NM	8,803	92	58	13	2	2	15	42
Missouri	9,610	959	902.0%	6,488	725	2,650	0	472	235	0	0
Nebraska	330	303	9.1%	330	303	0	0	0	0	0	0
North Dakota	115	302	-62.0%	115	302	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	531,083	461,890	15.0%	445,408	398,417	76,575	54,863	0	0	9,100	8,610
Delaware	7,213	5,916	22.0%	0	0	7,213	5,916	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	250,231	215,116	16.0%	242,235	213,369	7,161	1,056	0	0	834	691
Georgia	79,487	75,504	5.3%	63,503	58,566	13,620	14,547	0	0	2,365	2,391
Maryland	10,784	6,787	59.0%	0	0	10,149	6,159	0	0	635	628
North Carolina	72,415	65,699	10.0%	64,240	58,493	7,415	6,962	0	0	759	244
South Carolina	27,936	22,776	23.0%	23,069	19,690	4,578	2,756	0	0	288	330
Virginia	80,801	67,565	20.0%	52,013	47,970	26,294	17,356	0	0	2,493	2,239
West Virginia	2,216	2,527	-12.0%	347	329	143	110	0	0	1,726	2,088
East South Central	221,623	166,251	33.0%	152,750	110,544	64,007	51,379	0	0	4,866	4,328
Alabama	79,657	68,675	16.0%	25,876	25,339	53,781	43,336	0	0	0	0
Kentucky	29,511	8,940	230.0%	27,480	8,149	2,031	791	0	0	0	0
Mississippi	86,881	66,642	30.0%	78,686	59,390	8,195	7,252	0	0	0	0
Tennessee	25,575	21,995	16.0%	20,708	17,667	0	0	0	0	4,866	4,328
West South Central	590,344	426,772	38.0%	134,681	79,503	302,584	213,354	0	0	153,079	133,914
Arkansas	30,132	12,700	137.0%	4,818	13	24,635	12,045	0	0	679	643
Louisiana	106,586	94,859	12.0%	49,271	38,618	7,619	7,953	0	0	49,696	48,288
Oklahoma	47,582	34,024	40.0%	25,667	21,246	21,171	12,486	0	0	744	292
Texas	406,044	285,189	42.0%	54,925	19,627	249,159	180,871	0	0	101,959	84,691
Mountain	122,782	103,540	19.0%	106,693	89,851	15,900	13,446	0	0	189	243
Arizona	32,847	22,192	48.0%	28,092	17,763	4,754	4,429	0	0	0	0
Colorado	26,900	18,188	48.0%	22,896	15,252	4,004	2,936	0	0	0	0
Idaho	356	0	--	356	0	0	0	0	0	0	0
Montana	649	688	-5.8%	649	688	0	0	0	0	0	0
Nevada	36,811	38,229	-3.7%	36,811	38,229	0	0	0	0	0	0
New Mexico	15,440	15,050	2.6%	8,566	9,251	6,873	5,798	0	0	0	0
Utah	9,572	9,069	5.5%	9,119	8,543	263	282	0	0	189	243
Wyoming	209	124	68.0%	204	124	5	0	0	0	0	0
Pacific Contiguous	151,249	134,595	12.0%	63,087	52,588	81,110	74,333	0	0	7,052	7,673
California	119,045	114,807	3.7%	48,678	44,646	63,315	62,487	0	0	7,052	7,673
Oregon	23,391	14,304	64.0%	10,081	2,459	13,310	11,846	0	0	0	0
Washington	8,813	5,483	61.0%	4,328	5,483	4,484	0	0	0	0	0
Pacific Noncontiguous	370	390	-5.1%	370	390	0	0	0	0	0	0
Alaska	370	390	-5.1%	370	390	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,144,908	1,697,747	26.0%	1,026,033	809,389	934,657	726,203	2,252	1,924	181,967	160,231

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

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

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.13	2.05	3.9%	--	--	2.13	2.05
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	2.06	W	W	--	--	2.06	W
East North Central	1.95	2.02	-3.5%	2.09	2.11	1.76	1.90
Illinois	1.74	W	W	1.85	1.84	1.71	W
Indiana	W	W	W	2.13	2.16	W	W
Michigan	2.12	2.18	-2.8%	2.12	2.18	--	--
Ohio	W	1.93	W	1.73	1.74	W	1.99
Wisconsin	2.25	2.31	-2.6%	2.25	2.31	--	--
West North Central	1.75	1.76	-0.6%	1.75	1.76	--	--
Iowa	1.74	1.68	3.6%	1.74	1.68	--	--
Kansas	1.68	1.72	-2.3%	1.68	1.72	--	--
Minnesota	2.11	2.12	-0.5%	2.11	2.12	--	--
Missouri	1.88	1.82	3.3%	1.88	1.82	--	--
Nebraska	1.27	1.40	-9.3%	1.27	1.40	--	--
North Dakota	1.55	1.62	-4.3%	1.55	1.62	--	--
South Dakota	1.83	2.26	-19.0%	1.83	2.26	--	--
South Atlantic	2.57	2.71	-5.2%	2.64	2.75	2.15	2.43
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.81	2.98	-5.7%	2.81	2.98	--	--
Georgia	2.65	2.71	-2.2%	2.65	2.71	--	--
Maryland	2.40	2.80	-14.0%	--	--	2.40	2.80
North Carolina	W	W	W	3.08	2.92	W	W
South Carolina	3.33	3.30	0.9%	3.33	3.30	--	--
Virginia	W	W	W	2.66	2.69	W	W
West Virginia	W	W	W	2.14	2.32	W	W
East South Central	W	W	W	2.10	2.02	W	W
Alabama	2.29	2.15	6.5%	2.29	2.15	--	--
Kentucky	1.96	1.92	2.1%	1.96	1.92	--	--
Mississippi	W	W	W	2.86	3.56	W	W
Tennessee	2.24	2.26	-0.9%	2.24	2.26	--	--
West South Central	1.89	1.90	-0.5%	1.99	2.06	1.74	1.77
Arkansas	W	2.10	W	2.01	2.10	W	--
Louisiana	W	W	W	2.05	2.24	W	W
Oklahoma	W	W	W	1.72	1.88	W	W
Texas	1.87	W	W	2.08	2.10	1.67	W
Mountain	W	W	W	1.99	1.94	W	W
Arizona	2.45	2.23	9.9%	2.45	2.23	--	--
Colorado	1.61	1.90	-15.0%	1.61	1.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.81	1.71	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	2.29	2.01	14.0%	2.29	2.01	--	--
Utah	2.03	1.98	2.5%	2.03	1.98	--	--
Wyoming	W	W	W	1.76	1.65	W	W
Pacific Contiguous	W	W	W	--	2.32	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.32	--	--	2.32	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.24	3.15	W	W
Alaska	3.24	3.15	2.9%	3.24	3.15	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.04	2.08	-1.9%	2.10	2.13	1.85	1.93

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

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	W	W	W	3.61	4.34	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	3.61	4.34	-17.0%	3.61	4.34	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.46	2.06	19.0%	--	--	2.46	2.06
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.39	2.00	20.0%	--	--	2.39	2.00
East North Central	1.97	2.02	-2.5%	2.08	2.12	1.81	1.89
Illinois	1.75	W	W	1.82	1.86	1.73	W
Indiana	W	W	W	2.11	2.16	W	W
Michigan	2.17	2.23	-2.7%	2.17	2.23	--	--
Ohio	W	1.94	W	1.78	1.76	W	2.00
Wisconsin	2.21	2.26	-2.2%	2.21	2.26	--	--
West North Central	1.73	1.76	-1.7%	1.73	1.76	--	--
Iowa	1.70	1.69	0.6%	1.70	1.69	--	--
Kansas	1.68	1.70	-1.2%	1.68	1.70	--	--
Minnesota	2.10	2.11	-0.5%	2.10	2.11	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.25	1.38	-9.4%	1.25	1.38	--	--
North Dakota	1.48	1.59	-6.9%	1.48	1.59	--	--
South Dakota	1.89	2.27	-17.0%	1.89	2.27	--	--
South Atlantic	2.64	2.71	-2.6%	2.71	2.73	2.26	2.54
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.91	W	W	2.91	3.01	--	W
Georgia	2.80	2.74	2.2%	2.80	2.74	--	--
Maryland	2.56	2.89	-11.0%	--	--	2.56	2.89
North Carolina	W	W	W	3.06	2.97	W	W
South Carolina	3.39	3.32	2.1%	3.39	3.32	--	--
Virginia	W	W	W	2.67	2.68	W	W
West Virginia	W	W	W	2.18	2.23	W	W
East South Central	W	W	W	2.12	2.05	W	W
Alabama	2.30	2.16	6.5%	2.30	2.16	--	--
Kentucky	1.99	1.96	1.5%	1.99	1.96	--	--
Mississippi	W	W	W	2.81	3.08	W	W
Tennessee	2.17	2.24	-3.1%	2.17	2.24	--	--
West South Central	1.86	1.91	-2.6%	1.97	2.12	1.72	1.73
Arkansas	W	W	W	1.95	2.14	W	W
Louisiana	W	W	W	2.08	2.39	W	W
Oklahoma	W	W	W	1.75	1.94	W	W
Texas	1.83	1.84	-0.5%	2.05	2.13	1.65	1.69
Mountain	W	W	W	2.00	1.92	W	W
Arizona	2.43	2.24	8.5%	2.43	2.24	--	--
Colorado	1.66	1.84	-9.8%	1.66	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.86	1.73	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	2.28	1.97	16.0%	2.28	1.97	--	--
Utah	2.04	1.97	3.6%	2.04	1.97	--	--
Wyoming	W	W	W	1.79	1.70	W	W
Pacific Contiguous	W	W	W	--	2.40	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.40	--	--	2.40	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.29	3.02	W	W
Alaska	3.29	3.02	8.9%	3.29	3.02	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.07	-1.0%	2.09	2.13	1.93	1.92

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

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

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017
New England	W	W	W	13.91	14.04	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	13.91	14.04	-0.9%	13.91	14.04	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	14.51	W	W	15.91	8.46	14.49	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	15.91	8.46	W	W
Pennsylvania	14.80	11.90	24.0%	--	--	14.80	11.90
East North Central	14.73	12.21	21.0%	14.60	12.28	14.83	12.13
Illinois	14.99	12.47	20.0%	14.37	--	15.05	12.47
Indiana	14.71	12.53	17.0%	14.71	12.53	--	--
Michigan	14.38	11.62	24.0%	14.38	11.62	--	--
Ohio	14.79	12.22	21.0%	14.85	12.94	14.78	11.97
Wisconsin	13.98	12.04	16.0%	13.98	12.04	--	--
West North Central	15.86	11.98	32.0%	15.86	11.98	--	--
Iowa	16.63	11.76	41.0%	16.63	11.76	--	--
Kansas	15.19	12.15	25.0%	15.19	12.15	--	--
Minnesota	14.87	12.30	21.0%	14.87	12.30	--	--
Missouri	14.67	11.96	23.0%	14.67	11.96	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	14.64	11.89	23.0%	14.64	11.89	--	--
South Dakota	--	11.98	--	--	11.98	--	--
South Atlantic	14.18	W	W	14.21	12.29	14.00	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	15.19	12.31	23.0%	15.19	12.31	--	--
Georgia	14.03	11.36	24.0%	14.03	11.36	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	14.56	12.11	20.0%	14.56	12.11	--	--
South Carolina	14.70	12.31	19.0%	14.70	12.31	--	--
Virginia	W	W	W	12.79	11.58	W	W
West Virginia	15.61	12.52	25.0%	15.61	12.52	--	--
East South Central	14.89	11.66	28.0%	14.89	11.66	--	--
Alabama	15.55	11.96	30.0%	15.55	11.96	--	--
Kentucky	14.54	11.67	25.0%	14.54	11.67	--	--
Mississippi	14.60	11.15	31.0%	14.60	11.15	--	--
Tennessee	14.92	11.30	32.0%	14.92	11.30	--	--
West South Central	14.86	W	W	14.36	12.55	15.31	W
Arkansas	W	--	W	14.36	--	W	--
Louisiana	--	--	--	--	--	--	--
Oklahoma	--	12.53	--	--	12.53	--	--
Texas	W	W	W	--	12.56	W	W
Mountain	W	13.57	W	16.16	13.58	W	13.51
Arizona	14.42	13.64	5.7%	14.42	13.64	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	--	W	W	--	--	--	W
New Mexico	15.03	10.68	41.0%	15.03	10.68	--	--
Utah	16.98	W	W	16.98	14.38	--	W
Wyoming	22.59	13.37	69.0%	22.59	13.37	--	--
Pacific Contiguous	--	W	W	--	--	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	12.51	10.69	W	W
Alaska	--	15.47	--	--	15.47	--	--
Hawaii	W	W	W	12.51	10.69	W	W
U.S. Total	W	11.63	W	13.19	11.58	W	12.02

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

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	W	W	W	11.39	14.17	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	15.00	--	W	W
New Hampshire	W	14.17	W	11.00	14.17	W	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.27	12.44	6.7%	11.47	9.07	14.22	16.49
New Jersey	W	W	W	--	--	W	W
New York	12.87	12.48	3.1%	11.47	9.07	13.85	24.31
Pennsylvania	W	W	W	--	--	W	W
East North Central	15.86	12.47	27.0%	15.99	12.45	15.65	12.50
Illinois	W	12.71	W	14.37	12.04	W	12.72
Indiana	W	12.40	W	15.60	12.40	W	--
Michigan	15.10	11.81	28.0%	15.10	11.81	--	--
Ohio	15.82	12.74	24.0%	16.05	13.41	15.70	12.35
Wisconsin	18.65	12.25	52.0%	18.65	12.25	--	--
West North Central	15.53	12.11	28.0%	15.53	12.11	--	--
Iowa	15.96	12.00	33.0%	15.96	12.00	--	--
Kansas	15.40	12.24	26.0%	15.40	12.24	--	--
Minnesota	15.33	12.41	24.0%	15.33	12.41	--	--
Missouri	15.50	12.40	25.0%	15.50	12.40	--	--
Nebraska	15.36	--	--	15.36	--	--	--
North Dakota	14.72	11.87	24.0%	14.72	11.87	--	--
South Dakota	--	11.98	--	--	11.98	--	--
South Atlantic	14.47	12.38	17.0%	14.73	12.33	13.77	13.02
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	15.49	12.32	26.0%	15.49	12.32	--	--
Georgia	W	W	W	15.19	11.78	W	W
Maryland	14.12	11.21	26.0%	--	--	14.12	11.21
North Carolina	17.14	W	W	17.14	12.35	--	W
South Carolina	16.84	12.82	31.0%	16.84	12.82	--	--
Virginia	W	W	W	9.95	12.42	W	W
West Virginia	W	12.86	W	16.11	12.86	W	--
East South Central	W	W	W	15.28	12.19	W	W
Alabama	W	W	W	15.59	12.90	W	W
Kentucky	15.16	12.08	25.0%	15.16	12.08	--	--
Mississippi	14.72	12.05	22.0%	14.72	12.05	--	--
Tennessee	15.11	12.15	24.0%	15.11	12.15	--	--
West South Central	14.67	12.75	15.0%	14.62	12.50	14.77	12.83
Arkansas	W	W	W	14.60	12.09	W	W
Louisiana	13.95	--	--	13.95	--	--	--
Oklahoma	15.16	13.01	17.0%	15.16	13.01	--	--
Texas	W	W	W	14.96	12.50	W	W
Mountain	16.19	13.34	21.0%	16.20	13.34	15.95	13.39
Arizona	14.76	13.77	7.2%	14.76	13.77	--	--
Colorado	15.64	12.47	25.0%	15.64	12.47	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	18.09	12.56	44.0%	18.09	12.56	--	--
Utah	W	W	W	16.86	13.77	W	W
Wyoming	17.53	13.31	32.0%	17.53	13.31	--	--
Pacific Contiguous	--	W	W	--	13.51	--	W
California	--	--	--	--	--	--	--
Oregon	--	13.51	--	--	13.51	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	12.53	10.83	W	W
Alaska	--	16.28	--	--	16.28	--	--
Hawaii	W	W	W	12.53	10.83	W	W
U.S. Total	13.40	11.72	14.0%	13.30	11.42	13.53	12.93

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

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

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.58	1.50	5.3%	1.58	1.50	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.57	1.49	5.4%	1.57	1.49	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.78	1.82	-2.2%	1.78	1.82	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.90	2.56	13.0%	2.90	2.56	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.90	2.56	13.0%	2.90	2.56	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.49	--	--	1.49	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.49	--	--	1.49	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.75	2.09	32.0%	2.75	2.09	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.75	2.09	32.0%	2.75	2.09	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.54	2.06	23.0%	2.54	2.06	--	--

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

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum 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) March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.59	1.50	6.0%	1.59	1.50	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.56	1.48	5.4%	1.56	1.48	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.78	-0.6%	1.77	1.78	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.91	2.73	6.6%	2.91	2.73	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.91	2.73	6.6%	2.91	2.73	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.49	--	--	1.49	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.49	--	--	1.49	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.50	2.08	20.0%	2.50	2.08	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.50	2.08	20.0%	2.50	2.08	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.45	2.06	19.0%	2.45	2.06	--	--

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018	March 2017	Percentage Change	March 2018	March 2017	March 2018	March 2017
New England	4.10	4.30	-4.7%	3.66	9.36	4.10	4.30
Connecticut	4.13	W	W	--	--	4.13	W
Maine	W	W	W	--	--	W	W
Massachusetts	4.10	4.21	-2.6%	3.51	--	4.10	4.21
New Hampshire	W	W	W	7.05	9.36	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.87	3.41	-16.0%	3.48	4.14	2.82	3.32
New Jersey	2.85	3.33	-14.0%	--	--	2.85	3.33
New York	3.39	4.13	-18.0%	3.48	4.14	3.35	4.13
Pennsylvania	2.57	2.76	-6.9%	--	--	2.57	2.76
East North Central	2.68	2.95	-9.2%	2.79	3.02	2.62	2.90
Illinois	W	W	W	2.86	3.92	W	W
Indiana	W	W	W	2.73	2.96	W	W
Michigan	2.74	3.06	-10.0%	2.88	3.13	2.68	3.04
Ohio	2.57	2.77	-7.2%	2.62	2.88	2.55	2.71
Wisconsin	2.84	W	W	2.84	3.20	--	W
West North Central	W	W	W	2.74	3.54	W	W
Iowa	2.38	4.48	-47.0%	2.38	4.48	--	--
Kansas	2.91	3.42	-15.0%	2.91	3.42	--	--
Minnesota	W	W	W	3.21	3.31	W	W
Missouri	W	2.53	W	2.40	2.53	W	--
Nebraska	4.30	4.89	-12.0%	4.30	4.89	--	--
North Dakota	2.75	5.52	-50.0%	2.75	5.52	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.97	3.78	5.0%	4.10	3.82	2.98	3.46
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.93	W	4.56	3.93	W	--
Georgia	W	W	W	3.36	3.60	W	W
Maryland	3.05	4.61	-34.0%	--	--	3.05	4.61
North Carolina	W	W	W	3.72	3.89	W	W
South Carolina	W	W	W	3.27	3.57	W	W
Virginia	W	W	W	3.63	3.59	W	W
West Virginia	W	W	W	2.79	3.10	W	W
East South Central	2.92	3.16	-7.6%	2.91	3.15	2.95	3.18
Alabama	W	W	W	3.01	3.49	W	W
Kentucky	W	W	W	3.01	3.12	W	W
Mississippi	W	W	W	2.87	3.09	W	W
Tennessee	2.77	2.98	-7.0%	2.77	2.98	--	--
West South Central	2.69	2.99	-10.0%	2.74	3.11	2.67	2.93
Arkansas	W	W	W	3.24	3.20	W	W
Louisiana	W	W	W	2.90	3.06	W	W
Oklahoma	W	W	W	2.46	3.37	W	W
Texas	2.68	2.94	-8.8%	2.70	3.02	2.67	2.92
Mountain	3.55	W	W	3.55	3.54	3.64	W
Arizona	W	W	W	2.81	3.88	W	W
Colorado	W	W	W	6.69	3.68	W	W
Idaho	--	--	--	--	--	--	--
Montana	1.61	2.03	-21.0%	1.61	2.03	--	--
Nevada	2.81	3.47	-19.0%	2.81	3.47	--	--
New Mexico	2.48	3.13	-21.0%	2.48	3.13	--	--
Utah	2.81	W	W	2.81	3.30	--	W
Wyoming	W	10.36	W	4.78	10.36	W	--
Pacific Contiguous	W	W	W	3.01	3.70	W	W
California	W	W	W	3.36	3.73	W	W
Oregon	W	W	W	1.98	--	W	W
Washington	W	3.42	W	2.89	3.42	W	--
Pacific Noncontiguous	8.44	8.09	4.3%	8.44	8.09	--	--
Alaska	8.44	8.09	4.3%	8.44	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.21	3.41	-5.9%	3.50	3.56	2.85	3.21

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) March 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2018 YTD	March 2017 YTD	Percentage Change	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	7.44	5.11	46.0%	5.38	9.02	7.44	5.11
Connecticut	7.29	W	W	--	--	7.29	W
Maine	W	W	W	--	--	W	W
Massachusetts	7.70	4.40	75.0%	3.51	--	7.70	4.40
New Hampshire	W	W	W	11.44	9.02	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	4.42	3.83	15.0%	6.49	4.92	4.22	3.69
New Jersey	4.18	3.53	18.0%	--	--	4.18	3.53
New York	5.57	4.58	22.0%	6.49	4.92	5.16	4.43
Pennsylvania	3.85	3.31	16.0%	--	--	3.85	3.31
East North Central	3.17	3.20	-0.9%	3.39	3.22	3.02	3.19
Illinois	3.53	W	W	5.03	4.79	3.46	W
Indiana	3.33	W	W	3.61	3.11	2.98	W
Michigan	3.14	3.21	-2.2%	3.51	3.33	3.00	3.18
Ohio	2.97	3.16	-6.0%	3.06	3.04	2.95	3.21
Wisconsin	3.33	W	W	3.33	3.58	--	W
West North Central	W	W	W	3.19	4.13	W	W
Iowa	2.91	4.67	-38.0%	2.91	4.67	--	--
Kansas	3.37	4.12	-18.0%	3.37	4.12	--	--
Minnesota	W	W	W	3.58	3.52	W	W
Missouri	W	2.98	W	2.85	2.98	W	--
Nebraska	5.06	5.33	-5.1%	5.06	5.33	--	--
North Dakota	7.15	5.41	32.0%	7.15	5.41	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	5.07	4.10	24.0%	5.11	4.16	4.71	3.47
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.32	W	4.73	4.32	W	--
Georgia	W	W	W	3.92	3.67	W	W
Maryland	W	W	W	--	--	W	W
North Carolina	W	W	W	6.07	4.18	W	W
South Carolina	W	W	W	4.49	3.57	W	W
Virginia	W	W	W	7.40	4.26	W	W
West Virginia	4.18	W	W	4.14	3.14	4.27	W
East South Central	3.40	3.42	-0.6%	3.43	3.46	3.31	3.34
Alabama	W	W	W	3.37	3.63	W	W
Kentucky	W	W	W	3.85	4.26	W	W
Mississippi	W	W	W	3.36	3.35	W	W
Tennessee	3.24	3.22	0.6%	3.24	3.22	--	--
West South Central	3.21	3.18	0.9%	3.31	3.39	3.15	3.09
Arkansas	W	W	W	3.66	3.36	W	W
Louisiana	W	W	W	3.43	3.34	W	W
Oklahoma	W	W	W	3.00	3.52	W	W
Texas	3.19	3.12	2.2%	3.32	3.33	3.16	3.09
Mountain	3.45	W	W	3.43	3.86	3.95	W
Arizona	W	W	W	3.21	4.33	W	W
Colorado	W	W	W	4.46	3.78	W	W
Idaho	3.32	--	--	3.32	--	--	--
Montana	1.78	2.17	-18.0%	1.78	2.17	--	--
Nevada	3.10	3.81	-19.0%	3.10	3.81	--	--
New Mexico	3.13	3.49	-10.0%	3.13	3.49	--	--
Utah	W	W	W	3.07	3.74	W	W
Wyoming	W	W	W	3.81	4.92	W	W
Pacific Contiguous	W	W	W	3.55	4.22	W	W
California	3.44	W	W	3.87	4.24	2.98	W
Oregon	W	W	W	2.24	3.40	W	W
Washington	W	4.46	W	3.56	4.46	W	--
Pacific Noncontiguous	8.44	8.09	4.3%	8.44	8.09	--	--
Alaska	8.44	8.09	4.3%	8.44	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.04	3.74	8.0%	4.20	3.91	3.82	3.51

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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, March 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	6	0.77	7.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.77	7.2	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,348	2.80	8.5	0	--	--	0	--	--
New Jersey	56	1.65	8.2	0	--	--	0	--	--
New York	12	2.74	10.7	0	--	--	0	--	--
Pennsylvania	1,279	2.85	8.5	0	--	--	0	--	--
East North Central	5,595	3.22	10.3	6,022	0.22	4.6	0	--	--
Illinois	900	3.51	20.2	3,066	0.22	4.6	0	--	--
Indiana	2,439	2.81	8.5	174	0.24	4.3	0	--	--
Michigan	79	2.48	7.7	1,070	0.22	4.7	0	--	--
Ohio	2,130	3.60	9.2	0	--	--	0	--	--
Wisconsin	47	2.83	8.0	1,713	0.23	4.7	0	--	--
West North Central	81	3.19	9.3	6,833	0.27	5.0	2,065	0.76	9.9
Iowa	32	3.55	8.0	1,013	0.25	4.7	0	--	--
Kansas	17	3.38	13.1	856	0.33	5.0	0	--	--
Minnesota	0	--	--	1,238	0.31	6.0	0	--	--
Missouri	33	2.75	8.6	2,548	0.22	4.6	0	--	--
Nebraska	0	--	--	999	0.32	5.3	0	--	--
North Dakota	0	--	--	0	--	--	2,065	0.76	9.9
South Dakota	0	--	--	180	0.31	5.1	0	--	--
South Atlantic	5,777	2.34	10.1	715	0.31	4.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	783	2.74	8.2	0	--	--	0	--	--
Georgia	270	2.49	8.3	715	0.31	4.6	0	--	--
Maryland	308	2.38	10.8	0	--	--	0	--	--
North Carolina	1,107	1.83	9.1	0	--	--	0	--	--
South Carolina	485	1.60	9.1	0	--	--	0	--	--
Virginia	410	1.18	20.6	0	--	--	0	--	--
West Virginia	2,414	2.73	9.9	0	--	--	0	--	--
East South Central	3,088	2.59	9.1	1,891	0.27	5.1	178	0.52	13.9
Alabama	650	1.49	10.1	818	0.29	5.2	0	--	--
Kentucky	2,093	3.05	8.9	904	0.24	5.1	0	--	--
Mississippi	25	0.48	7.2	96	0.25	4.9	178	0.52	13.9
Tennessee	321	2.00	8.5	73	0.34	5.2	0	--	--
West South Central	59	2.33	14.1	5,796	0.26	4.9	1,368	1.16	17.4
Arkansas	10	0.39	10.1	1,100	0.22	4.8	0	--	--
Louisiana	29	3.26	9.6	418	0.29	5.0	0	--	--
Oklahoma	20	2.04	23.3	914	0.22	4.6	0	--	--
Texas	0	--	--	3,364	0.29	5.0	1,368	1.16	17.4
Mountain	1,739	0.56	12.5	5,446	0.47	8.1	24	0.66	9.5
Arizona	539	0.62	11.1	977	0.52	8.5	0	--	--
Colorado	54	0.45	11.0	1,354	0.32	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	802	0.65	10.4	24	0.66	9.5
Nevada	0	--	--	60	0.32	5.3	0	--	--
New Mexico	243	0.73	20.9	227	0.78	20.3	0	--	--
Utah	903	0.49	11.4	24	0.93	10.0	0	--	--
Wyoming	0	--	--	2,001	0.44	7.2	0	--	--
Pacific Contiguous	76	0.55	10.4	102	0.38	9.0	0	--	--
California	76	0.55	10.4	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	102	0.38	9.0	0	--	--
Pacific Noncontiguous	0	--	--	59	0.14	4.7	10	0.13	7.3
Alaska	0	--	--	0	--	--	10	0.13	7.3
Hawaii	0	--	--	59	0.14	4.7	0	--	--
U.S. Total	17,768	2.53	10.1	26,865	0.30	5.5	3,646	0.90	12.9

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 2017 and 2018 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, March 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	3,041	2.86	8.5	3,649	0.23	4.6	0	--	--
Illinois	170	2.65	9.6	693	0.22	4.5	0	--	--
Indiana	2,272	2.77	8.4	174	0.24	4.3	0	--	--
Michigan	78	2.50	7.7	1,070	0.22	4.7	0	--	--
Ohio	474	3.39	8.6	0	--	--	0	--	--
Wisconsin	47	2.83	8.0	1,713	0.23	4.7	0	--	--
West North Central	49	2.97	10.1	6,605	0.27	5.0	2,065	0.76	9.9
Iowa	0	--	--	858	0.25	4.7	0	--	--
Kansas	17	3.38	13.1	856	0.33	5.0	0	--	--
Minnesota	0	--	--	1,238	0.31	6.0	0	--	--
Missouri	32	2.75	8.6	2,548	0.22	4.6	0	--	--
Nebraska	0	--	--	925	0.33	5.3	0	--	--
North Dakota	0	--	--	0	--	--	2,065	0.76	9.9
South Dakota	0	--	--	180	0.31	5.1	0	--	--
South Atlantic	4,838	2.26	10.1	715	0.31	4.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	777	2.75	8.2	0	--	--	0	--	--
Georgia	259	2.55	8.3	715	0.31	4.6	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,079	1.86	9.2	0	--	--	0	--	--
South Carolina	482	1.60	9.1	0	--	--	0	--	--
Virginia	353	1.26	23.2	0	--	--	0	--	--
West Virginia	1,888	2.56	10.0	0	--	--	0	--	--
East South Central	3,013	2.64	9.1	1,891	0.27	5.1	0	--	--
Alabama	650	1.49	10.1	818	0.29	5.2	0	--	--
Kentucky	2,093	3.05	8.9	904	0.24	5.1	0	--	--
Mississippi	25	0.48	7.2	96	0.25	4.9	0	--	--
Tennessee	245	2.34	8.4	73	0.34	5.2	0	--	--
West South Central	29	3.26	9.6	3,641	0.24	4.8	525	1.72	21.2
Arkansas	0	--	--	868	0.22	4.6	0	--	--
Louisiana	29	3.26	9.6	237	0.25	4.9	0	--	--
Oklahoma	0	--	--	785	0.23	4.7	0	--	--
Texas	0	--	--	1,751	0.26	4.9	525	1.72	21.2
Mountain	1,739	0.56	12.5	4,537	0.44	7.8	24	0.66	9.5
Arizona	539	0.62	11.1	977	0.52	8.5	0	--	--
Colorado	54	0.45	11.0	1,354	0.32	5.8	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	24	0.66	9.5
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	243	0.73	20.9	227	0.78	20.3	0	--	--
Utah	903	0.49	11.4	24	0.93	10.0	0	--	--
Wyoming	0	--	--	1,954	0.44	7.3	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	10	0.13	7.3
Alaska	0	--	--	0	--	--	10	0.13	7.3
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,708	2.28	9.8	21,039	0.30	5.5	2,624	0.95	12.2

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 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, March 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	6	0.77	7.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.77	7.2	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,337	2.80	8.6	0	--	--	0	--	--
New Jersey	56	1.65	8.2	0	--	--	0	--	--
New York	12	2.74	10.7	0	--	--	0	--	--
Pennsylvania	1,269	2.85	8.5	0	--	--	0	--	--
East North Central	2,446	3.66	12.7	2,309	0.21	4.5	0	--	--
Illinois	623	3.78	26.6	2,309	0.21	4.5	0	--	--
Indiana	167	3.41	9.9	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,656	3.66	9.4	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	852	2.93	9.7	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	290	2.41	10.2	0	--	--	0	--	--
North Carolina	3	0.66	6.6	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	33	0.84	9.3	0	--	--	0	--	--
West Virginia	526	3.36	9.5	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	178	0.52	13.9
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	178	0.52	13.9
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	20	2.04	23.3	2,124	0.30	5.1	843	0.81	15.0
Arkansas	0	--	--	232	0.22	5.5	0	--	--
Louisiana	0	--	--	181	0.35	5.2	0	--	--
Oklahoma	20	2.04	23.3	98	0.22	4.5	0	--	--
Texas	0	--	--	1,613	0.31	5.0	843	0.81	15.0
Mountain	0	--	--	909	0.62	9.9	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	802	0.65	10.4	0	--	--
Nevada	0	--	--	60	0.32	5.3	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	47	0.51	6.6	0	--	--
Pacific Contiguous	0	--	--	102	0.38	9.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	102	0.38	9.0	0	--	--
Pacific Noncontiguous	0	--	--	59	0.14	4.7	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	59	0.14	4.7	0	--	--
U.S. Total	4,660	3.25	10.9	5,504	0.31	5.7	1,021	0.77	14.8

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 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, March 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	3.16	8.8	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	3.16	8.8	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	3.16	8.8	0	--	--	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 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, March 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	11	2.71	7.9	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.71	7.9	0	--	--	0	--	--
East North Central	108	3.64	8.2	64	0.80	6.5	0	--	--
Illinois	107	3.67	8.3	64	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.82	6.5	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	32	3.55	8.0	229	0.21	4.5	0	--	--
Iowa	32	3.55	8.0	154	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	74	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	87	0.97	9.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	6	0.71	7.0	0	--	--	0	--	--
Georgia	11	1.00	10.2	0	--	--	0	--	--
Maryland	17	1.80	21.6	0	--	--	0	--	--
North Carolina	25	0.82	6.9	0	--	--	0	--	--
South Carolina	3	0.71	6.6	0	--	--	0	--	--
Virginia	24	0.74	7.2	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	76	0.97	8.7	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	76	0.97	8.7	0	--	--	0	--	--
West South Central	10	0.39	10.1	30	0.18	4.4	0	--	--
Arkansas	10	0.39	10.1	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	30	0.18	4.4	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	76	0.55	10.4	0	--	--	0	--	--
California	76	0.55	10.4	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	400	1.78	9.1	323	0.33	4.9	0	--	--

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W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 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, 2008 - March 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,411,058	1,367,191	976,715	7,497	3,762,462
2017	1,378,819	1,349,208	946,443	7,524	3,681,995
Year 2016					
January	130,972	110,410	78,848	660	320,890
February	115,959	103,452	76,748	646	296,806
March	100,227	105,739	79,237	609	285,812
April	88,244	102,045	78,647	595	269,531
May	94,198	108,437	81,491	581	284,708
June	125,211	120,363	83,672	631	329,878
July	154,409	130,038	87,076	648	372,172
August	156,442	135,019	89,101	631	381,192
Sept	129,363	123,493	83,259	637	336,752
October	101,508	112,963	81,597	613	296,681
November	93,244	105,060	78,421	592	277,317
December	121,281	110,172	78,616	653	310,722
Year 2017					
January	129,253	109,414	75,814	666	315,148
February	101,349	99,607	71,958	636	273,550
March	103,434	107,171	77,587	644	288,836
April	90,966	101,796	75,917	590	269,269
May	98,977	109,912	80,147	583	289,619
June	122,034	119,289	82,224	629	324,176
July	149,075	128,324	84,240	630	362,268
August	142,026	128,144	85,905	641	356,716
Sept	119,077	118,836	80,260	619	318,793
October	102,983	113,036	79,471	626	296,116
November	97,870	104,959	76,195	598	279,622
December	121,775	108,720	76,724	663	307,882
Year 2018					
January	148,985	114,531	75,948	748	340,212
February	113,334	101,791	71,996	638	287,759
March	106,061	106,965	76,785	625	290,435
Year to Date					
2016	347,158	319,601	234,834	1,915	903,508
2017	334,037	316,192	225,359	1,947	877,534
2018	368,380	323,287	224,728	2,011	918,407
Rolling 12 Months Ending in March					
2017	1,397,937	1,363,782	967,241	7,528	3,736,487
2018	1,413,162	1,356,304	945,812	7,589	3,722,867

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - March 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	177,077	142,643	66,068	722	386,509
2017	177,860	144,108	65,394	727	388,089
Year 2016					
January	15,704	11,133	5,080	63	31,980
February	14,076	10,605	4,927	62	29,670
March	12,593	10,815	5,122	58	28,587
April	10,967	10,398	5,065	57	26,486
May	12,048	11,184	5,357	54	28,643
June	15,942	12,828	5,879	62	34,710
July	19,575	13,891	6,294	64	39,823
August	20,157	14,530	6,440	63	41,191
Sept	16,652	13,298	5,947	64	35,961
October	12,648	11,914	5,491	59	30,111
November	11,886	10,840	5,225	55	28,007
December	14,830	11,206	5,242	62	31,339
Year 2017					
January	15,783	11,190	4,988	62	32,023
February	12,952	10,439	4,763	60	28,215
March	13,332	11,224	5,224	61	29,841
April	11,542	10,584	5,021	56	27,203
May	12,879	11,633	5,459	56	30,027
June	16,123	13,120	5,937	64	35,243
July	19,547	14,108	6,194	64	39,912
August	18,727	14,153	6,231	64	39,175
Sept	15,838	13,150	5,795	62	34,844
October	13,220	12,231	5,525	60	31,036
November	12,691	11,054	5,171	57	28,974
December	15,226	11,222	5,084	62	31,594
Year 2018					
January	18,217	11,995	5,290	71	35,573
February	14,303	10,793	4,863	62	30,021
March	13,780	11,194	5,097	58	30,129
Year to Date					
2016	42,373	32,553	15,128	183	90,237
2017	42,067	32,853	14,976	184	90,079
2018	46,300	33,982	15,250	191	95,723
Rolling 12 Months Ending in March					
2017	176,771	142,942	65,915	722	386,351
2018	182,093	145,237	65,668	735	393,733

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.3. Average Price of Electricity to Ultimate Customers:
Total by End-Use Sector, 2008 - March 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.43	6.76	9.63	10.27
2017	12.90	10.68	6.91	9.67	10.54
Year 2016					
January	11.99	10.08	6.44	9.52	9.97
February	12.14	10.25	6.42	9.61	10.00
March	12.56	10.23	6.46	9.56	10.00
April	12.43	10.19	6.44	9.53	9.83
May	12.79	10.31	6.57	9.28	10.06
June	12.73	10.66	7.03	9.75	10.52
July	12.68	10.68	7.23	9.84	10.70
August	12.88	10.76	7.23	10.04	10.81
Sept	12.87	10.77	7.14	10.00	10.68
October	12.46	10.55	6.73	9.62	10.15
November	12.75	10.32	6.66	9.22	10.10
December	12.23	10.17	6.67	9.49	10.09
Year 2017					
January	12.21	10.23	6.58	9.38	10.16
February	12.78	10.48	6.62	9.47	10.31
March	12.89	10.47	6.73	9.47	10.33
April	12.69	10.40	6.61	9.44	10.10
May	13.01	10.58	6.81	9.58	10.37
June	13.21	11.00	7.22	10.14	10.87
July	13.11	10.99	7.35	10.11	11.02
August	13.19	11.04	7.25	10.05	10.98
Sept	13.30	11.07	7.22	9.99	10.93
October	12.84	10.82	6.95	9.55	10.48
November	12.97	10.53	6.79	9.49	10.36
December	12.50	10.32	6.63	9.32	10.26
Year 2018					
January	12.23	10.47	6.97	9.46	10.46
February	12.62	10.60	6.75	9.74	10.43
March	12.99	10.47	6.64	9.33	10.37
Year to Date					
2016	12.21	10.19	6.44	9.56	9.99
2017	12.59	10.39	6.65	9.44	10.27
2018	12.57	10.51	6.79	9.51	10.42
Rolling 12 Months Ending in March					
2017	12.65	10.48	6.81	9.59	10.34
2018	12.89	10.71	6.94	9.68	10.58

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, March 2018 and 2017 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	3,780	4,089	4,102	4,684	1,274	1,404	49	53	9,205	10,229
Connecticut	1,026	1,020	968	976	244	243	14	18	2,252	2,257
Maine	426	442	340	362	214	220	0	0	981	1,023
Massachusetts	1,547	1,828	1,976	2,521	485	601	32	33	4,039	4,984
New Hampshire	376	367	357	352	155	160	0	0	887	879
Rhode Island	233	250	292	305	60	64	2	2	588	621
Vermont	173	181	169	168	116	116	0	0	457	466
Middle Atlantic	10,769	10,642	12,582	12,362	5,831	5,790	324	330	29,506	29,123
New Jersey	2,131	2,125	3,090	3,101	538	627	27	26	5,786	5,880
New York	3,932	3,942	5,970	5,731	1,353	1,287	237	237	11,492	11,197
Pennsylvania	4,705	4,575	3,522	3,529	3,940	3,877	61	66	12,228	12,047
East North Central	14,734	14,251	14,814	14,926	15,534	15,494	49	41	45,130	44,712
Illinois	3,408	3,232	4,074	4,007	3,396	3,466	43	35	10,920	10,739
Indiana	2,604	2,445	1,896	1,918	3,513	3,468	2	2	8,016	7,833
Michigan	2,689	2,700	3,078	3,158	2,550	2,464	1	0	8,319	8,322
Ohio	4,255	4,112	3,819	3,854	4,080	4,112	3	4	12,157	12,082
Wisconsin	1,777	1,762	1,946	1,990	1,995	1,985	0	0	5,718	5,736
West North Central	8,467	7,917	8,330	8,146	7,125	7,136	4	4	23,927	23,203
Iowa	1,202	1,126	1,017	1,002	1,848	1,889	0	0	4,067	4,017
Kansas	939	860	1,197	1,178	847	855	0	0	2,983	2,893
Minnesota	1,873	1,849	1,931	1,925	1,752	1,740	2	2	5,558	5,516
Missouri	2,651	2,411	2,408	2,354	926	956	2	2	5,987	5,723
Nebraska	865	788	775	714	838	839	0	0	2,478	2,341
North Dakota	479	473	581	567	689	642	0	0	1,749	1,682
South Dakota	458	410	422	406	224	215	0	0	1,104	1,031
South Atlantic	26,585	25,426	24,672	24,412	11,615	11,460	103	116	62,974	61,414
Delaware	421	387	350	328	169	168	0	0	940	883
District of Columbia	206	186	703	644	15	14	27	25	950	869
Florida	8,224	7,889	7,277	7,153	1,329	1,342	6	8	16,836	16,391
Georgia	3,917	3,799	3,520	3,575	2,629	2,607	13	13	10,079	9,994
Maryland	2,442	2,232	2,433	2,333	304	300	43	55	5,223	4,920
North Carolina	4,437	4,287	3,711	3,723	2,246	2,217	0	0	10,394	10,227
South Carolina	2,063	2,064	1,663	1,693	2,184	2,154	0	0	5,909	5,911
Virginia	3,782	3,520	4,334	4,299	1,447	1,498	13	14	9,576	9,331
West Virginia	1,092	1,063	681	665	1,293	1,159	0	0	3,066	2,887
East South Central	8,357	8,149	6,892	6,702	8,120	8,271	0	0	23,369	23,122
Alabama	2,135	2,128	1,679	1,715	2,885	2,769	0	0	6,699	6,613
Kentucky	2,086	1,955	1,536	1,473	2,352	2,307	0	0	5,974	5,735
Mississippi	1,200	1,181	1,018	1,009	1,384	1,363	0	0	3,602	3,554
Tennessee	2,936	2,885	2,658	2,504	1,499	1,832	0	0	7,093	7,221
West South Central	13,956	13,486	14,597	14,526	14,018	14,623	15	14	42,586	42,649
Arkansas	1,318	1,218	881	907	1,417	1,318	0	0	3,616	3,443
Louisiana	1,902	1,938	1,829	1,863	2,628	2,578	1	1	6,360	6,379
Oklahoma	1,507	1,514	1,520	1,615	1,429	1,405	0	0	4,457	4,534
Texas	9,229	8,815	10,367	10,141	8,543	9,323	14	13	28,153	28,292
Mountain	6,821	6,717	7,638	7,540	6,383	6,454	13	12	20,855	20,723
Arizona	1,983	2,042	2,171	2,229	1,105	1,132	1	1	5,259	5,404
Colorado	1,454	1,428	1,667	1,653	1,293	1,257	8	6	4,422	4,344
Idaho	750	701	518	513	516	522	0	0	1,784	1,736
Montana	513	450	419	409	328	340	0	0	1,260	1,199
Nevada	748	766	952	852	920	987	1	1	2,621	2,606
New Mexico	467	454	706	684	627	592	0	0	1,799	1,730
Utah	646	630	889	876	734	773	4	5	2,273	2,283
Wyoming	261	246	316	323	859	852	0	0	1,436	1,421
Pacific Contiguous	12,186	12,346	12,867	13,378	6,492	6,536	67	74	31,612	32,335
California	6,728	6,872	9,041	9,436	3,550	3,564	65	72	19,384	19,944
Oregon	1,819	1,772	1,315	1,361	916	922	2	2	4,052	4,057
Washington	3,638	3,703	2,511	2,581	2,026	2,051	1	0	8,176	8,335
Pacific Noncontiguous	407	413	471	496	393	417	0	0	1,272	1,325
Alaska	190	198	236	241	113	118	0	0	539	558
Hawaii	217	215	236	254	280	299	0	0	733	768
U.S. Total	106,061	103,434	106,965	107,171	76,785	77,587	625	644	290,435	288,836

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 March 2018 and 2017 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	12,684	12,799	12,741	13,984	3,817	4,099	149	152	29,391	31,033
Connecticut	3,405	3,286	2,959	2,966	718	728	45	49	7,126	7,029
Maine	1,311	1,310	1,006	1,020	644	635	0	0	2,961	2,965
Massachusetts	5,386	5,694	6,301	7,556	1,469	1,732	96	96	13,252	15,078
New Hampshire	1,247	1,200	1,078	1,085	463	472	0	0	2,788	2,757
Rhode Island	740	746	901	869	181	183	7	7	1,830	1,805
Vermont	595	563	496	489	342	348	0	0	1,433	1,400
Middle Atlantic	35,437	33,151	38,797	38,042	17,670	17,290	1,087	1,018	92,991	89,502
New Jersey	6,718	6,391	9,346	9,146	1,694	1,764	85	79	17,842	17,380
New York	12,865	12,249	18,541	18,263	4,162	3,889	816	722	36,385	35,124
Pennsylvania	15,854	14,511	10,910	10,633	11,814	11,637	186	217	38,764	36,998
East North Central	49,700	45,661	44,876	44,017	44,913	44,537	164	144	139,653	134,359
Illinois	11,568	10,572	12,438	12,138	10,215	10,060	144	125	34,365	32,894
Indiana	9,144	8,019	5,830	5,641	9,944	9,877	6	5	24,924	23,542
Michigan	8,695	8,417	9,270	9,282	7,315	7,122	2	1	25,282	24,822
Ohio	14,454	13,003	11,410	11,100	11,654	11,735	12	13	37,531	35,851
Wisconsin	5,839	5,650	5,928	5,856	5,785	5,744	0	0	17,552	17,251
West North Central	29,431	26,790	25,412	24,487	20,916	20,553	15	13	75,773	71,843
Iowa	4,069	3,797	3,122	3,031	5,479	5,334	0	0	12,670	12,162
Kansas	3,286	2,911	3,646	3,486	2,608	2,565	0	0	9,539	8,962
Minnesota	6,120	5,979	5,737	5,678	5,044	4,977	8	7	16,909	16,641
Missouri	9,833	8,401	7,479	7,084	2,711	2,761	7	7	20,029	18,253
Nebraska	2,956	2,710	2,371	2,266	2,390	2,399	0	0	7,716	7,375
North Dakota	1,669	1,579	1,778	1,694	2,026	1,867	0	0	5,472	5,140
South Dakota	1,498	1,412	1,280	1,248	658	650	0	0	3,436	3,311
South Atlantic	93,570	80,229	72,956	70,647	32,968	32,593	310	330	199,804	183,799
Delaware	1,392	1,223	1,035	980	478	491	0	0	2,905	2,695
District of Columbia	663	588	1,987	1,892	42	39	75	77	2,768	2,595
Florida	27,185	24,204	21,182	20,845	3,851	3,890	18	22	52,237	48,962
Georgia	14,676	12,271	10,943	10,478	7,580	7,492	43	43	33,243	30,285
Maryland	7,960	6,927	7,222	6,900	850	865	129	143	16,161	14,835
North Carolina	16,368	13,619	11,333	10,854	6,213	6,235	1	1	33,914	30,709
South Carolina	8,116	6,620	4,998	4,815	6,368	6,342	0	0	19,482	17,778
Virginia	13,575	11,633	12,286	12,018	4,051	4,017	42	45	29,955	27,712
West Virginia	3,635	3,144	1,969	1,864	3,534	3,221	0	0	9,137	8,229
East South Central	33,100	27,481	21,734	20,246	23,428	24,024	0	0	78,262	71,751
Alabama	8,300	6,884	5,282	5,052	8,262	8,023	0	0	21,844	19,959
Kentucky	7,646	6,466	4,668	4,419	6,750	6,693	0	0	19,063	17,578
Mississippi	4,940	4,017	3,170	3,059	4,057	3,997	0	0	12,168	11,074
Tennessee	12,214	10,114	8,614	7,715	4,359	5,310	0	0	25,187	23,139
West South Central	54,705	45,123	44,827	42,376	41,931	43,163	47	45	141,510	130,708
Arkansas	5,164	4,277	2,750	2,674	4,129	3,909	0	0	12,042	10,860
Louisiana	7,750	6,386	5,716	5,516	8,202	8,104	3	3	21,671	20,010
Oklahoma	5,938	5,039	4,609	4,443	4,254	4,091	0	0	14,801	13,573
Texas	35,854	29,422	31,752	29,742	25,346	27,059	44	42	92,995	86,265
Mountain	21,519	22,019	22,419	22,149	18,780	18,885	39	35	62,757	63,089
Arizona	6,050	6,283	6,298	6,351	3,226	3,260	2	2	15,575	15,896
Colorado	4,578	4,571	4,894	4,856	3,746	3,595	23	17	13,241	13,039
Idaho	2,402	2,586	1,583	1,603	1,507	1,513	0	0	5,491	5,703
Montana	1,625	1,645	1,295	1,303	1,030	1,046	0	0	3,950	3,994
Nevada	2,325	2,381	2,599	2,398	2,760	2,935	2	2	7,685	7,716
New Mexico	1,604	1,579	2,073	2,003	1,800	1,723	0	0	5,477	5,305
Utah	2,093	2,112	2,719	2,660	2,160	2,251	13	15	6,985	7,038
Wyoming	842	863	958	973	2,551	2,562	0	0	4,352	4,398
Pacific Contiguous	37,001	39,532	38,103	38,790	19,142	19,019	201	209	94,446	97,550
California	20,021	21,318	26,391	26,743	10,506	10,362	192	201	57,110	58,624
Oregon	5,695	6,141	4,038	4,123	2,718	2,716	7	7	12,457	12,987
Washington	11,286	12,073	7,674	7,924	5,918	5,942	2	1	24,879	25,939
Pacific Noncontiguous	1,233	1,251	1,423	1,454	1,164	1,195	0	0	3,820	3,900
Alaska	600	629	722	741	347	350	0	0	1,669	1,720
Hawaii	634	622	701	712	817	846	0	0	2,152	2,180
U.S. Total	368,380	334,037	323,287	316,192	224,728	225,359	2,011	1,947	918,407	877,534

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

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, March 2018 and 2017 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	783	761	668	680	165	173	4	4	1,619	1,618
Connecticut	216	205	160	156	34	32	1	2	412	395
Maine	67	70	41	45	20	21	0	0	127	137
Massachusetts	348	340	338	357	70	80	2	2	758	778
New Hampshire	75	70	55	52	20	20	0	0	150	141
Rhode Island	47	45	48	46	9	9	0	0	104	100
Vermont	30	32	26	24	12	12	0	0	68	68
Middle Atlantic	1,672	1,646	1,466	1,508	382	406	36	36	3,556	3,595
New Jersey	328	331	357	375	51	62	2	2	739	770
New York	689	671	798	815	74	76	29	29	1,590	1,590
Pennsylvania	654	644	312	318	256	269	4	5	1,227	1,236
East North Central	1,958	1,917	1,496	1,539	1,066	1,104	3	3	4,523	4,563
Illinois	434	445	354	387	212	234	3	2	1,002	1,068
Indiana	316	293	199	197	250	256	0	0	766	746
Michigan	418	415	353	350	190	182	0	0	962	947
Ohio	534	508	381	388	267	282	0	0	1,183	1,178
Wisconsin	256	256	208	218	146	150	0	0	611	624
West North Central	971	903	775	744	503	498	0	0	2,250	2,146
Iowa	145	131	94	85	111	100	0	0	349	316
Kansas	125	114	124	121	58	64	0	0	308	300
Minnesota	238	233	191	188	129	132	0	0	559	553
Missouri	278	251	209	198	60	60	0	0	547	510
Nebraska	89	83	67	63	70	70	0	0	226	216
North Dakota	46	45	51	50	59	55	0	0	156	150
South Dakota	50	46	38	38	17	17	0	0	105	101
South Atlantic	3,135	3,022	2,314	2,305	723	726	7	9	6,179	6,062
Delaware	52	54	33	36	12	14	0	0	97	103
District of Columbia	25	24	74	77	1	1	2	2	102	104
Florida	967	926	693	688	104	106	0	1	1,765	1,720
Georgia	444	445	344	364	134	147	1	1	923	957
Maryland	317	316	246	252	25	25	3	4	591	597
North Carolina	496	471	320	318	130	132	0	0	947	921
South Carolina	267	260	175	173	131	127	0	0	574	560
Virginia	443	403	361	333	100	97	1	1	905	834
West Virginia	125	122	66	65	85	78	0	0	276	266
East South Central	962	920	740	709	458	490	0	0	2,160	2,119
Alabama	270	273	193	201	167	170	0	0	631	644
Kentucky	220	205	148	141	122	129	0	0	489	476
Mississippi	144	136	112	106	84	82	0	0	341	324
Tennessee	327	307	286	261	85	108	0	0	699	676
West South Central	1,556	1,459	1,226	1,214	752	790	1	1	3,535	3,463
Arkansas	138	120	76	72	79	73	0	0	293	265
Louisiana	186	183	171	169	150	147	0	0	507	500
Oklahoma	164	159	116	121	71	74	0	0	350	354
Texas	1,068	996	863	851	452	496	1	1	2,385	2,345
Mountain	796	773	713	697	390	400	1	1	1,900	1,871
Arizona	246	240	219	218	65	65	0	0	530	523
Colorado	171	170	160	158	91	92	1	1	423	420
Idaho	75	69	41	40	30	31	0	0	146	140
Montana	56	48	42	41	16	16	0	0	114	106
Nevada	94	93	77	67	50	50	0	0	221	210
New Mexico	59	58	70	68	39	38	0	0	167	164
Utah	67	68	73	75	39	47	0	0	179	190
Wyoming	29	27	30	31	60	61	0	0	119	119
Pacific Contiguous	1,837	1,827	1,682	1,713	566	549	6	6	4,090	4,094
California	1,290	1,297	1,341	1,369	418	398	5	6	3,055	3,070
Oregon	195	186	118	123	55	57	0	0	369	367
Washington	351	344	223	221	93	93	0	0	667	657
Pacific Noncontiguous	110	105	115	115	92	88	0	0	317	308
Alaska	41	43	44	48	19	21	0	0	104	112
Hawaii	70	62	71	67	73	67	0	0	213	196
U.S. Total	13,780	13,332	11,194	11,224	5,097	5,224	58	61	30,129	29,841

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

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through March 2018 and 2017 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	2,590	2,377	2,109	2,047	515	507	16	14	5,230	4,945
Connecticut	707	648	500	470	104	96	7	5	1,318	1,220
Maine	209	209	126	127	62	60	0	0	397	397
Massachusetts	1,165	1,057	1,082	1,086	220	230	8	7	2,475	2,380
New Hampshire	245	225	172	159	64	59	0	0	481	443
Rhode Island	159	141	155	135	29	26	1	1	344	303
Vermont	105	97	75	70	36	35	0	0	216	203
Middle Atlantic	5,533	5,155	4,683	4,592	1,271	1,200	115	109	11,603	11,057
New Jersey	1,047	1,003	1,127	1,098	177	176	7	7	2,358	2,285
New York	2,292	2,115	2,559	2,527	257	217	94	87	5,202	4,946
Pennsylvania	2,193	2,037	998	967	838	807	14	15	4,043	3,826
East North Central	6,430	5,890	4,531	4,411	3,178	3,132	11	10	14,150	13,442
Illinois	1,443	1,302	1,114	1,069	692	650	10	8	3,259	3,029
Indiana	1,054	934	600	578	712	729	1	1	2,366	2,241
Michigan	1,344	1,291	1,041	1,025	540	525	0	0	2,925	2,841
Ohio	1,758	1,558	1,135	1,100	795	790	1	1	3,689	3,449
Wisconsin	830	806	641	638	440	438	0	0	1,911	1,882
West North Central	3,210	2,929	2,330	2,232	1,474	1,416	1	1	7,015	6,578
Iowa	467	424	286	261	326	289	0	0	1,079	974
Kansas	417	367	374	351	192	189	0	0	983	908
Minnesota	768	747	566	574	379	375	1	1	1,714	1,697
Missouri	956	827	629	587	175	175	0	0	1,761	1,589
Nebraska	286	267	202	195	178	178	0	0	667	639
North Dakota	154	147	154	150	171	160	0	0	479	456
South Dakota	161	151	118	114	51	50	0	0	331	315
South Atlantic	10,863	9,379	6,971	6,669	2,126	2,058	23	26	19,983	18,133
Delaware	170	163	97	102	39	39	0	0	306	304
District of Columbia	83	75	230	220	3	3	6	7	323	305
Florida	3,258	2,825	2,083	2,002	308	305	2	2	5,650	5,135
Georgia	1,600	1,389	1,080	1,046	437	414	2	2	3,120	2,852
Maryland	1,042	987	771	766	75	73	9	11	1,896	1,838
North Carolina	1,775	1,475	991	926	382	372	0	0	3,148	2,772
South Carolina	991	827	505	498	372	371	0	0	1,867	1,696
Virginia	1,534	1,278	1,027	928	277	262	4	3	2,842	2,471
West Virginia	409	360	188	181	233	218	0	0	830	759
East South Central	3,595	3,045	2,284	2,141	1,344	1,418	0	0	7,223	6,605
Alabama	1,001	864	600	592	481	480	0	0	2,082	1,936
Kentucky	777	674	444	425	366	376	0	0	1,587	1,476
Mississippi	547	443	341	316	243	243	0	0	1,132	1,002
Tennessee	1,270	1,063	899	809	253	319	0	0	2,421	2,191
West South Central	5,763	4,758	3,757	3,547	2,278	2,281	4	4	11,802	10,590
Arkansas	506	409	236	216	239	216	0	0	981	841
Louisiana	702	559	519	476	434	406	0	0	1,654	1,442
Oklahoma	573	507	356	343	216	210	0	0	1,144	1,060
Texas	3,983	3,283	2,646	2,511	1,389	1,449	4	4	8,022	7,247
Mountain	2,490	2,483	2,075	2,024	1,146	1,148	4	3	5,714	5,659
Arizona	742	726	635	618	193	191	0	0	1,571	1,535
Colorado	534	537	464	456	265	256	2	2	1,264	1,251
Idaho	244	247	125	122	88	88	0	0	457	457
Montana	175	175	129	130	51	51	0	0	354	356
Nevada	290	282	210	189	148	146	0	0	649	617
New Mexico	196	197	200	197	105	104	0	0	501	498
Utah	218	226	220	221	122	132	1	2	561	581
Wyoming	92	93	91	92	173	180	0	0	356	364
Pacific Contiguous	5,497	5,738	4,901	4,861	1,653	1,565	17	17	12,068	12,181
California	3,811	3,977	3,869	3,828	1,217	1,130	16	16	8,913	8,951
Oregon	607	643	358	364	163	166	1	1	1,129	1,174
Washington	1,079	1,118	674	669	273	269	0	0	2,026	2,056
Pacific Noncontiguous	329	311	340	329	266	250	0	0	935	890
Alaska	128	132	136	141	59	60	0	0	324	332
Hawaii	200	180	205	188	207	190	0	0	612	558
U.S. Total	46,300	42,067	33,982	32,853	15,250	14,976	191	184	95,723	90,079

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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, March 2018 and 2017 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	20.70	18.60	16.28	14.52	12.98	12.35	7.70	7.95	17.59	15.82
Connecticut	21.04	20.06	16.56	16.03	13.92	13.17	10.18	10.20	18.28	17.50
Maine	15.61	15.92	12.07	12.49	9.10	9.61	--	--	12.96	13.35
Massachusetts	22.49	18.58	17.12	14.15	14.41	13.24	5.97	5.92	18.76	15.61
New Hampshire	19.93	18.93	15.35	14.70	13.23	12.32	--	--	16.92	16.04
Rhode Island	20.22	17.96	16.34	15.08	15.22	14.18	16.57	19.19	17.76	16.16
Vermont	17.60	17.39	15.14	14.34	10.66	10.24	--	--	14.94	14.50
Middle Atlantic	15.53	15.46	11.65	12.20	6.55	7.02	10.98	10.84	12.05	12.35
New Jersey	15.41	15.57	11.55	12.08	9.57	9.91	8.40	8.12	12.77	13.09
New York	17.53	17.02	13.36	14.22	5.48	5.87	12.26	12.14	13.83	14.20
Pennsylvania	13.91	14.07	8.86	9.02	6.50	6.93	7.14	7.28	10.03	10.26
East North Central	13.29	13.45	10.10	10.31	6.86	7.13	6.54	7.24	10.02	10.21
Illinois	12.73	13.76	8.69	9.66	6.24	6.75	6.29	6.85	9.18	9.94
Indiana	12.13	11.99	10.52	10.26	7.12	7.37	9.88	11.29	9.55	9.52
Michigan	15.55	15.38	11.48	11.08	7.45	7.39	10.99	11.99	11.56	11.38
Ohio	12.55	12.35	9.99	10.07	6.56	6.86	7.03	8.27	9.73	9.75
Wisconsin	14.41	14.51	10.69	10.94	7.33	7.57	14.76	14.29	10.68	10.87
West North Central	11.46	11.41	9.31	9.13	7.07	6.98	8.08	8.15	9.40	9.25
Iowa	12.05	11.65	9.23	8.48	5.99	5.27	--	--	8.59	7.86
Kansas	13.36	13.30	10.39	10.28	6.84	7.50	--	--	10.32	10.36
Minnesota	12.71	12.58	9.90	9.78	7.38	7.60	8.93	9.34	10.05	10.03
Missouri	10.48	10.43	8.68	8.40	6.46	6.33	7.13	6.88	9.13	8.91
Nebraska	10.25	10.52	8.69	8.88	8.30	8.34	--	--	9.10	9.24
North Dakota	9.65	9.56	8.79	8.84	8.52	8.54	--	--	8.92	8.93
South Dakota	10.84	11.13	9.12	9.46	7.71	7.97	--	--	9.55	9.81
South Atlantic	11.79	11.89	9.38	9.44	6.22	6.34	6.98	8.15	9.81	9.87
Delaware	12.38	13.86	9.31	10.90	7.33	8.31	--	--	10.33	11.70
District of Columbia	12.18	13.04	10.56	11.89	7.94	8.26	7.32	9.65	10.78	12.01
Florida	11.75	11.74	9.53	9.61	7.82	7.87	7.89	8.27	10.48	10.49
Georgia	11.33	11.71	9.78	10.18	5.11	5.64	4.69	5.29	9.16	9.57
Maryland	12.97	14.16	10.12	10.79	8.11	8.34	6.85	8.19	11.31	12.14
North Carolina	11.17	10.99	8.64	8.55	5.81	5.94	8.75	9.50	9.11	9.01
South Carolina	12.97	12.62	10.55	10.23	6.00	5.88	--	--	9.71	9.48
Virginia	11.71	11.45	8.33	7.74	6.90	6.48	8.54	7.87	9.45	8.94
West Virginia	11.43	11.52	9.68	9.79	6.58	6.73	--	--	9.00	9.20
East South Central	11.51	11.29	10.73	10.58	5.64	5.92	--	--	9.24	9.17
Alabama	12.65	12.81	11.50	11.73	5.80	6.13	--	--	9.41	9.73
Kentucky	10.55	10.48	9.60	9.59	5.17	5.61	--	--	8.19	8.29
Mississippi	12.04	11.52	11.05	10.47	6.07	6.04	--	--	9.47	9.12
Tennessee	11.15	10.63	10.78	10.43	5.67	5.91	--	--	9.85	9.36
West South Central	11.15	10.82	8.40	8.36	5.36	5.40	8.67	8.62	8.30	8.12
Arkansas	10.47	9.84	8.64	7.98	5.55	5.52	12.64	9.51	8.09	7.70
Louisiana	9.79	9.45	9.36	9.09	5.69	5.70	9.90	10.44	7.97	7.83
Oklahoma	10.85	10.53	7.61	7.50	4.98	5.23	--	--	7.86	7.81
Texas	11.58	11.30	8.32	8.39	5.29	5.32	8.58	8.48	8.47	8.29
Mountain	11.68	11.51	9.33	9.25	6.10	6.19	9.35	9.69	9.11	9.03
Arizona	12.39	11.73	10.09	9.78	5.89	5.76	8.85	8.67	10.07	9.67
Colorado	11.72	11.90	9.62	9.55	7.04	7.33	8.76	9.66	9.56	9.68
Idaho	9.99	9.92	7.99	7.73	5.85	5.95	--	--	8.21	8.08
Montana	10.84	10.74	10.02	10.04	4.96	4.77	--	--	9.04	8.81
Nevada	12.62	12.17	8.08	7.83	5.43	5.02	7.89	8.04	8.45	8.04
New Mexico	12.67	12.77	9.86	9.99	6.18	6.36	--	--	9.31	9.48
Utah	10.44	10.74	8.21	8.52	5.26	6.06	10.67	10.06	7.90	8.30
Wyoming	11.05	10.91	9.59	9.55	6.94	7.17	--	--	8.27	8.36
Pacific Contiguous	15.07	14.79	13.07	12.80	8.72	8.39	8.43	7.96	12.94	12.66
California	19.17	18.87	14.83	14.51	11.78	11.17	8.38	7.91	15.76	15.39
Oregon	10.74	10.51	8.98	9.02	6.03	6.24	9.24	9.28	9.11	9.04
Washington	9.65	9.28	8.86	8.55	4.60	4.54	10.24	9.86	8.16	7.89
Pacific Noncontiguous	27.12	25.46	24.38	23.24	23.32	21.13	--	--	24.93	23.27
Alaska	21.47	21.58	18.83	19.89	16.81	17.90	--	--	19.33	20.07
Hawaii	32.05	29.04	29.94	26.41	25.96	22.41	--	--	29.04	25.59
U.S. Total	12.99	12.89	10.47	10.47	6.64	6.73	9.33	9.47	10.37	10.33

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 March 2018 and 2017 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD	March 2018 YTD	March 2017 YTD
New England	20.42	18.57	16.56	14.64	13.49	12.38	10.90	9.01	17.80	15.93
Connecticut	20.77	19.72	16.89	15.86	14.46	13.21	15.72	10.69	18.49	17.36
Maine	15.95	15.96	12.54	12.47	9.59	9.52	--	--	13.41	13.38
Massachusetts	21.64	18.57	17.17	14.37	14.95	13.27	8.22	7.40	18.67	15.78
New Hampshire	19.62	18.72	15.93	14.63	13.89	12.53	--	--	17.25	16.05
Rhode Island	21.42	18.86	17.19	15.49	15.99	14.39	16.48	19.08	18.78	16.79
Vermont	17.64	17.30	15.11	14.40	10.67	10.18	--	--	15.10	14.52
Middle Atlantic	15.61	15.55	12.07	12.07	7.20	6.94	10.58	10.70	12.48	12.35
New Jersey	15.59	15.70	12.05	12.01	10.43	9.98	8.47	8.76	13.22	13.15
New York	17.82	17.27	13.80	13.84	6.17	5.57	11.52	11.99	14.30	14.08
Pennsylvania	13.84	14.04	9.15	9.09	7.09	6.94	7.40	7.12	10.43	10.34
East North Central	12.94	12.90	10.10	10.02	7.08	7.03	6.84	6.65	10.13	10.00
Illinois	12.48	12.32	8.96	8.81	6.77	6.47	6.63	6.29	9.48	9.21
Indiana	11.52	11.64	10.30	10.24	7.16	7.38	10.44	11.38	9.49	9.52
Michigan	15.46	15.33	11.23	11.05	7.38	7.37	10.85	12.21	11.57	11.44
Ohio	12.16	11.98	9.95	9.91	6.82	6.73	6.95	7.64	9.83	9.62
Wisconsin	14.22	14.26	10.81	10.90	7.60	7.63	13.52	13.78	10.89	10.91
West North Central	10.91	10.94	9.17	9.12	7.05	6.89	8.08	8.04	9.26	9.16
Iowa	11.48	11.16	9.17	8.62	5.95	5.42	--	--	8.52	8.01
Kansas	12.69	12.62	10.27	10.07	7.37	7.39	--	--	10.31	10.13
Minnesota	12.55	12.49	9.87	10.10	7.52	7.54	9.17	9.36	10.14	10.20
Missouri	9.73	9.85	8.41	8.29	6.47	6.33	6.86	6.69	8.79	8.71
Nebraska	9.67	9.85	8.54	8.59	7.46	7.41	--	--	8.64	8.67
North Dakota	9.24	9.30	8.65	8.86	8.46	8.54	--	--	8.76	8.88
South Dakota	10.77	10.67	9.24	9.17	7.75	7.65	--	--	9.62	9.51
South Atlantic	11.61	11.69	9.56	9.44	6.45	6.32	7.33	7.92	10.00	9.87
Delaware	12.25	13.33	9.37	10.39	8.06	8.02	--	--	10.53	11.29
District of Columbia	12.59	12.72	11.57	11.64	8.18	8.18	8.10	9.51	11.66	11.77
Florida	11.98	11.67	9.83	9.60	8.00	7.85	8.30	8.51	10.82	10.49
Georgia	10.90	11.32	9.87	9.99	5.77	5.53	5.65	4.89	9.38	9.42
Maryland	13.09	14.25	10.67	11.10	8.78	8.47	6.95	7.94	11.73	12.39
North Carolina	10.84	10.83	8.74	8.53	6.14	5.96	8.64	9.06	9.28	9.03
South Carolina	12.21	12.49	10.10	10.34	5.84	5.85	--	--	9.59	9.54
Virginia	11.30	10.99	8.36	7.72	6.84	6.52	8.42	7.73	9.49	8.92
West Virginia	11.25	11.46	9.56	9.73	6.59	6.76	--	--	9.08	9.23
East South Central	10.86	11.08	10.51	10.58	5.73	5.90	--	--	9.23	9.20
Alabama	12.06	12.56	11.36	11.71	5.82	5.98	--	--	9.53	9.70
Kentucky	10.16	10.43	9.51	9.62	5.43	5.62	--	--	8.33	8.39
Mississippi	11.07	11.04	10.77	10.33	6.00	6.08	--	--	9.30	9.05
Tennessee	10.40	10.51	10.43	10.48	5.80	6.01	--	--	9.61	9.47
West South Central	10.53	10.54	8.38	8.37	5.43	5.28	8.51	8.51	8.34	8.10
Arkansas	9.79	9.56	8.58	8.07	5.80	5.53	11.92	11.86	8.14	7.74
Louisiana	9.05	8.76	9.08	8.64	5.29	5.01	9.97	10.07	7.63	7.21
Oklahoma	9.65	10.06	7.72	7.73	5.08	5.14	--	--	7.73	7.81
Texas	11.11	11.16	8.33	8.44	5.48	5.35	8.39	8.39	8.63	8.40
Mountain	11.57	11.28	9.25	9.14	6.10	6.08	9.43	9.82	9.11	8.97
Arizona	12.26	11.55	10.09	9.73	5.99	5.85	8.99	8.62	10.08	9.65
Colorado	11.66	11.75	9.47	9.39	7.07	7.11	8.88	10.03	9.55	9.59
Idaho	10.15	9.56	7.91	7.59	5.87	5.84	--	--	8.33	8.02
Montana	10.74	10.65	9.96	9.96	4.93	4.90	--	--	8.97	8.92
Nevada	12.49	11.85	8.09	7.86	5.37	4.99	7.97	7.75	8.44	8.00
New Mexico	12.23	12.48	9.66	9.83	5.83	6.02	--	--	9.16	9.38
Utah	10.40	10.71	8.10	8.30	5.64	5.88	10.69	9.98	8.03	8.25
Wyoming	10.91	10.73	9.47	9.45	6.80	7.01	--	--	8.18	8.28
Pacific Contiguous	14.86	14.51	12.86	12.53	8.63	8.23	8.60	8.15	12.78	12.49
California	19.03	18.65	14.66	14.31	11.58	10.90	8.57	8.11	15.61	15.27
Oregon	10.66	10.47	8.87	8.83	5.99	6.12	9.21	9.20	9.06	9.04
Washington	9.56	9.26	8.78	8.44	4.61	4.52	9.79	9.64	8.14	7.93
Pacific Noncontiguous	26.64	24.87	23.91	22.63	22.87	20.94	--	--	24.48	22.83
Alaska	21.43	20.90	18.81	18.97	17.08	17.20	--	--	19.39	19.32
Hawaii	31.57	28.89	29.17	26.45	25.33	22.48	--	--	28.42	25.60
U.S. Total	12.57	12.59	10.51	10.39	6.79	6.65	9.51	9.44	10.42	10.27

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 - March 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,068,719	18,148,290	838,099	83	150,055,191
2017	132,572,042	18,323,932	821,267	85	151,717,327
Year 2016					
January	130,327,243	18,001,806	829,287	78	149,158,414
February	130,114,828	18,022,657	825,209	81	148,962,775
March	131,333,340	18,185,531	835,990	86	150,354,947
April	130,452,160	18,064,005	823,879	82	149,340,126
May	131,002,108	18,133,949	840,080	85	149,976,222
June	131,282,771	18,174,804	853,646	86	150,311,307
July	131,086,905	18,130,289	847,849	83	150,065,126
August	131,346,501	18,227,261	859,607	83	150,433,452
Sept	131,374,997	18,207,555	846,336	83	150,428,971
October	131,318,899	18,203,386	838,393	84	150,360,762
November	131,325,418	18,183,746	824,510	84	150,333,758
December	131,859,453	18,244,491	832,403	84	150,936,431
Year 2017					
January	131,863,431	18,225,561	808,008	84	150,897,084
February	131,376,684	18,136,945	797,401	84	150,311,114
March	132,758,623	18,322,415	816,055	84	151,897,177
April	131,802,218	18,162,546	803,225	85	150,768,074
May	133,093,868	18,323,788	829,718	85	152,247,459
June	132,810,755	18,339,737	837,435	85	151,988,012
July	132,296,207	18,344,928	831,768	85	151,472,988
August	132,980,967	18,427,812	847,850	85	152,256,714
Sept	132,427,305	18,344,964	826,688	85	151,599,042
October	133,098,434	18,426,160	829,169	85	152,353,848
November	133,065,798	18,420,680	813,432	85	152,299,995
December	133,290,218	18,411,649	814,459	85	152,516,411
Year 2018					
January	133,315,177	18,481,157	815,775	84	152,612,193
February	132,952,662	18,367,853	771,598	84	152,092,197
March	133,917,871	18,505,704	782,504	84	153,206,163
Rolling 12 Months Ending in March					
2017	131,420,663	18,187,867	832,347	84	150,440,961
2018	132,920,957	18,379,748	816,968	85	152,117,758

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2016 and prior years are final. Values for 2018 and 2017 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State:
March 2018 and 2017

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	6,352,030	6,367,787	893,199	888,133	20,238	26,146	6	6	7,265,473	7,282,072
Connecticut	1,503,458	1,491,620	153,988	152,786	4,302	4,417	3	3	1,661,751	1,648,826
Maine	709,184	712,578	98,942	99,660	3,068	3,143	0	0	811,194	815,381
Massachusetts	2,776,508	2,809,190	416,961	412,686	7,816	13,296	2	2	3,201,287	3,235,174
New Hampshire	621,596	617,910	107,619	108,598	3,167	3,284	0	0	732,382	729,792
Rhode Island	426,979	423,724	58,741	58,399	1,750	1,792	1	1	487,471	483,916
Vermont	314,305	312,765	56,948	56,004	135	214	0	0	371,388	368,983
Middle Atlantic	16,108,785	16,040,352	2,330,293	2,300,101	29,756	42,438	20	20	18,468,854	18,382,911
New Jersey	3,534,410	3,535,445	513,783	516,716	11,556	11,904	6	6	4,059,755	4,064,071
New York	7,180,089	7,143,576	1,104,955	1,085,563	6,721	7,541	8	8	8,291,773	8,236,688
Pennsylvania	5,394,286	5,361,331	711,555	697,822	11,479	22,993	6	6	6,117,326	6,082,152
East North Central	20,241,661	20,118,376	2,499,890	2,482,674	46,460	52,484	9	8	22,788,020	22,653,542
Illinois	5,311,376	5,269,303	614,713	605,965	4,009	5,492	3	3	5,930,101	5,880,763
Indiana	2,852,523	2,829,983	352,212	349,284	15,188	17,413	1	1	3,219,924	3,196,681
Michigan	4,383,372	4,361,667	549,771	548,316	NM	NM	2	1	4,938,574	4,915,849
Ohio	4,986,097	4,965,684	627,429	624,877	17,057	18,943	2	2	5,630,585	5,609,506
Wisconsin	2,708,293	2,691,739	355,765	354,232	NM	NM	1	1	3,068,836	3,050,743
West North Central	9,533,297	9,440,142	1,460,950	1,443,954	109,292	113,321	3	3	11,103,542	10,997,420
Iowa	1,395,420	1,382,302	244,849	242,574	NM	NM	0	0	1,647,016	1,631,733
Kansas	1,277,303	1,261,920	235,366	231,705	24,963	25,280	0	0	1,537,632	1,518,905
Minnesota	2,407,523	2,385,712	290,964	288,279	NM	NM	1	1	2,706,441	2,682,127
Missouri	2,810,137	2,783,034	379,975	375,615	6,822	8,238	2	2	3,196,936	3,166,889
Nebraska	860,616	852,495	162,783	160,171	51,814	53,841	0	0	1,075,213	1,066,507
North Dakota	379,869	377,246	73,555	73,094	8,001	7,960	0	0	461,425	458,300
South Dakota	402,429	397,433	73,458	72,516	NM	NM	0	0	478,879	472,959
South Atlantic	27,926,175	27,525,633	3,801,559	3,738,294	78,011	79,460	13	13	31,805,758	31,343,400
Delaware	427,575	422,206	54,694	53,504	598	1,118	0	0	482,867	476,828
District of Columbia	272,986	265,972	26,236	26,065	1	1	3	3	299,226	292,041
Florida	9,404,999	9,220,903	1,241,819	1,217,849	20,239	20,680	2	2	10,667,059	10,459,434
Georgia	4,367,109	4,311,839	583,587	574,293	19,237	19,267	1	1	4,969,934	4,905,400
Maryland	2,330,699	2,310,350	253,165	251,724	8,730	8,830	5	5	2,592,599	2,570,909
North Carolina	4,546,328	4,482,122	701,583	682,302	9,787	9,917	1	1	5,257,699	5,174,342
South Carolina	2,284,350	2,251,822	366,372	360,698	4,220	4,249	0	0	2,654,942	2,616,769
Virginia	3,430,695	3,399,453	430,081	428,135	3,733	3,773	1	1	3,864,510	3,831,362
West Virginia	861,434	860,966	144,022	143,724	11,466	11,625	0	0	1,016,922	1,016,315
East South Central	8,447,316	8,379,555	1,398,437	1,381,221	22,702	24,555	0	0	9,868,455	9,785,331
Alabama	2,252,017	2,236,177	370,532	366,416	8,183	8,134	0	0	2,630,732	2,610,727
Kentucky	1,994,202	1,982,869	302,162	299,348	6,170	7,560	0	0	2,302,534	2,289,777
Mississippi	1,313,562	1,306,042	239,467	236,454	7,511	7,516	0	0	1,560,540	1,550,012
Tennessee	2,887,535	2,854,467	486,276	479,003	838	1,345	0	0	3,374,649	3,334,815
West South Central	16,147,273	15,803,640	2,268,788	2,230,721	184,160	181,789	6	6	18,600,227	18,216,156
Arkansas	1,392,263	1,382,638	191,902	190,390	29,404	29,583	2	2	1,613,571	1,602,613
Louisiana	2,096,263	2,084,249	292,561	291,571	18,461	18,752	1	1	2,407,286	2,394,573
Oklahoma	1,780,567	1,763,734	285,071	281,432	17,872	17,981	0	0	2,083,510	2,063,147
Texas	10,878,180	10,573,019	1,499,254	1,467,328	118,423	115,473	3	3	12,495,860	12,155,823
Mountain	9,777,644	9,629,620	1,389,662	1,376,912	85,738	85,924	5	5	11,253,049	11,092,461
Arizona	2,795,450	2,755,258	320,564	318,750	6,575	6,934	2	2	3,122,591	3,080,944
Colorado	2,315,995	2,278,866	363,046	359,610	13,920	13,948	1	1	2,692,962	2,652,425
Idaho	737,832	722,614	109,956	108,192	28,179	27,980	0	0	875,967	858,786
Montana	510,824	504,408	110,203	108,459	NM	NM	0	0	627,097	618,989
Nevada	1,173,747	1,157,203	163,748	162,374	NM	NM	1	1	1,340,769	1,322,772
New Mexico	900,843	893,017	139,185	138,617	8,478	8,575	0	0	1,048,506	1,040,209
Utah	1,069,048	1,046,128	124,240	122,343	9,520	9,437	1	1	1,202,809	1,177,909
Wyoming	273,905	272,126	58,720	58,567	9,723	9,734	0	0	342,348	340,427
Pacific Contiguous	18,659,515	18,735,776	2,349,397	2,365,845	203,984	207,797	22	23	21,212,918	21,309,441
California	13,844,337	13,972,795	1,711,459	1,735,371	152,322	155,507	14	15	15,708,132	15,863,688
Oregon	1,754,433	1,733,939	240,678	237,972	23,440	23,492	2	2	2,018,553	1,995,405
Washington	3,060,745	3,029,042	397,260	392,502	28,222	28,798	6	6	3,486,233	3,450,348
Pacific Noncontiguous	724,175	717,742	113,529	114,560	NM	NM	0	0	839,867	834,443
Alaska	288,207	285,619	53,704	53,221	NM	NM	0	0	343,285	340,198
Hawaii	435,968	432,123	59,825	61,339	789	783	0	0	496,582	494,245
U.S. Total	133,917,871	132,758,623	18,505,704	18,322,415	782,504	816,055	84	84	153,206,163	151,897,177

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), February 2018 to March 2018

		As of End of February 2018	Activity During March 2018 as Reported to EIA		As of End of March 2018	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*	*88,744.5*	*1.5*	*165.9*	*88,580.1*	*-164.4*	*1,065.8*	*5,618.0*	*210.9*	*6,413.2*	*3.0*	*25.5*	*207.9*	*6,387.7*	*88,788.0*	*94,967.8*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	88,773.8	1.5	165.9	88,609.4	-164.4	1,065.8	5,618.0	210.9	6,413.2	3.0	25.5	207.9	6,387.7	88,817.3	94,997.1
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*25,809.8*	*592.0*	*11.6*	*26,390.2*	*580.4*	*1,483.4*	*5,376.9*	*79.6*	*4,352.2*	*0.0*	*0.8*	*79.6*	*4,351.4*	*26,469.8*	*30,741.6*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.4*	*0.0*	*0.0*	*405.4*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	27,567.7	592.0	11.6	28,148.1	580.4	1,483.4	5,376.9	79.6	4,352.2	0.0	0.8	79.6	4,351.4	28,227.7	32,499.5
..... Conventional Hydroelectric	Utility Scale Facilities	80,056.7	8.8	111.0	79,954.5	-102.2	-103.3	39.2	11.0	246.5	0.0	6.9	11.0	239.6	79,965.5	80,194.1
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,969.9*	*9.3*	*95.2*	*8,884.0*	*-85.9*	*-178.4*	*-116.6*	*6.0*	*173.9*	*25.0*	*25.0*	*-19.0*	*148.9*	*8,865.0*	*9,032.9*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,087.5*	*25.8*	*6.6*	*2,106.7*	*19.2*	*-1.4*	*3.7*	*0.0*	*4.2*	*1.0*	*6.7*	*-1.0*	*-2.5*	*2,105.7*	*2,104.2*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,244.8*	*4.3*	*4.1*	*2,245.0*	*0.2*	*-1.8*	*-3.4*	*0.0*	*0.0*	*0.0*	*10.0*	*0.0*	*-10.0*	*2,245.0*	*2,235.0*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*782.2*	*0.0*	*4.0*	*778.2*	*-4.0*	*0.0*	*28.2*	*50.4*	*84.4*	*0.0*	*0.0*	*50.4*	*84.4*	*828.6*	*862.6*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,084.4	39.4	109.9	14,013.9	-70.5	-181.6	-88.1	56.4	262.5	26.0	41.7	30.4	220.8	14,044.3	14,234.7
..... Geothermal	Utility Scale Facilities	2,486.6	0.0	1.0	2,485.6	-1.0	-7.0	30.0	0.0	39.9	0.0	0.0	0.0	39.9	2,485.6	2,525.5
... Renewable Sources Subtotal	***Utility Scale Facilities***	***212,969.2***	***641.7***	***399.4***	***213,211.5***	***242.3***	***2,257.3***	***10,976.0***	***357.9***	***11,314.3***	***29.0***	***74.9***	***328.9***	***11,239.4***	***213,540.4***	***224,450.9***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*246,753.8*	*601.3*	*376.1*	*246,979.0*	*225.2*	*603.1*	*7,544.6*	*5,280.6*	*17,881.7*	*0.0*	*213.0*	*5,280.6*	*17,668.7*	*252,259.6*	*264,647.7*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,697.0*	*179.9*	*21.6*	*126,855.3*	*158.3*	*-349.4*	*366.3*	*575.0*	*2,058.5*	*0.0*	*358.4*	*575.0*	*1,700.1*	*127,430.3*	*128,555.4*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*76,457.9*	*347.4*	*273.8*	*76,531.5*	*73.6*	*1,821.0*	*296.4*	*0.0*	*1.0*	*25.0*	*2,333.8*	*-25.0*	*-2,332.8*	*76,506.5*	*74,198.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,303.9*	*89.1*	*15.2*	*4,377.8*	*73.9*	*92.9*	*168.1*	*0.0*	*366.2*	*0.0*	*4.8*	*0.0*	*361.4*	*4,377.8*	*4,739.2*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*121.8*	*0.0*	*0.0*	*121.8*	*0.0*	*0.0*	*0.0*	*0.0*	*32.0*	*0.0*	*0.0*	*0.0*	*32.0*	*121.8*	*153.8*
..... Natural Gas Subtotal	Utility Scale Facilities	454,444.4	1,217.7	686.7	454,975.4	531.0	2,167.6	8,375.4	5,855.6	20,339.4	25.0	2,910.0	5,830.6	17,429.4	460,806.0	472,404.8
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*251,773.7*	*115.2*	*352.4*	*251,536.5*	*-237.2*	*-7,913.7*	*-13,638.5*	*0.0*	*697.0*	*1,511.0*	*8,239.5*	*-1,511.0*	*-7,542.5*	*250,025.5*	*243,994.0*
..... *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	252,588.7	115.2	352.4	252,351.5	-237.2	-7,913.7	-13,638.5	0.0	697.0	1,511.0	8,239.5	-1,511.0	-7,542.5	250,840.5	244,809.0
..... Petroleum Coke	Utility Scale Facilities	1,468.9	0.0	0.0	1,468.9	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1,468.9	1,468.9
..... Petroleum Liquids	Utility Scale Facilities	32,247.2	2.2	66.9	32,182.5	-64.7	-40.7	-778.5	4.9	30.0	5.3	241.6	-0.4	-211.6	32,182.1	31,970.9
..... Other Gases	Utility Scale Facilities	2,479.2	0.0	30.4	2,448.8	-30.4	-8.1	-8.1	0.0	0.0	0.0	0.0	0.0	0.0	2,448.8	2,448.8
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***743,228.4***	***1,335.1***	***1,136.4***	***743,427.1***	***198.7***	***-5,792.7***	***-6,047.5***	***5,860.5***	***21,066.4***	***1,541.3***	***11,391.1***	***4,319.2***	***9,675.3***	***747,746.3***	***753,102.4***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,809.7	0.0	0.0	22,809.7	0.0	1.0	31.0	0.0	57.0	0.0	0.0	0.0	57.0	22,809.7	22,866.7
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	684.2	2.0	0.2	686.0	1.8	-19.2	66.9	0.0	128.3	0.0	0.0	0.0	128.3	686.0	814.3
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,535.9***	***2.0***	***0.2***	***23,537.7***	***1.8***	***-18.2***	***97.9***	***0.0***	***185.3***	***0.0***	***0.0***	***0.0***	***185.3***	***23,537.7***	***23,723.0***
... Nuclear	***Utility Scale Facilities***	***99,641.5***	***0.0***	***0.0***	***99,641.5***	***0.0***	***6.9***	***25.9***	***0.0***	***18.0***	***0.0***	***607.7***	***0.0***	***-589.7***	***99,641.5***	***99,051.8***
... All Other	***Utility Scale Facilities***	***1,423.2***	***268.0***	***0.0***	***1,691.2***	***268.0***	***272.3***	***272.3***	***6.0***	***54.8***	***0.0***	***0.0***	***6.0***	***54.8***	***1,697.2***	***1,746.0***
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,798.2**	**2,246.8**	**1,536.0**	**1,081,509.0**	**710.8**	**-3,274.4**	**5,324.6**	**6,224.4**	**32,638.8**	**1,570.3**	**12,073.7**	**4,654.1**	**20,565.1**	**1,086,163.1**	**1,102,074.1**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*16,893.0*			*16,971.7*	*78.6*	*747.5*	*3,249.2*								
..... Estimated Total Solar Photovoltaic	All Facilities	42,702.8			43,361.9	659.0	2,230.9	8,626.1								
... Estimated Total Solar	***All Facilities***	***44,460.7***			***45,119.8***	***659.0***	***2,230.9***	***8,626.1***								

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 - March 2018

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	20,192.9	12,765.1	32,958.0
2017	24,906.8	16,224.2	41,131.0
Year 2016			
January	12,470.5	9,865.6	22,336.1
February	12,615.2	10,123.1	22,738.3
March	12,822.0	10,440.2	23,262.2
April	13,298.0	10,687.8	23,985.8
May	13,419.8	10,927.9	24,347.7
June	13,635.3	11,185.2	24,820.5
July	14,360.4	11,385.3	25,745.7
August	15,297.1	11,670.6	26,967.7
Sept	16,064.3	11,913.3	27,977.6
October	16,477.2	12,156.4	28,633.6
November	17,192.0	12,446.4	29,638.4
December	20,192.9	12,765.1	32,958.0
Year 2017			
January	20,487.3	13,028.2	33,515.5
February	20,674.8	13,332.8	34,007.6
March	21,013.3	13,722.5	34,735.8
April	21,530.7	13,971.4	35,502.1
May	21,927.8	14,259.4	36,187.2
June	22,151.3	14,543.5	36,694.8
July	22,264.5	14,810.2	37,074.7
August	22,443.8	15,104.9	37,548.7
Sept	22,653.0	15,340.6	37,993.6
October	23,001.1	15,582.9	38,584.0
November	23,538.3	15,868.6	39,406.9
December	24,906.8	16,224.2	41,131.0
Year 2018			
January	25,689.0	16,655.5	42,344.5
February	25,809.8	16,893.0	42,702.8
March	26,390.2	16,971.7	43,361.9

Values are preliminary.
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-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 - March 2018

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,527.0	4,022.8	1,215.3	12,765.1
2017	9,574.0	5,146.5	1,503.7	16,224.2
Year 2016				
January	5,428.5	3,419.8	1,017.3	9,865.6
February	5,627.1	3,458.3	1,037.7	10,123.1
March	5,852.7	3,521.8	1,065.8	10,440.2
April	6,051.1	3,552.6	1,084.1	10,687.8
May	6,238.7	3,589.1	1,100.0	10,927.9
June	6,432.3	3,640.4	1,112.5	11,185.2
July	6,592.9	3,660.7	1,131.7	11,385.3
August	6,785.8	3,734.2	1,150.5	11,670.6
Sept	6,957.7	3,794.2	1,161.5	11,913.3
October	7,147.1	3,837.6	1,171.8	12,156.4
November	7,332.8	3,930.7	1,182.9	12,446.4
December	7,527.0	4,022.8	1,215.3	12,765.1
Year 2017				
January	7,708.1	4,105.9	1,214.2	13,028.2
February	7,895.4	4,151.7	1,285.7	13,332.8
March	8,124.1	4,286.3	1,312.1	13,722.5
April	8,275.0	4,372.5	1,324.0	13,971.4
May	8,456.1	4,456.1	1,347.2	14,259.4
June	8,618.5	4,555.2	1,369.8	14,543.5
July	8,776.9	4,637.7	1,395.5	14,810.2
August	8,956.2	4,734.4	1,414.3	15,104.9
Sept	9,105.0	4,797.4	1,438.2	15,340.6
October	9,254.3	4,884.2	1,444.4	15,582.9
November	9,416.4	4,978.0	1,474.3	15,868.6
December	9,574.0	5,146.5	1,503.7	16,224.2
Year 2018				
January	9,787.4	5,349.7	1,518.4	16,655.5
February	9,996.0	5,378.3	1,518.8	16,893.0
March	10,169.7	5,289.9	1,512.1	16,971.7

Values are preliminary.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.
In March 2018, the net decrease in sector capacity is due to the correction of incorrectly reported virtual net metering and net metering capacity

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, March 2018 and 2017 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	5,695.9	5,532.8	21,204.8	22,733.7	1,797.4	1,797.4	24.7	19.0	4,014.1	4,014.1	320.9	52.9	33,057.8	34,149.9
Connecticut	383.5	353.5	6,113.4	6,308.7	29.4	29.4	1.6	0.8	2,087.8	2,087.8	298.9	30.9	8,914.6	8,811.1
Maine	2,346.5	2,418.2	2,538.5	2,442.5	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,923.2	4,898.9
Massachusetts	1,293.8	1,141.0	8,378.3	9,803.0	1,768.0	1,768.0	4.9	0.0	677.2	677.2	0.0	0.0	12,122.2	13,389.2
New Hampshire	928.9	928.9	2,262.9	2,266.0	0.0	0.0	0.0	0.0	1,249.1	1,249.1	0.0	0.0	4,440.9	4,444.0
Rhode Island	113.3	101.6	1,813.8	1,815.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,927.1	1,917.2
Vermont	629.9	589.6	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	729.8	689.5
Middle Atlantic	11,011.3	10,926.6	68,861.7	69,447.6	3,409.1	3,409.1	72.4	71.4	19,307.3	19,294.5	15.7	11.2	102,677.5	103,160.4
New Jersey	900.6	864.3	12,382.8	13,530.8	420.0	420.0	1.0	1.0	4,107.9	4,107.9	15.7	11.2	17,828.0	18,935.2
New York	7,235.1	7,179.8	26,207.4	26,166.2	1,406.1	1,406.1	21.0	20.0	5,402.4	5,389.6	0.0	0.0	40,272.0	40,161.7
Pennsylvania	2,875.6	2,882.5	30,271.5	29,750.6	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	0.0	0.0	44,577.5	44,063.5
East North Central	11,690.1	10,760.7	114,401.9	113,167.5	2,134.0	2,103.0	167.4	187.4	19,023.8	19,033.7	110.1	110.1	147,527.3	145,362.4
Illinois	4,447.9	4,172.4	29,059.1	28,987.8	0.0	0.0	112.4	112.4	11,577.4	11,587.3	0.0	0.0	45,196.8	44,859.9
Indiana	2,446.8	2,206.2	23,124.2	23,103.0	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,682.0	25,420.2
Michigan	2,636.1	2,419.8	20,790.5	20,616.7	2,134.0	2,103.0	0.0	0.0	4,119.8	4,119.8	0.0	0.0	29,680.4	29,259.3
Ohio	930.3	843.2	26,905.3	25,939.5	0.0	0.0	33.0	53.0	2,134.0	2,134.0	0.0	0.0	30,002.6	28,969.7
Wisconsin	1,229.0	1,119.1	14,522.8	14,520.5	0.0	0.0	0.0	0.0	1,192.6	1,192.6	21.1	21.1	16,965.5	16,853.3
West North Central	26,766.9	25,272.6	60,694.2	60,446.7	657.0	657.0	3.2	2.0	5,444.9	5,444.9	24.5	24.5	93,590.7	91,847.7
Iowa	7,315.8	6,967.8	9,918.4	9,531.7	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,835.6	17,100.9
Kansas	5,137.0	4,956.8	9,775.8	9,795.4	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,138.6	15,978.0
Minnesota	5,000.3	4,443.7	10,086.0	10,089.3	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	16,762.7	16,209.4
Missouri	1,563.4	1,245.2	18,391.5	18,578.4	657.0	657.0	2.2	1.0	1,190.0	1,190.0	0.0	0.0	21,804.1	21,671.6
Nebraska	1,720.8	1,629.5	6,197.1	6,215.5	0.0	0.0	0.0	0.0	771.5	771.5	0.0	0.0	8,689.4	8,616.5
North Dakota	3,592.8	3,592.8	4,633.6	4,544.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,231.7	8,142.7
South Dakota	2,436.8	2,436.8	1,691.8	1,691.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,128.6	4,128.6
South Atlantic	19,050.0	16,890.0	158,235.2	159,113.5	7,905.2	7,905.2	80.5	78.5	24,602.6	24,598.6	446.7	446.7	210,320.2	209,032.5
Delaware	46.1	44.9	3,331.4	3,364.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,377.5	3,409.3
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	2,459.5	1,690.2	51,936.6	53,325.3	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	58,316.8	58,936.2
Georgia	3,965.0	3,908.7	26,973.7	26,938.4	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,906.9	36,815.3
Maryland	1,147.1	1,085.9	10,278.7	10,287.3	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,146.6	13,092.0
North Carolina	6,099.4	5,338.8	21,644.3	21,604.9	86.0	86.0	1.0	1.0	5,117.6	5,113.6	54.0	54.0	33,002.3	32,198.3
South Carolina	2,157.4	1,911.7	11,435.2	11,472.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	22,884.8	22,676.2
Virginia	2,127.7	1,862.0	18,863.0	17,948.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,799.7	26,619.6
West Virginia	1,035.8	1,035.8	13,763.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	14,864.6	15,264.6
East South Central	8,741.1	8,410.3	65,052.6	65,844.5	1,616.3	1,616.3	0.0	0.0	10,984.1	10,984.1	1.4	1.4	86,395.5	86,856.6
Alabama	4,128.3	4,067.7	20,309.2	20,260.8	0.0	0.0	0.0	0.0	5,060.4	5,060.4	0.0	0.0	29,497.9	29,388.9
Kentucky	1,244.3	1,150.6	18,874.3	19,004.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,118.6	20,154.9
Mississippi	435.3	277.8	13,989.9	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,827.6	15,958.2
Tennessee	2,933.2	2,914.2	11,879.2	12,301.4	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	20,951.4	21,354.6
West South Central	35,923.4	32,271.5	139,764.6	141,651.7	286.0	286.0	93.3	41.0	8,910.7	8,910.7	512.7	512.9	185,490.7	183,673.8
Arkansas	1,688.3	1,610.1	11,183.0	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,717.1	14,701.1
Louisiana	683.2	682.1	20,600.7	20,953.2	0.0	0.0	0.5	0.0	2,132.9	2,132.9	288.7	288.9	23,706.0	24,057.1
Oklahoma	8,463.1	7,589.4	18,653.9	18,176.7	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	27,375.0	26,024.1
Texas	25,088.8	22,389.9	89,327.0	91,276.6	0.0	0.0	92.8	41.0	4,960.0	4,960.0	224.0	224.0	119,692.6	118,891.5
Mountain	26,117.1	25,305.0	62,291.3	63,386.7	778.8	778.8	23.6	22.6	3,937.0	3,937.0	126.3	126.3	93,274.1	93,556.4
Arizona	5,015.8	4,963.5	19,407.3	19,407.3	216.3	216.3	20.0	20.0	3,937.0	3,937.0	0.0	0.0	28,596.4	28,544.1
Colorado	4,277.5	4,160.9	11,119.2	11,345.2	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,969.5	16,077.9
Idaho	4,011.9	3,993.3	1,127.6	1,137.7	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,154.3	5,145.8
Montana	3,471.3	3,429.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,255.7	6,213.7
Nevada	3,570.0	3,343.4	7,791.6	7,791.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,368.1	11,141.5
New Mexico	2,388.7	2,031.1	5,966.8	6,828.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,358.1	8,862.0
Utah	1,587.5	1,589.1	7,360.2	7,348.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,987.9	8,977.5
Wyoming	1,794.4	1,794.4	6,778.2	6,788.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,584.1	8,593.9
Pacific Contiguous	67,087.6	65,762.9	48,702.9	49,466.1	4,225.9	4,225.9	175.2	165.7	3,417.0	3,398.0	106.3	106.3	123,714.9	123,124.9
California	30,172.5	28,928.0	39,625.0	40,400.3	3,911.9	3,911.9	162.8	155.5	2,240.0	2,240.0	106.3	106.3	76,218.5	75,742.0
Oregon	12,204.3	12,061.2	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,527.4	16,384.3
Washington	24,710.8	24,773.7	4,759.8	4,747.7	314.0	314.0	7.4	5.2	1,177.0	1,158.0	0.0	0.0	30,969.0	30,998.6
Pacific Noncontiguous	1,128.1	1,103.1	4,217.9	4,216.6	0.0	0.0	87.7	73.5	0.0	0.0	26.6	26.6	5,460.3	5,419.8
Alaska	538.0	538.0	2,159.6	2,159.4	0.0	0.0	46.2	45.0	0.0	0.0	0.0	0.0	2,743.8	2,742.4
Hawaii	590.1	565.1	2,058.3	2,057.2	0.0	0.0	41.5	28.5	0.0	0.0	26.6	26.6	2,716.5	2,677.4
U.S. Total	213,211.5	202,235.5	743,427.1	749,474.6	22,809.7	22,778.7	728.0	661.1	99,641.5	99,615.6	1,691.2	1,418.9	1,081,509.0	1,076,184.4

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, March 2018 and 2017 (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	
	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	1,402.2	1,349.5	801.9	604.4	0.0	0.0	1,960.7	1,957.4	1,531.1	1,621.5	0.0	0.0	5,695.9	5,532.8	1,826.1	1,491.1	2,628.0	2,095.5	2,628.0	2,095.5
Connecticut	1.1	1.1	56.7	26.7	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	383.5	353.5	348.3	279.5	405.0	306.2	405.0	306.2
Maine	921.6	898.8	5.6	4.1	0.0	0.0	732.4	732.4	686.9	782.9	0.0	0.0	2,346.5	2,418.2	35.3	25.2	40.9	29.3	40.9	29.3
Massachusetts	94.4	94.5	646.7	497.7	0.0	0.0	267.4	265.9	285.3	282.9	0.0	0.0	1,293.8	1,141.0	1,220.7	1,021.2	1,867.4	1,518.9	1,867.4	1,518.9
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	241.0	0.0	0.0	928.9	928.9	73.2	58.4	73.2	58.4	73.2	58.4
Rhode Island	51.8	51.8	18.7	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	113.3	101.6	55.7	31.4	74.4	41.6	74.4	41.6
Vermont	150.2	120.2	74.2	65.7	0.0	0.0	331.2	329.4	74.3	74.3	0.0	0.0	629.9	589.6	92.9	75.5	167.1	141.2	167.1	141.2
Middle Atlantic	3,205.6	3,204.1	863.6	780.1	0.0	0.0	5,637.3	5,630.7	1,304.8	1,311.7	0.0	0.0	11,011.3	10,926.6	2,633.5	2,148.6	3,497.1	2,928.7	3,497.1	2,928.7
New Jersey	7.6	7.6	653.4	617.1	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	900.6	864.3	1,322.2	1,108.1	1,975.6	1,725.2	1,975.6	1,725.2
New York	1,826.2	1,824.7	159.4	112.2	0.0	0.0	4,725.4	4,718.8	524.1	524.1	0.0	0.0	7,235.1	7,179.8	1,045.2	802.3	1,204.6	914.5	1,204.6	914.5
Pennsylvania	1,371.8	1,371.8	50.8	50.8	0.0	0.0	899.6	899.6	553.4	560.3	0.0	0.0	2,875.6	2,882.5	266.1	238.1	316.9	288.9	316.9	288.9
East North Central	9,142.2	8,322.7	401.8	293.5	0.0	0.0	857.3	853.1	1,288.8	1,291.4	0.0	0.0	11,690.1	10,760.7	318.8	230.3	720.6	523.8	720.6	523.8
Illinois	4,261.8	3,983.8	34.8	32.8	0.0	0.0	34.1	34.1	117.2	121.7	0.0	0.0	4,447.9	4,172.4	53.7	30.3	88.5	63.1	88.5	63.1
Indiana	2,109.4	1,889.7	196.7	172.6	0.0	0.0	60.4	60.4	80.3	83.5	0.0	0.0	2,446.8	2,206.2	57.8	17.8	254.5	190.4	254.5	190.4
Michigan	1,735.8	1,583.8	74.3	12.5	0.0	0.0	266.9	263.0	559.1	560.5	0.0	0.0	2,636.1	2,419.8	55.2	56.9	129.5	69.4	129.5	69.4
Ohio	605.9	533.9	75.1	67.5	0.0	0.0	101.9	101.9	147.4	139.9	0.0	0.0	930.3	843.2	105.2	91.1	180.3	158.6	180.3	158.6
Wisconsin	429.3	331.5	20.9	8.1	0.0	0.0	394.0	393.7	384.8	385.8	0.0	0.0	1,229.0	1,119.1	46.9	34.2	67.8	42.3	67.8	42.3
West North Central	22,246.5	21,139.7	669.3	290.4	0.0	0.0	3,293.7	3,289.4	557.4	553.1	0.0	0.0	26,766.9	25,272.6	277.2	222.9	946.5	513.3	946.5	513.3
Iowa	7,140.3	6,798.9	7.7	2.6	0.0	0.0	146.4	144.9	21.4	21.4	0.0	0.0	7,315.8	6,967.8	74.8	52.6	82.5	55.2	82.5	55.2
Kansas	5,117.8	4,939.6	3.2	1.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,137.0	4,956.8	12.3	8.9	15.5	10.1	15.5	10.1
Minnesota	3,705.9	3,506.5	603.5	250.6	0.0	0.0	205.9	205.9	485.0	480.7	0.0	0.0	5,000.3	4,443.7	50.5	35.1	654.0	285.7	654.0	285.7
Missouri	954.3	654.3	44.1	28.7	0.0	0.0	548.5	545.7	16.5	16.5	0.0	0.0	1,563.4	1,245.2	133.9	122.5	178.0	151.2	178.0	151.2
Nebraska	1,417.4	1,329.6	9.8	6.3	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,720.8	1,629.5	4.9	3.0	14.7	9.3	14.7	9.3
North Dakota	3,073.0	3,073.0	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	3,592.8	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,436.8	0.6	0.5	1.6	1.5	1.6	1.5
South Atlantic	1,086.3	1,086.3	6,322.1	4,195.8	0.0	0.0	7,276.9	7,270.8	4,364.7	4,337.1	0.0	0.0	19,050.0	16,890.0	1,432.7	1,119.4	7,754.8	5,315.2	7,754.8	5,315.2
Delaware	2.0	2.0	31.9	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.1	44.9	69.6	58.7	101.5	89.4	101.5	89.4
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	40.8	29.8	40.8	29.8	40.8	29.8
Florida	0.0	0.0	1,108.2	345.5	0.0	0.0	54.5	54.5	1,296.8	1,290.2	0.0	0.0	2,459.5	1,690.2	215.1	148.2	1,323.3	493.7	1,323.3	493.7
Georgia	0.0	0.0	1,010.9	968.1	0.0	0.0	2,047.2	2,047.2	906.9	893.4	0.0	0.0	3,965.0	3,908.7	NM	123.3	NM	1,091.4	NM	1,091.4
Maryland	190.0	190.0	225.1	163.9	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,147.1	1,085.9	641.6	525.7	866.7	689.6	866.7	689.6
North Carolina	208.0	208.0	3,317.8	2,564.7	0.0	0.0	2,002.0	2,002.0	571.6	564.1	0.0	0.0	6,099.4	5,338.8	116.5	119.0	3,434.3	2,683.7	3,434.3	2,683.7
South Carolina	0.0	0.0	258.9	19.3	0.0	0.0	1,367.7	1,361.6	530.8	530.8	0.0	0.0	2,157.4	1,911.7	138.8	73.3	397.7	92.6	397.7	92.6
Virginia	0.0	0.0	369.3	103.6	0.0	0.0	866.0	866.0	892.4	892.4	0.0	0.0	2,127.7	1,862.0	50.0	36.4	419.3	140.0	419.3	140.0
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	349.5	349.5	0.0	0.0	0.0	0.0	1,035.8	1,035.8	6.0	4.8	6.0	4.8	6.0	4.8
East South Central	29.1	29.1	447.3	158.4	0.0	0.0	7,035.7	6,957.2	1,229.0	1,265.6	0.0	0.0	8,741.1	8,410.3	88.7	79.0	536.0	237.4	536.0	237.4
Alabama	0.0	0.0	172.2	75.0	0.0	0.0	3,270.2	3,270.2	685.9	722.5	0.0	0.0	4,128.3	4,067.7	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	25.2	10.0	0.0	0.0	1,146.9	1,068.4	72.2	72.2	0.0	0.0	1,244.3	1,150.6	17.6	15.1	42.8	25.1	42.8	25.1
Mississippi	0.0	0.0	160.6	3.1	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	435.3	277.8	10.6	5.8	171.2	8.9	171.2	8.9
Tennessee	29.1	29.1	89.3	70.3	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,933.2	2,914.2	55.1	53.4	144.4	123.7	144.4	123.7
West South Central	30,264.4	27,247.6	1,349.9	710.4	0.0	0.0	2,987.5	2,988.3	1,321.6	1,325.2	0.0	0.0	35,923.4	32,271.5	652.5	511.4	2,002.4	1,221.8	2,002.4	1,221.8
Arkansas	0.0	0.0	94.0	13.0	0.0	0.0	1,263.9	1,266.7	330.4	330.4	0.0	0.0	1,688.3	1,610.1	10.5	5.8	104.5	18.8	104.5	18.8
Louisiana	0.0	0.0	1.1	0.0	0.0	0.0	192.0	192.0	490.1	490.1	0.0	0.0	683.2	682.1	133.6	121.1	134.7	121.1	134.7	121.1
Oklahoma	7,494.8	6,644.1	30.5	9.5	0.0	0.0	861.6	859.6	76.2	76.2	0.0	0.0	8,463.1	7,589.4	5.7	3.1	36.2	12.6	36.2	12.6
Texas	22,769.6	20,603.5	1,224.3	687.9	0.0	0.0	670.0	670.0	424.9	428.5	0.0	0.0	25,088.8	22,389.9	502.7	381.2	1,727.0	1,069.1	1,727.0	1,069.1
Mountain	8,832.4	8,404.5	5,494.8	5,144.4	473.9	473.9	10,561.4	10,562.8	174.3	176.1	580.3	543.3	26,117.1	25,305.0	1,974.8	1,633.1	7,469.6	6,777.5	7,943.5	7,251.4
Arizona	267.3	267.3	1,701.5	1,649.2	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,015.8	4,963.5	1,038.6	869.1	2,740.1	2,518.3	3,035.5	2,813.7
Colorado	3,101.1	3,026.1	460.3	418.7	0.0	0.0	687.4	687.4	28.7	28.7	0.0	0.0	4,277.5	4,160.9	336.0	296.9	796.3	715.6	796.3	715.6
Idaho	970.5	970.5	240.0	220.0	0.0	0.0	2,707.5	2,708.9	83.9	83.9	10.0	10.0	4,011.9	3,993.3	15.8	8.0	255.8	228.0	255.8	228.0
Montana	703.5	678.5	17.0	0.0	0.0	0.0	2,747.8	2,747.8	3.0	3.0	0.0	0.0	3,471.3	3,429.3	11.4	8.9	28.4	8.9	28.4	8.9
Nevada	150.0	150.0	1,684.6	1,495.0	178.5	178.5	1,051.4	1,051.4	9.8	9.8	495.7	458.7	3,570.0	3,343.4	237.8	211.5	1,922.4	1,706.5	2,100.9	1,885.0
New Mexico	1,764.5	1,436.6	534.3	504.4	0.0	0.0	82.9	82.9	5.4	5.6	1.6	1.6	2,388.7	2,031.1	125.1	93.6	659.4	598.0	659.4	598.0
Utah	388.2	388.2	857.1	857.1	0.0	0.0	256.4	256.4	12.8	14.4	73.0	73.0	1,587.5	1,589.1	206.6	142.4	1,063.7	999.5	1,063.7	999.5
Wyoming	1,487.3	1,487.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,794.4	3.5	2.5	3.5	2.5	3.5	2.5
Pacific Contiguous	12,134.5	11,941.7	9,941.2	8,752.6	1,284.0	1,284.0	39,847.7	39,909.3	2,017.9	2,006.0	1,862.3	1,869.3	67,087.6	65,762.9	7,179.7	5,746.3	17,120.9	14,498.9	18,404.9	15,782.9
California	5,851.2	5,658.4	9,704.0	8,652.2	1,284.0	1,284.0	10,198.0	10,190.4	1,292.5	1,293.2	1,842.8	1,849.8	30,172.5	28,928.0	6,934.2	5,541.3	16,638.2	14,193.5	17,922.2	15,477.5
Oregon	3,210.2	3,210.2	236.7	99.9	0.0	0.0	8,423.2	8,423.2	314.7	308.4	19.5	19.5	12,204.3	12,061.2	141.0	123.4	377.7	223.3	377.7	223.3
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,226.5	21,295.7	410.7	404.4	0.0	0.0	24,710.8	24,773.7	104.5	81.5	105.0	82.0	105.0	82.0
Pacific Noncontiguous	266.2	266.2	98.3	83.3	0.0	0.0	496.3	496.3	224.3	214.3	43.0	43.0	1,128.1	1,103.1	587.8	540.6	686.1	623.9	686.1	623.9
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.4	470.4	7.0	7.0	0.0	0.0	538.0	538.0	2.2	1.6	2.2	1.6	2.2	1.6
Hawaii	205.6	205.6	98.3	83.3	0.0	0.0	25.9	25.9	217.3	207.3	43.0	43.0	590.1	565.1	585.6	539.0	683.9	622.3	683.9	622.3
U.S. Total	88,609.4	82,991.4	26,390.2	21,013.3	1,757.9	1,757.9	79,954.5	79,915.3	14,013.9	14,102.0	2,485.6	2,455.6	213,211.5	202,235.5	16,971.7	13,722.5	43,361.9	34,735.8	45,119.8	36,493.7

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, March 2018 and 2017 (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	
	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017	March 2018	March 2017
New England	11,872.8	12,048.8	1,112.0	1,088.9	1,147.0	1,049.7	917.3	1,955.3	0.0	0.0	6,155.7	6,591.0	0.0	0.0	21,204.8	22,733.7
Connecticut	2,345.2	2,550.4	477.6	467.3	424.2	424.6	383.4	383.4	0.0	0.0	2,483.0	2,483.0	0.0	0.0	6,113.4	6,308.7
Maine	1,250.0	1,250.0	297.1	297.1	110.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,538.5	2,442.5
Massachusetts	5,259.4	5,230.2	333.5	320.7	199.7	198.0	0.0	1,038.0	0.0	0.0	2,585.7	3,016.1	0.0	0.0	8,378.3	9,803.0
New Hampshire	1,231.0	1,231.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	97.1	0.0	0.0	2,262.9	2,266.0
Rhode Island	1,787.2	1,787.2	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	14.2	16.0	0.0	0.0	1,813.8	1,815.6
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	97.9	0.0	0.0	97.9	97.9
Middle Atlantic	26,923.0	26,312.9	7,686.8	7,712.9	15,123.4	14,220.4	13,534.2	15,617.2	78.6	78.6	5,386.5	5,380.4	129.2	125.2	68,861.7	69,447.6
New Jersey	8,158.0	8,118.9	2,855.6	2,857.3	493.2	1,052.4	613.0	1,245.0	11.6	11.6	228.0	222.2	23.4	23.4	12,382.8	13,530.8
New York	8,178.4	8,125.3	3,151.7	3,176.1	9,687.3	9,677.3	1,640.2	1,640.2	0.0	0.0	3,549.8	3,547.3	0.0	0.0	26,207.4	26,166.2
Pennsylvania	10,586.6	10,068.7	1,679.5	1,679.5	4,942.9	3,490.7	11,281.0	12,732.0	67.0	67.0	1,608.7	1,610.9	105.8	101.8	30,271.5	29,750.6
East North Central	18,859.5	17,138.0	26,540.5	26,447.8	4,184.4	3,906.3	60,762.7	61,604.1	247.6	247.6	2,641.3	2,657.8	1,165.9	1,165.9	114,401.9	113,167.5
Illinois	3,580.2	3,576.8	10,385.3	10,313.3	288.9	290.9	14,016.0	14,015.1	0.0	0.0	674.2	677.2	114.5	114.5	29,059.1	28,987.8
Indiana	2,406.0	2,406.0	3,363.2	3,345.2	729.1	725.9	15,773.8	15,773.8	0.0	0.0	237.8	237.8	614.3	614.3	23,124.2	23,103.0
Michigan	4,421.0	4,294.5	3,977.6	3,977.7	2,387.6	2,134.7	9,218.7	9,414.2	47.2	47.2	488.4	498.4	250.0	250.0	20,790.5	20,616.7
Ohio	5,704.0	4,117.8	5,442.1	5,431.7	188.2	157.3	14,605.4	15,263.6	142.0	142.0	636.5	640.0	187.1	187.1	26,905.3	25,939.5
Wisconsin	2,748.3	2,742.9	3,372.3	3,379.9	590.6	597.5	7,148.8	7,137.4	58.4	58.4	604.4	604.4	0.0	0.0	14,522.8	14,520.5
West North Central	6,635.2	5,988.3	11,524.3	11,378.7	4,635.0	4,369.3	34,009.5	34,625.1	32.0	32.0	3,849.8	4,044.9	8.4	8.4	60,694.2	60,446.7
Iowa	1,774.7	1,121.1	1,266.6	1,192.9	655.6	675.2	5,391.4	5,548.8	32.0	32.0	798.1	961.7	0.0	0.0	9,918.4	9,531.7
Kansas	266.0	266.0	2,148.3	2,154.0	2,096.7	2,113.2	4,714.2	4,714.2	0.0	0.0	550.6	548.0	0.0	0.0	9,775.8	9,795.4
Minnesota	2,172.0	2,172.0	2,456.4	2,437.9	361.1	375.1	4,309.4	4,309.4	0.0	0.0	787.1	794.9	0.0	0.0	10,086.0	10,089.3
Missouri	1,789.9	1,796.6	3,399.6	3,420.5	836.1	501.0	11,260.8	11,726.1	0.0	0.0	1,105.1	1,134.2	0.0	0.0	18,391.5	18,578.4
Nebraska	342.6	342.6	1,150.8	1,150.8	565.2	584.5	3,817.3	3,817.3	0.0	0.0	321.2	320.3	0.0	0.0	6,197.1	6,215.5
North Dakota	0.0	0.0	408.0	328.0	111.6	111.6	4,042.4	4,035.3	0.0	0.0	63.2	61.3	8.4	8.4	4,633.6	4,544.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	224.5	224.5	0.0	0.0	1,691.8	1,691.8
South Atlantic	52,553.3	51,880.5	32,552.8	32,359.1	7,317.0	7,272.8	55,186.3	56,870.7	83.8	83.8	10,407.0	10,511.6	135.0	135.0	158,235.2	159,113.5
Delaware	1,512.0	1,512.0	317.2	315.2	843.1	878.1	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,331.4	3,364.4
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	27,351.7	27,444.7	8,506.3	8,556.3	2,479.6	2,469.3	8,629.0	9,881.0	0.0	0.0	4,970.0	4,974.0	0.0	0.0	51,936.6	53,325.3
Georgia	7,963.9	7,963.9	7,787.2	7,787.2	842.9	796.4	9,350.5	9,360.5	83.8	83.8	945.4	946.6	0.0	0.0	26,973.7	26,938.4
Maryland	976.0	976.0	1,957.6	1,966.2	1,414.2	1,414.2	4,712.0	4,712.0	0.0	0.0	1,218.9	1,218.9	0.0	0.0	10,278.7	10,287.3
North Carolina	4,724.8	4,724.8	6,045.1	5,957.7	0.0	0.0	10,536.8	10,536.8	0.0	0.0	337.6	385.6	0.0	0.0	21,644.3	21,604.9
South Carolina	2,399.0	2,399.0	2,814.8	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	513.4	0.0	0.0	11,435.2	11,472.3
Virginia	7,625.9	6,860.1	4,044.3	3,894.3	1,068.2	1,045.8	3,778.0	3,800.4	0.0	0.0	2,346.6	2,348.0	0.0	0.0	18,863.0	17,948.6
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	123.0	12,558.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	13,763.3	14,163.3
East South Central	20,485.6	19,097.9	12,646.9	13,002.4	5,221.8	5,371.9	26,536.5	28,210.5	0.0	0.0	142.0	142.0	19.8	19.8	65,052.6	65,844.5
Alabama	9,471.9	9,441.4	2,532.2	2,532.2	1,959.3	1,941.4	6,283.4	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,309.2	20,260.8
Kentucky	1,763.0	663.0	4,976.6	4,976.6	260.0	260.0	11,862.8	13,092.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	19,004.3
Mississippi	7,847.7	7,590.5	1,357.6	1,718.9	2,936.3	3,104.3	1,804.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	13,989.9	14,278.0
Tennessee	1,403.0	1,403.0	3,780.5	3,774.7	66.2	66.2	6,586.3	7,014.3	0.0	0.0	43.2	43.2	0.0	0.0	11,879.2	12,301.4
West South Central	60,656.5	58,025.8	13,976.4	13,423.6	31,242.5	31,986.3	32,101.2	36,423.7	957.9	955.7	174.8	181.3	655.3	655.3	139,764.6	141,651.7
Arkansas	4,566.0	4,620.5	702.8	702.8	802.0	793.7	5,100.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,183.0	11,245.2
Louisiana	7,537.0	7,552.8	2,357.9	2,372.8	6,528.4	6,829.9	2,832.6	2,852.9	894.1	891.9	43.3	45.5	407.4	407.4	20,600.7	20,953.2
Oklahoma	7,296.5	6,783.7	1,684.9	1,287.9	4,745.5	5,164.9	4,852.6	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,653.9	18,176.7
Texas	41,257.0	39,068.8	9,230.8	9,060.1	19,166.6	19,197.8	19,316.0	23,589.0	63.8	63.8	44.9	49.2	247.9	247.9	89,327.0	91,276.6
Mountain	22,483.8	22,483.8	8,638.9	8,659.0	3,663.9	3,341.9	26,989.0	28,367.6	52.0	52.0	356.3	370.8	107.4	111.6	62,291.3	63,386.7
Arizona	9,891.6	9,891.6	2,367.6	2,367.6	1,303.6	1,303.6	5,754.0	5,754.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,407.3
Colorado	3,240.5	3,240.5	2,572.3	2,572.3	639.0	329.0	4,499.0	5,035.0	0.0	0.0	168.4	168.4	0.0	0.0	11,119.2	11,345.2
Idaho	547.7	547.7	552.0	562.1	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.6	1,137.7
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,415.0	5,415.0	1,185.6	1,185.6	444.6	444.6	740.4	740.4	0.0	0.0	6.0	6.0	0.0	0.0	7,791.6	7,791.6
New Mexico	1,465.0	1,465.0	966.0	976.0	849.4	849.4	2,634.0	3,471.0	0.0	0.0	52.4	66.9	0.0	0.0	5,966.8	6,828.3
Utah	1,830.0	1,830.0	520.2	520.2	328.2	316.2	4,654.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,360.2	7,348.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,406.0	6,411.6	0.0	0.0	5.8	5.8	105.9	110.1	6,778.2	6,788.0
Pacific Contiguous	26,030.1	25,979.2	11,550.4	11,790.3	8,431.1	8,983.0	1,982.0	1,982.0	17.0	17.0	470.9	485.3	221.4	229.3	48,702.9	49,466.1
California	20,001.6	19,962.8	10,697.2	10,937.1	8,175.1	8,727.0	57.0	57.0	17.0	17.0	455.7	470.1	221.4	229.3	39,625.0	40,400.3
Oregon	3,374.9	3,374.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	4,318.1
Washington	2,653.6	2,641.5	719.4	719.4	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,759.8	4,747.7
Pacific Noncontiguous	479.2	479.2	626.3	626.3	175.0	175.0	332.8	333.8	0.0	0.0	2,598.2	2,595.9	6.4	6.4	4,217.9	4,216.6
Alaska	479.2	479.2	626.3	626.3	175.0	175.0	152.8	153.8	0.0	0.0	726.3	725.1	0.0	0.0	2,159.6	2,159.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,871.9	1,870.8	6.4	6.4	2,058.3	2,057.2
U.S. Total	246,979.0	239,434.4	126,855.3	126,489.0	81,141.1	80,676.6	252,351.5	265,990.0	1,468.9	1,466.7	32,182.5	32,961.0	2,448.8	2,456.9	743,427.1	749,474.6

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, 2018

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	1	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV
2018	1	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC
2018	1	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT
2018	1	61060	Cypress Creek Renewables	IPP	LeSun CSG, LLC	MN	61544	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	61060	Cypress Creek Renewables	IPP	WrightSun CSG, LLC	MN	61547	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40802	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40803	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40804	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40805	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40806	1.0	Solar Photovoltaic	SUN	PV
2018	1	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC
2018	1	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV
2018	1	59218	East. Michigan Univ. Heating Plant	Commercial	East. Michigan Univ. Heating Plant	MI	59452	COGN2	6.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	7140	Georgia Power Co	Electric Utility	Comer Solar	GA	61554	1	2.0	Solar Photovoltaic	SUN	PV
2018	1	59462	Heelstone Energy Holdings, LLC	IPP	Chiloquin Solar, LLC	OR	61631	CHILO	9.9	Solar Photovoltaic	SUN	PV
2018	1	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT
2018	1	61227	Nautilus Solar Solutions	IPP	Kilroy Solar	CA	61628	KILRO	1.1	Solar Photovoltaic	SUN	PV
2018	1	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT
2018	1	49748	ORCAL Geothermal, Inc	IPP	Heber Geothermal	CA	54689	4	16.0	Geothermal	GEO	BT
2018	1	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT
2018	1	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV
2018	1	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	1	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	2	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	3	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	4	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	5	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	2	61105	ABEC #2 LLC	IPP	ABEC #2 dba West-Star Dairy	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61106	ABEC #3 LLC	IPP	ABEC #3 dba Lakeview Dairy	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61107	ABEC #4 LLC	IPP	ABEC #4 dba CE&S Dairy	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV2W	3.3	Batteries	MWH	BA
2018	2	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2018	2	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV
2018	2	56769	Consolidated Edison Development Inc.	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV
2018	2	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.4	Solar Photovoltaic	SUN	PV
2018	2	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV
2018	2	61171	Lake Waconia Solar IV LLC	IPP	Lake Waconia IV Community Solar Garden	MN	61573	40926	1.0	Solar Photovoltaic	SUN	PV
2018	2	61170	Lake Waconia Solar LLC	IPP	Lake Waconia Community Solar Garden	MN	61572	38610	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	61156	NMRD Data Center, LLC	IPP	Facebook 2 Solar Energy Center	NM	61557	FB2	10.0	Solar Photovoltaic	SUN	PV
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY
2018	2	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV
2018	2	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV
2018	2	61168	Veseli Solar I LLC	IPP	Veseli Community Solar Garden	MN	61570	40921	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV
2018	3	60571	AEP Onsite Partners	IPP	Sherburne Community Solar	MN	61672	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	3	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables Community Solar	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV
2018	3	61060	Cypress Creek Renewables	IPP	Gaston Solar I - SC	SC	61530	GEN1	10.2	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	3	61228	Dundas Solar Holdings LLC	IPP	Dundas Solar Holdings LLC CSG	MN	61626	DU	5.0	Solar Photovoltaic	SUN	PV
2018	3	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV
2018	3	60904	ETCAP NES CS MN 06 LLC	IPP	Armstrong Solar	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV
2018	3	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV
2018	3	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS
2018	3	61323	PowerFin ASL 1, LLC	IPP	PowerFin Kingsbery	TX	61700	PFPKB	2.6	Solar Photovoltaic	SUN	PV
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60520	SoCore Energy LLC	IPP	Carrizozo Solar	NM	61662	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV2	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV
2018	3	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Community Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV
2018	3	61397	Town of Otis	Commercial	Town of Otis Wind Energy Project	MA	61775	OT196	1.5	Onshore Wind Turbine	WND	WT
2018	3	61229	Waterville Solar Holdings LLC	IPP	Waterville Solar Holdings LLC	MN	61627	WA	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, 2018

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	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	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	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	1	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	2	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	3	795.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 4	TX	6648	4	600.0	Conventional Steam Coal	LIG	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 5	TX	52071	5	600.0	Conventional Steam Coal	LIG	ST
2018	1	58247	National Centers for Animal Health	Commercial	NCAH Central Utility Plant	IA	58265	S-7A	1.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	1	606.0	Conventional Steam Coal	SUB	ST
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	2	602.0	Conventional Steam Coal	SUB	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	03	130.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
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	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	1	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	2	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	3	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	4	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	5	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	6	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	12199	Montana-Dakota Utilities Co	Electric Utility	Portable Generator 1	ND	59196	IC1	2.0	Petroleum Liquids	DFO	IC
2018	3	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN2	6.0	Wood/Wood Waste Biomass	WDS	ST

NOTES:

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	4	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV1	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	4	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	4	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60571	AEP Onsite Partners	IPP	Quincy II Solar Garden	CO	61752	PV1	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	4	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.4
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.5
2018	4	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	4	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	4	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	4	61256	Betcher CSG LLC	IPP	Betcher Community Solar Garden	MN	61671	BETCH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	4	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	4	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	300.0
2018	4	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	4	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(TS) Construction complete, but not yet in commercial operation	3.0
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(TS) Construction complete, but not yet in commercial operation	1.3
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(TS) Construction complete, but not yet in commercial operation	1.7
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.0
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2018	4	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	187.0
2018	4	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
2018	4	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
2018	4	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
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTW1	200.0	Onshore Wind Turbine	WND	WT	(OT) Other	200.0
2018	4	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	158.4
2018	4	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	158.4
2018	4	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	240.7
2018	4	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	240.7
2018	4	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
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	4	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	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
2018	4	61417	Lavio Solar, LLC	IPP	Lavio Solar	CA	61792	5002	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	11161	Loma Linda University	Commercial	Loma Linda University Cogen	CA	10206	GEN5	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	4	61156	NMRD Data Center, LLC	IPP	Facebook 3 Solar Energy Center	NM	61558	FB3	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	233.7
2018	4	61169	New Germany Solar I LLC	IPP	New Germany Community Solar Garden	MN	61571	39062	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	238.0
2018	4	60685	Novel Energy Solutions	IPP	Novel CSG of MN Lake	MN	61140	0000D	1.8	Solar Photovoltaic	SUN	PV	(OT) Other	1.8
2018	4	60685	Novel Energy Solutions	IPP	Novel CSG of Vetter Farms	MN	61141	0000F	3.0	Solar Photovoltaic	SUN	PV	(OT) Other	3.0
2018	4	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	4	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	4	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	4	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	4	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	4	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
2018	4	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
2018	4	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
2018	4	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	4	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	4	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	4	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61285	RJC II CSG LLC	IPP	RJC II Community Solar Garden	MN	61670	RJCII	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN3	6.0	Wood/Wood Waste Biomass	WDS	ST	(TS) Construction complete, but not yet in commercial operation	7.5
2018	4	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
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	238.0
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	238.0
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	260.0
2018	4	61418	Stage Gulch Solar, LLC	IPP	Stage Gulch Solar	CA	61791	5001	0.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	4	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
2018	4	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	50.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	4	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	50.0
2018	4	61188	West Texas A&M University	Commercial	UL Advanced Wind Turbine Test Facility	TX	61589	UT-1	3.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.4
2018	4	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	4	61172	Zumbro Solar LLC	IPP	Zumbro Community Solar Garden	MN	61574	38674	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV01	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV1W	4.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	4.5
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	5	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	5	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
2018	5	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
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	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	5	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.0
2018	5	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.1
2018	5	60609	Clean Focus Renewables, Inc.	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2018	5	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
2018	5	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
2018	5	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
2018	5	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
2018	5	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
2018	5	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	5	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	5	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	5	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	5	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	5	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	5	61304	Foreman's Hill CSG LLC	IPP	Foreman's Hill Community Solar	MN	61690	FOREM	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	5	61124	Great Valley Solar Portfolio Holdings, LLC	IPP	Great Valley Solar Portfolio Holdings, LLC	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2018	5	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	2	1.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	5	61303	Grimm CSG LLC	IPP	Grimm Community Solar	MN	61689	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	5	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	5	61287	Johnson I CSG LLC	IPP	Johnson 1 Community Solar	MN	61686	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	5	61309	Johnson II CSG LLC	IPP	Johnson II Community Solar	MN	61695	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	5	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2018	5	61383	MN Solar Community, LLC	IPP	Sherburne North Project	MN	61762	SHERB	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	5	61211	Montgomery County Solar	Commercial	Montgomery County Solar	MD	61608	1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	New Road Solar, LLC	NJ	61599	NEWRD	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Old Bridge Solar Farm	NJ	61600	OLDBR	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Raritan Solar - 53 Highway	NJ	61601	RARIT	8.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.4
2018	5	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	5	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2018	5	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	5	61348	PCS Energy, LLC	Industrial	Aerolease	CA	61718	APLEX	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
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	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	5	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	BA1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2018	5	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	PCEC	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2018	5	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	160.0
2018	5	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
2018	5	61210	Stenner Creek Solar LLC	Commercial	Stenner Creek Solar	CA	61607	CPOLY	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2018	5	61376	SunSelect 1	Industrial	SunSelect1	CA	61754	1	6.0	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	6.0
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	5	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
2018	5	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
2018	5	61366	Woods Hill Solar, LLC	IPP	Woods Hill Solar	CT	61736	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	6	61012	AES Distributed Energy	IPP	Anheuser-Busch Baldwinsville	NY	61575	BAL01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Columbia University - Johnson Farms	NY	61576	JF01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Columbia University - Minisink	NY	61578	MIN01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	St. Lawerence University - Sutton	NY	61579	SUT01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Time Warner Cable Enterprises - Martino	NY	61577	MRT01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	60281	Altus Power America Management, LLC	IPP	Big George PV	MA	61429	12344	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	6	61369	Aspenall Energies Delaware	Electric Utility	Kimball Wind, LLC	NE	56106	KIM01	30.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	30.0
2018	6	1015	Austin Energy	Electric Utility	Kingsberry Energy Storage System	TX	61741	KBESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2018	6	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	6	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	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	61410	Broad Street Fuel Cell, LLC	IPP	Trinity College Fuel Cell	CT	61786	MB-22	1.4	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	1.4
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	61060	Cypress Creek Renewables	IPP	Antanavica Solar	MA	61526	GEN1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	6	61060	Cypress Creek Renewables	IPP	Mustang Solar	NC	61533	GEN1	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)
2018	6	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	6	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	6	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation California Training Facility	CA	61442	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Salinas Valley State Prison	CA	61444	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	6	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	230.0
2018	6	49893	Invenergy Services LLC	IPP	Bishop Hill III	IL	61787	BHIII	119.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	119.0
2018	6	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	24.9
2018	6	61346	Lisbon East	IPP	COU Solar I, LLC	NY	61720	LECOU	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	6	61345	Lisbon West	IPP	CJ Solar I, LLC	NY	61719	LWCJ1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	58822	MC Power Companies Inc	IPP	El Dorado Springs Solar Farm	MO	61566	EDSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	1	4.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.1
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	2	4.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2018	6	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.1
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	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-1	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	6	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-2	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	6	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-3	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	6	61298	Pine Gate Renewables	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	61298	Pine Gate Renewables	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2018	6	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	6	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	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	TN	3393	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	TN	3393	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	Estrella Mountain PV	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
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	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	180.0
2018	6	61277	Vista Energy Storage, LLC	IPP	Vista Energy Storage System	CA	61661	VISTA	40.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	40.0
2018	7	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC1	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC10	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC11	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC12	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC2	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC3	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC4	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC5	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC6	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC7	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC8	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC9	18.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2018	7	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	7	60953	Farmingdale Fuel Cell, LLC	Electric CHP	Farmingdale Fuel Cell	NY	61317	MB-21	1.4	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2018	7	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2018	7	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2018	7	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	7	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	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	17650	Southern Power Co	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2018	7	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
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	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV06	2.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.2
2018	8	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	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	8	61060	Cypress Creek Renewables	IPP	West Moore Solar	TX	61624	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	8	61060	Cypress Creek Renewables	IPP	West Moore Solar II	TX	61625	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	8	58970	Ecoplexus, Inc	IPP	Folsom SP and CSP Sacramento	CA	61698	FOLSM	1.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.3
2018	8	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	1.9
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	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2018	8	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2018	8	61209	NC 102 Project LLC	IPP	NC 102 Project LLC	NC	61610	NC102	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2018	8	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	8	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2018	8	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	8	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2018	9	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	105.0
2018	9	58261	Arkwright Summit Wind Farm LLC	IPP	Arkwright Summit Wind Farm LLC	NY	61673	WT	78.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.8
2018	9	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	9	56769	Consolidated Edison Development Inc.	IPP	Aurora County Wind	SD	61745	ACSD	20.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	20.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Brule County Wind	SD	61746	BCSD	20.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	20.0
2018	9	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	9	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	9	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	9	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	9	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	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
2018	9	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	9	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2018	9	61373	MERIT SI	IPP	Rotor Clip	NJ	61751	RCLIP	2.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2018	9	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	122.0
2018	9	61353	Philadelphia Authority for Industrial Development	IPP	Navy Yard Peaker Station	PA	61737	GEN4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
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	9	18454	Tampa Electric Co	Electric Utility	Balm Solar	FL	61654	PV1	74.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.4
2018	9	18454	Tampa Electric Co	Electric Utility	Payne Creek Solar	FL	61665	GEN1	70.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.3
2018	9	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	10	61259	Altair Community Solar Garden, LLC	IPP	Altair Community Solar Garden	MN	61645	ALTA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61325	Aquarius Community Solar Gardens, LLC	IPP	Aquarius Community Solar	MN	61710	AQUA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61326	Aquila Community Solar Gardens, LLC	IPP	Aquila Community Solar	MN	61704	AQUI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61327	Arcturus Community Solar Garden, LLC	IPP	Arcturus Community Solar	MN	61705	ARCT	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61328	Auriga Community Solar Garden, LLC	IPP	Auriga Community Solar	MN	61706	AURI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61230	CD Arevon USA, Inc.	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	252.3
2018	10	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	10	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	10	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	10	61329	Canopus Community Solar Garden, LLC	IPP	Canopus Community Solar	MN	61707	CANO	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61260	Capricornus Community Solar Garden, LLC	IPP	Capricornus Community Solar Garden	MN	61651	CAPR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	61337	Cassiopeia Community Solar Garden, LLC	IPP	Cassiopeia Community Solar	MN	61711	CASS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	3037	City of Carlyle - (IL)	Electric Utility	Carlyle	IL	936	11	2.8	Petroleum Liquids	DFO	IC	(OT) Other	2.8
2018	10	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	10	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	3.3
2018	10	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	10	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	10	61338	Crux Community Solar Gardens, LLC	IPP	Crux Community Solar	MN	61712	CRUX	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61060	Cypress Creek Renewables	IPP	Buckleberry Solar	NC	61693	GEN	52.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.1
2018	10	61339	Deneb Community Solar Garden, LLC	IPP	Deneb Community Solar	MN	61715	DENE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	158.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	158.0
2018	10	7019	Gay & Robinson Inc	Industrial	Gay Robinson	HI	50333	HYD3	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2018	10	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	10	61340	Hydra Community Solar, LLC	IPP	Hydra Community Solar	MN	61714	HYDR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61289	Kaus Community Solar Garden, LLC	IPP	Kaus Community Solar	MN	61716	KAUS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61342	Leo Community Solar, LLC	IPP	Leo Community Solar	MN	61713	LEO	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61334	Libra Community Solar Garden, LLC	IPP	Libra Community Solar	MN	61709	LIBR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41327	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41328	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41330	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	600.0
2018	10	61333	Sagitta Community Solar Garden, LLC	IPP	Sagitta Community Solar	MN	61708	SAGI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	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	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
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	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.9
2018	11	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	2.0
2018	11	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Mann Packing	CA	61443	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Site 2	IN	61729	SRIC2	7.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	7.5
2018	11	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	152.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.5
2018	11	58489	OCI Solar Power	IPP	Ivory Solar	TX	61697	IVORY	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.2
2018	11	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind II	CA	61582	VYGR2	128.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	128.7
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind III	CA	61583	VYGR3	43.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	43.2
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind IV	CA	61584	VYGR4	21.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	21.6
2018	12	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Carter Solar One, LLC	ID	60896	CRTON	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar East, LLC	ID	60899	JPTEA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar North, LLC	ID	60897	JPTNO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar South, LLC	ID	60898	JPTSO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar West, LLC	ID	60900	JPTWE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	166.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	166.0
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	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	212.0
2018	12	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
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	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	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	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2018	12	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	12	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Wistaria Ranch Solar	CA	61750	WICA	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	106.7
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2018	12	61060	Cypress Creek Renewables	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.2
2018	12	61060	Cypress Creek Renewables	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.2
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.0
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	12	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	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	61404	Edenton Solar	IPP	Edenton Solar	NC	61781	EDE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	56201	Engie North America	IPP	Live Oak Wind Project	TX	61782	WTGS	199.5	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	199.5
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	59745	First Solar Asset Management	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	97.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2018	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
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	61214	Heartland Divide Wind Project, LLC	IPP	Heartland Divide Wind Project, LLC	IA	61609	1	103.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	103.5
2018	12	59462	Heelstone Energy Holdings, 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	59462	Heelstone Energy Holdings, 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	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	49893	Invenergy Services LLC	IPP	Upstream Wind Energy LLC	NE	61784	UWE	202.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.5
2018	12	61133	Lorenzo Wind, LLC	IPP	Lorenzo Wind	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	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	12	61381	Meadow Lake Wind Farm VI LLC	IPP	Meadow Lake Wind Farm VI LLC	IN	61756	MWLVI	200.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.4
2018	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	182.0
2018	12	61396	Midway Wind, LLC	IPP	Midway Wind, LLC	TX	61776	MIDWY	162.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	162.8
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	CTG1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.6
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	STG	1.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.0
2018	12	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	12	61401	North 301 Solar	IPP	North 301 Solar	NC	61778	N301	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	12	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	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
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	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	53.0
2018	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7
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	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	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	12	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	12	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	12	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	12	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	12	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	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2018	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	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	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	92.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	92.0
2018	12	18454	Tampa Electric Co	Electric Utility	Bonnie Mine Solar	FL	61655	PV1	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2018	12	18454	Tampa Electric Co	Electric Utility	Grange Hall Solar	FL	61656	PV1	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2018	12	18454	Tampa Electric Co	Electric Utility	Lithia Solar	FL	61663	GEN1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	12	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2018	12	18454	Tampa Electric Co	Electric Utility	Peace Creek Solar	FL	61666	GEN	56.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.6
2018	12	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	394.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
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	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
2018	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
2018	12	61291	Wildcat Ranch Wind Project, LLC	IPP	Wildcat Ranch Wind Project	TX	61674	WT	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	12	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	12	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	12	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	12	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	12	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	12	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	12	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
2019	1	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA01	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2019	1	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA02	1.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	1.0
2019	1	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA1C	11.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.8
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
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	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	1	5701	El Paso Electric Co	Electric Utility	New Mexico Community Solar Facility	NM	61783	NMCSF	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	6452	Florida Power & Light Co	Electric Utility	Interstate Solar Energy Center	FL	61768	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Miami Dade Solar Energy Center	FL	61766	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Pioneer Trail Solar Energy Center	FL	61767	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Sunshine Gateway Solar Energy Center	FL	61763	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	1	61365	Hilltopper Wind Project, LLC	IPP	Hilltopper Wind Project	IL	61735	WT1	185.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	185.0
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	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
2019	1	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
2019	1	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
2019	1	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
2019	1	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
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	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
2019	2	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
2019	2	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
2019	2	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	18	13.5	Petroleum Liquids	DFO	GT	(U) Under construction, less than or equal to 50 percent complete	15.4
2019	2	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	19	0.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.8
2019	3	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectirc	AL	61749	GEN1		Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectirc	AL	61749	GEN2		Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectirc	AL	61749	GEN3		Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	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
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	(P) Planned for installation, but regulatory approvals not initiated	65.0
2019	3	9417	Interstate Power and Light Co	Electric Utility	English Farms	IA	61565	1	169.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	169.9
2019	3	9417	Interstate Power and Light Co	Electric Utility	Upland Prairie	IA	61564	1	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2019	3	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.0
2019	3	60987	Lanikuhana Solar LLC	IPP	Lanikuhana Solar LLC	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.7
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	220.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.8
2019	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
2019	3	59010	Rhubarb One LLC	IPP	Rhubarb One	NC	59216	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2019	3	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
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	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
2019	4	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	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	60195	Groton Fuel Cell 1, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	4	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
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	525.0
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	60195	Groton Fuel Cell 1, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
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	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	5.4
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT2	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	5.4
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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	18.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	5	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	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
2019	6	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
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
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	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	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
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	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	22.0
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	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	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
2019	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
2019	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
2019	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
2019	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
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	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
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	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	7	61276	West Liberty Renewables 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
2019	7	61276	West Liberty Renewables 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
2019	8	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
2019	8	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	25.0
2019	8	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2019	9	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
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	61302	Depot Solar Center, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	9	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	150.0
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	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	5.8
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	10.0
2019	9	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
2019	9	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
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	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
2019	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	210.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	210.4
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	10	61330	Turtle Creek Wind Farm LLC	IPP	Turtle Creek Wind Farm LLC	IA	61638	TC1	200.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.1
2019	10	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
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	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
2019	11	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
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	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	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
2019	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
2019	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
2019	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
2019	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

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	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
2019	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
2019	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
2019	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
2019	12	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Montague Wind Power Facility LLC	OR	58099	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
2019	12	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
2019	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
2019	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
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	59365	Capital Power Corporation	IPP	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	61416	Cattle Ridge Wind Holdings, 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	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2019	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
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	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	272.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	272.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
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	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2019	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
2019	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
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	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
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	59745	First Solar Asset Management	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	59745	First Solar Asset Management	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
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	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
2019	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
2019	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
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	139.0
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
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	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
2019	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
2019	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
2019	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
2019	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
2019	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
2019	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
2019	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
2019	12	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2019	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
2019	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
2019	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
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	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
2019	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
2019	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
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	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
2019	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
2019	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
2019	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
2019	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
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	60442	New Colony Wind LLC	IPP	New Colony Wind Project	MT	60718	WT1	23.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	23.1
2019	12	56622	NextEra Energy Resources	IPP	Shaw Creek Solar, LLC	SC	61790	SHAWC	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2019	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
2019	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
2019	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
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	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
2019	12	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
2019	12	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
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	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
2019	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
2019	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

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	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
2019	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
2019	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61321	Seabrook Solar, LLC	IPP	Seabrook Solar	SC	61701	GEN1	70.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
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	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2019	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
2019	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
2019	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
2019	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
2019	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
2019	12	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	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
2019	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
2019	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
2019	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
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	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	70.0
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	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
2019	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
2019	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
2019	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
2019	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
2020	1	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
2020	1	55918	Acciona Wind Energy USA LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	144.9
2020	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
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	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	1	13478	Entergy New Orleans, LLC	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	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	18454	Tampa Electric Co	Electric Utility	Alafia Solar	FL	61653	PV1	50.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	1	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2020	1	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
2020	1	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
2020	1	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	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	260.1
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	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	3	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
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	3	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	3	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
2020	3	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
2020	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	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
2020	4	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
2020	4	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	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	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	5	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	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	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
2020	6	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
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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	500.0
2020	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
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	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	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
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	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
2020	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
2020	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
2020	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
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	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
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	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
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	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	8	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	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	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	9	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH3	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	9	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH4	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
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	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(OT) Other	5.3
2020	10	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
2020	10	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	61331	Popular Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	12	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
2020	12	61257	Blazing Star 2 LLC	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	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
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	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
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	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
2020	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
2020	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
2020	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
2020	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	12	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
2020	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
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	56545	Pattern Operators LP	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	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	687.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	45.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	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
2020	12	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
2020	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	1	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
2021	1	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
2021	1	58702	Fluence	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Lake Hancock Solar	FL	61657	PV1	49.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	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
2021	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
2021	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
2021	3	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
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	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
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	4	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
2021	4	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
2021	5	14605	City of Peabody - (MA)	Electric Utility	Waters River	MA	1678	3	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	6	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	6	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	6	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	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	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
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	338.9	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	406.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	249.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	297.5
2021	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
2021	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
2021	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
2021	7	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
2021	7	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
2021	7	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
2021	7	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
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	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
2021	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
2021	12	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
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	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	135.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	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
2021	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
2021	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
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	233.7
2022	1	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
2022	1	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
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	6	61386	C4GT, LLC	IPP	C4GT	VA	61760	C4GT	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,060.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2022	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2022	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	40.0
2022	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	(OT) Other	40.0
2022	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
2022	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
2023	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
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-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2024	1	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
2024	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
2024	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
2024	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
2024	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
2024	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
2025	1	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
2025	2	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
2025	2	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
2025	2	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
2025	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
2025	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
2025	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
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2027	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
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2018	4	11460	City of Macon - (MO)	Electric Utility	Macon	MO	2141	3	4.6	Petroleum Liquids	DFO	IC
2018	4	57017	DOE National Renewable Energy Laboratory	Commercial	DOE Golden NWTC Turbine Side	CO	57693	ALSTO	3.0	Onshore Wind Turbine	WND	WT
2018	4	57400	Evergreen Community Power, LLC	Industrial	Evergreen Community Power	PA	58023	ECP	25.0	Wood/Wood Waste Biomass	WDS	ST
2018	4	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U2J02	1.0	Landfill Gas	LFG	IC
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	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	1	594.0	Conventional Steam Coal	RC	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	2	594.0	Conventional Steam Coal	RC	ST
2018	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2018	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO4	1.0	Landfill Gas	LFG	IC
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO5	1.0	Landfill Gas	LFG	IC
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	3	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	4	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
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	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	5	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	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	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	1	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	2	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	1	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	2	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	3	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	5	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	6	12.0	Petroleum Liquids	DFO	GT
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	1	11.0	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	3	17.9	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H10	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H11	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H4	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H5	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H6	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H7	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H8	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H9	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Milton L Kapp	IA	1048	2	112.5	Natural Gas Steam Turbine	NG	ST
2018	6	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	11217	Los Angeles County Sanitation	IPP	Commerce Refuse To Energy	CA	10090	GEN1	10.0	Municipal Solid Waste	MSW	ST
2018	6	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	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	6	56772	TX LFG Energy, LP	IPP	Coastal Plains	TX	55554	UNT2	1.7	Landfill Gas	LFG	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT1	1.0	Landfill Gas	LFG	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT2	1.0	Landfill Gas	LFG	IC
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	53.5	Petroleum Liquids	KER	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	8	2872	Auburndale Peaker Energy Center LLC	IPP	Auburndale Peaker Energy Center	FL	55833	CTP	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	9	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2018	9	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	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	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	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	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
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	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	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	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	15908	NRG California South LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	1	19145	DTE Tuscola, LLC	Industrial	Tuscola Station	IL	55245	TG1	3.8	Natural Gas Steam Turbine	NG	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	1	106.0	Conventional Steam Coal	BIT	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	2	166.0	Conventional Steam Coal	BIT	ST
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	2	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	12	2.8	Petroleum Liquids	DFO	GT
2019	2	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	13	2.9	Petroleum Liquids	DFO	GT
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN1	42.0	Natural Gas Fired Combined Cycle	NG	CT
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN2	8.0	Natural Gas Fired Combined Cycle	NG	CA
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	10	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	GT1	14.0	Petroleum Liquids	DFO	GT
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	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2019	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	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	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN1	46.3	Conventional Steam Coal	BIT	ST
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN2	46.3	Conventional Steam Coal	BIT	ST
2019	12	228	City of Albany - (MO)	Electric Utility	Albany	MO	2113	1	2.1	Petroleum Liquids	DFO	IC
2019	12	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 2 Power Plant	CA	10349	GEN1	49.5	Natural Gas Fired Combustion Turbine	NG	GT
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	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	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV2	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV3	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	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	1	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	2	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	3	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	4	180.0	Conventional Steam Coal	BIT	ST
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	Grand Haven Diesel Plant	MI	1826	1	8.4	Natural Gas Internal Combustion Engine	NG	IC
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	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	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
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	21.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	49.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	46.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	2	775.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,041.3	Nuclear	NUC	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	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
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	801.8	Nuclear	NUC	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	SUB	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	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	2	140.0	Conventional Steam Coal	BIT	ST
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	4	140.0	Conventional Steam Coal	BIT	ST
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN1	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN2	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN3	55.0	Petroleum Liquids	JF	GT
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	1	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	2	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	3	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	ST4	64.0	Conventional Steam Coal	BIT	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
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	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	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	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	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	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	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	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	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	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	3	102.0	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

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
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	75.0	Onshore Wind Turbine	WND	WT
2047	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2047	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	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 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-March 2018

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.8%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.1%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	53.3%	55.5%	8.3%	12.4%	9.6%	11.5%	1.1%	2.6%
2017	53.5%	54.8%	9.4%	11.3%	NA	13.0%	2.0%	NA
Year 2016								
January	56.4%	56.4%	5.0%	7.1%	9.5%	10.1%	0.6%	3.1%
February	49.1%	53.6%	5.0%	7.4%	8.6%	10.6%	0.7%	2.8%
March	36.0%	50.2%	7.1%	10.2%	8.9%	8.9%	1.1%	2.2%
April	37.8%	47.6%	8.3%	11.7%	9.2%	9.7%	0.8%	2.1%
May	41.6%	52.5%	7.6%	12.3%	9.3%	11.4%	1.1%	2.5%
June	61.2%	63.9%	9.9%	17.5%	10.3%	13.3%	1.3%	2.1%
July	69.8%	68.2%	13.7%	23.1%	11.7%	16.9%	2.1%	2.1%
August	69.3%	70.8%	13.8%	21.1%	12.7%	15.1%	2.6%	2.3%
Sept	60.4%	60.7%	9.5%	14.6%	10.3%	12.9%	1.2%	2.3%
October	50.8%	47.8%	7.8%	11.4%	8.0%	8.8%	0.9%	2.4%
November	46.2%	46.3%	6.8%	6.5%	7.9%	9.9%	0.7%	2.8%
December	61.2%	47.5%	5.1%	5.4%	8.3%	10.1%	0.5%	4.0%
Year 2017								
January	59.5%	50.4%	6.6%	4.3%	NA	10.7%	1.6%	NA
February	49.4%	48.2%	6.9%	3.9%	NA	9.5%	2.0%	NA
March	46.1%	48.1%	9.8%	7.8%	NA	12.9%	2.1%	NA
April	43.7%	45.8%	8.3%	8.6%	NA	9.5%	1.2%	NA
May	48.3%	49.4%	9.0%	9.9%	NA	15.4%	1.9%	NA
June	58.4%	60.1%	9.9%	15.4%	NA	15.3%	1.8%	NA
July	67.1%	70.2%	12.8%	21.4%	NA	18.1%	2.1%	NA
August	62.9%	69.3%	11.0%	18.5%	NA	14.3%	2.2%	NA
Sept	53.4%	58.9%	11.7%	15.4%	NA	13.5%	3.0%	NA
October	47.5%	51.2%	10.0%	14.3%	NA	11.1%	2.6%	NA
November	49.3%	48.6%	8.2%	6.8%	NA	12.7%	1.5%	NA
December	56.1%	55.3%	8.1%	8.8%	NA	13.5%	1.5%	NA
Year 2018								
January	63.8%	54.0%	12.7%	11.8%	NA	18.2%	5.0%	NA
February	49.3%	55.1%	7.8%	5.8%	NA	11.2%	0.9%	NA
March	43.8%	51.6%	10.3%	8.0%	NA	10.4%	1.4%	NA

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available

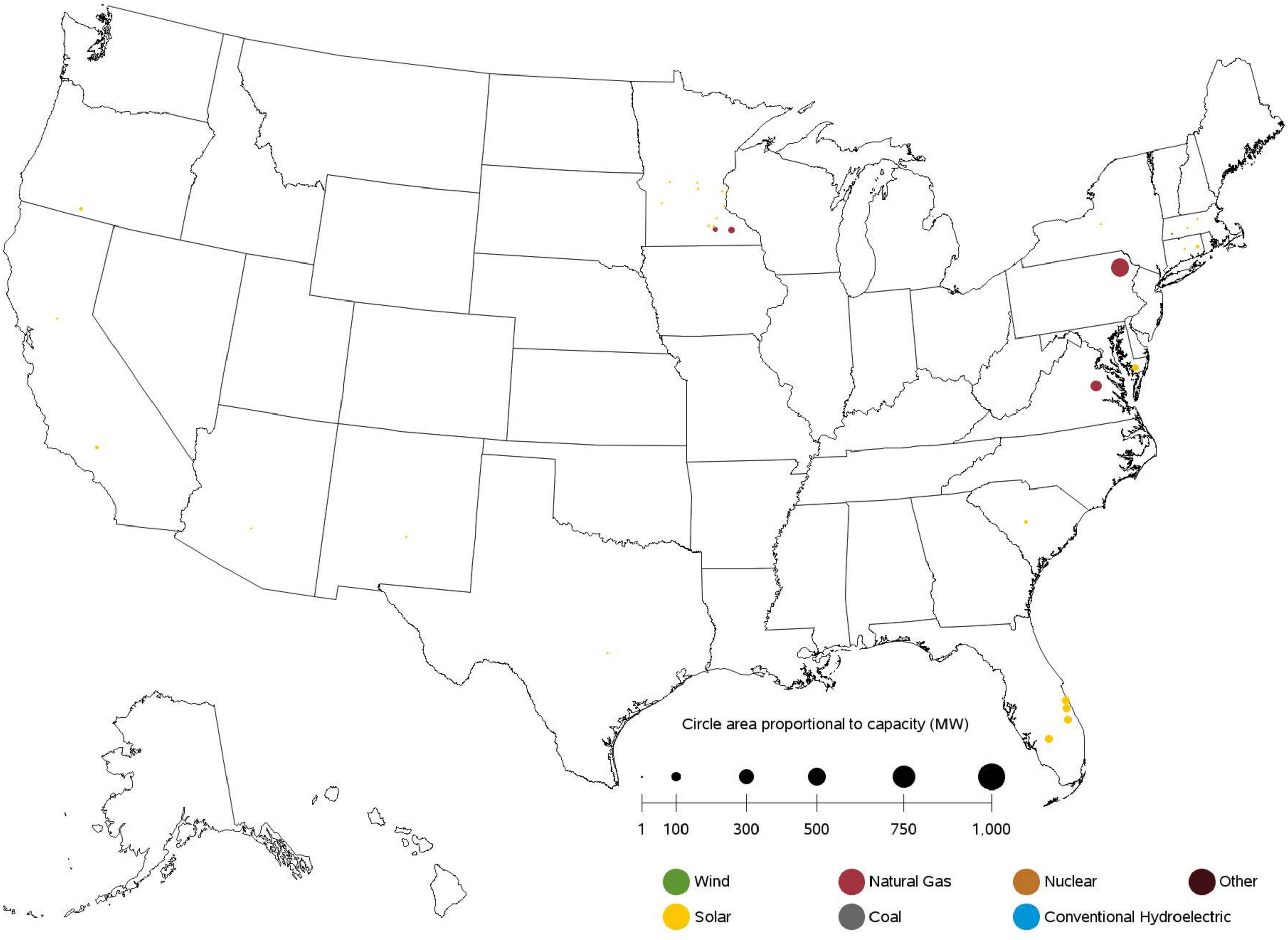
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-March 2018

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.3%	38.2%	34.5%	25.1%	22.2%	69.7%	55.6%	73.9%
2017	92.2%	45.2%	36.7%	27.0%	21.8%	70.9%	50.7%	76.4%
Year 2016								
January	98.5%	43.6%	33.9%	15.2%	6.8%	68.3%	58.5%	73.4%
February	95.3%	43.8%	39.6%	22.9%	19.5%	67.6%	61.2%	73.2%
March	89.9%	45.9%	40.2%	24.9%	19.6%	67.2%	55.8%	72.5%
April	88.1%	44.6%	39.3%	27.2%	20.9%	69.3%	45.8%	68.8%
May	90.5%	42.8%	34.2%	30.2%	28.9%	72.9%	47.0%	73.9%
June	94.2%	40.6%	30.5%	30.3%	33.5%	72.0%	54.7%	71.2%
July	94.5%	36.1%	31.9%	31.7%	36.9%	70.9%	59.3%	72.2%
August	96.1%	33.0%	24.5%	31.7%	29.2%	70.3%	63.5%	73.0%
Sept	90.9%	28.6%	30.4%	28.5%	30.2%	67.9%	58.5%	75.5%
October	81.7%	29.3%	36.4%	24.0%	19.1%	63.8%	48.9%	74.6%
November	90.9%	32.8%	35.3%	20.4%	14.4%	72.6%	54.9%	77.7%
December	96.7%	37.9%	38.8%	16.2%	7.0%	73.4%	59.6%	80.1%
Year 2017								
January	98.7%	48.4%	36.6%	16.8%	7.3%	75.4%	49.3%	79.7%
February	94.9%	47.8%	42.5%	19.8%	11.7%	71.6%	55.5%	77.9%
March	87.8%	54.1%	44.6%	27.8%	22.9%	67.7%	51.8%	74.9%
April	79.1%	53.9%	44.9%	31.0%	24.9%	67.9%	51.2%	78.6%
May	82.7%	56.8%	38.7%	34.1%	31.0%	70.6%	47.0%	74.0%
June	93.4%	57.1%	34.5%	35.7%	37.9%	72.6%	49.1%	75.2%
July	96.2%	46.2%	27.5%	33.7%	25.4%	71.3%	51.0%	78.0%
August	97.6%	37.9%	22.3%	31.2%	27.6%	72.7%	49.0%	77.4%
Sept	94.9%	34.7%	31.5%	29.6%	29.2%	69.3%	48.2%	77.8%
October	89.0%	30.2%	41.6%	26.6%	24.1%	67.0%	52.4%	69.3%
November	92.9%	35.3%	39.4%	20.1%	10.3%	71.1%	51.5%	76.6%
December	99.4%	40.0%	37.2%	17.4%	9.0%	73.3%	52.7%	77.4%
Year 2018								
January	100.7%	44.9%	42.5%	18.7%	10.0%	72.1%	54.9%	76.4%
February	96.8%	48.8%	41.9%	22.8%	16.1%	76.5%	57.2%	80.6%
March	90.4%	44.8%	44.0%	26.2%	19.3%	72.8%	52.3%	78.4%

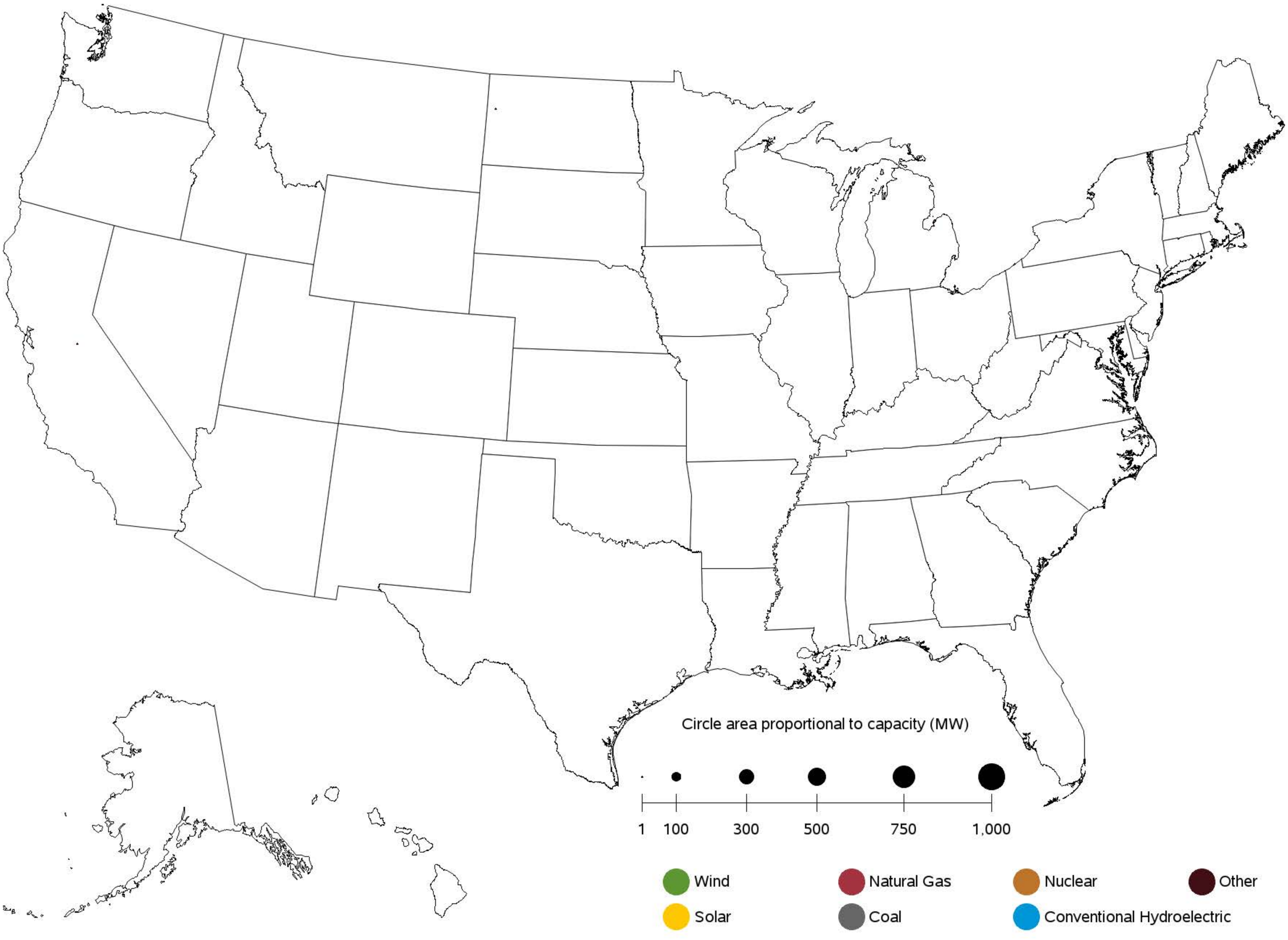
Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations 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 March 2018



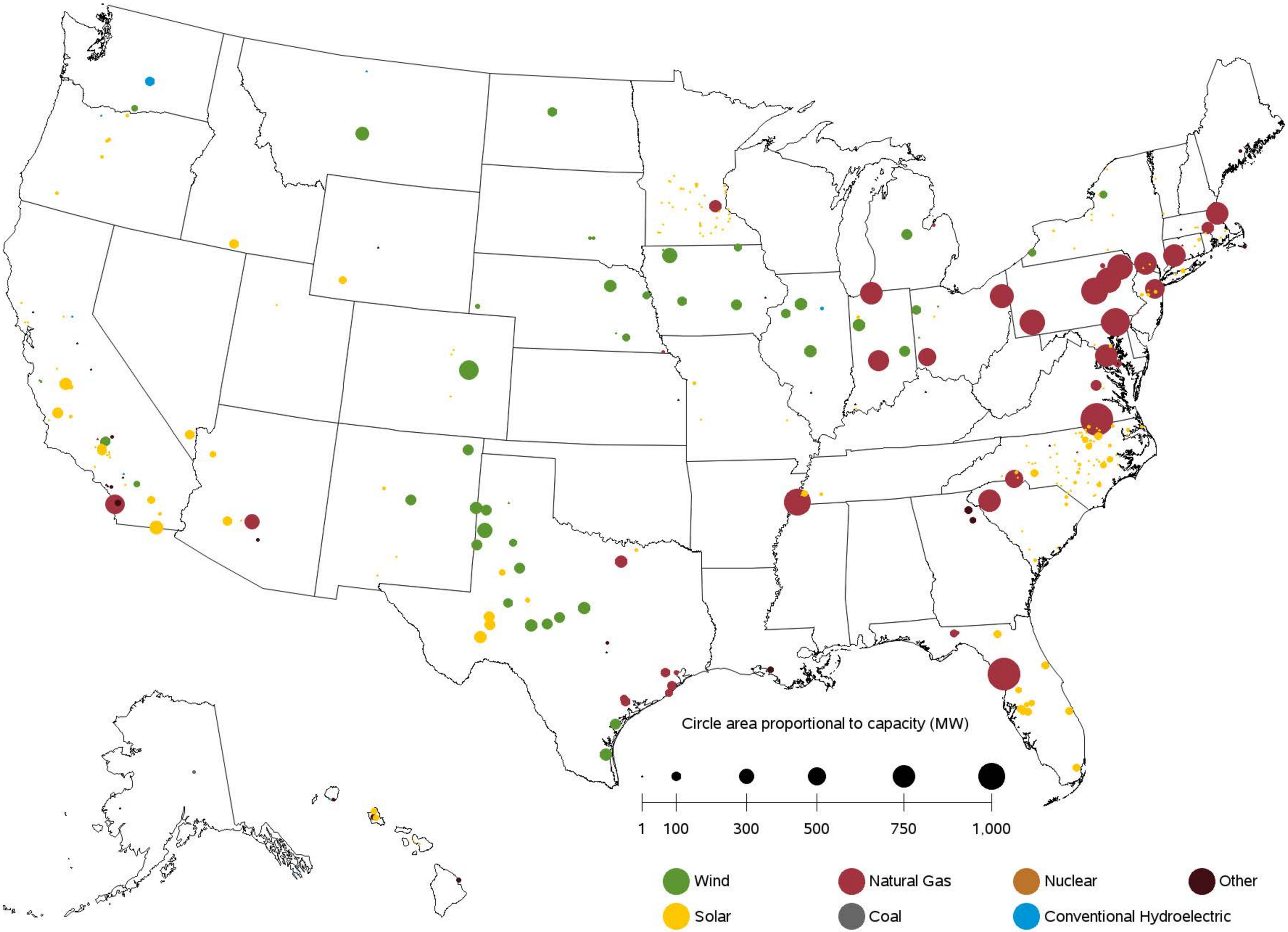
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in March 2018



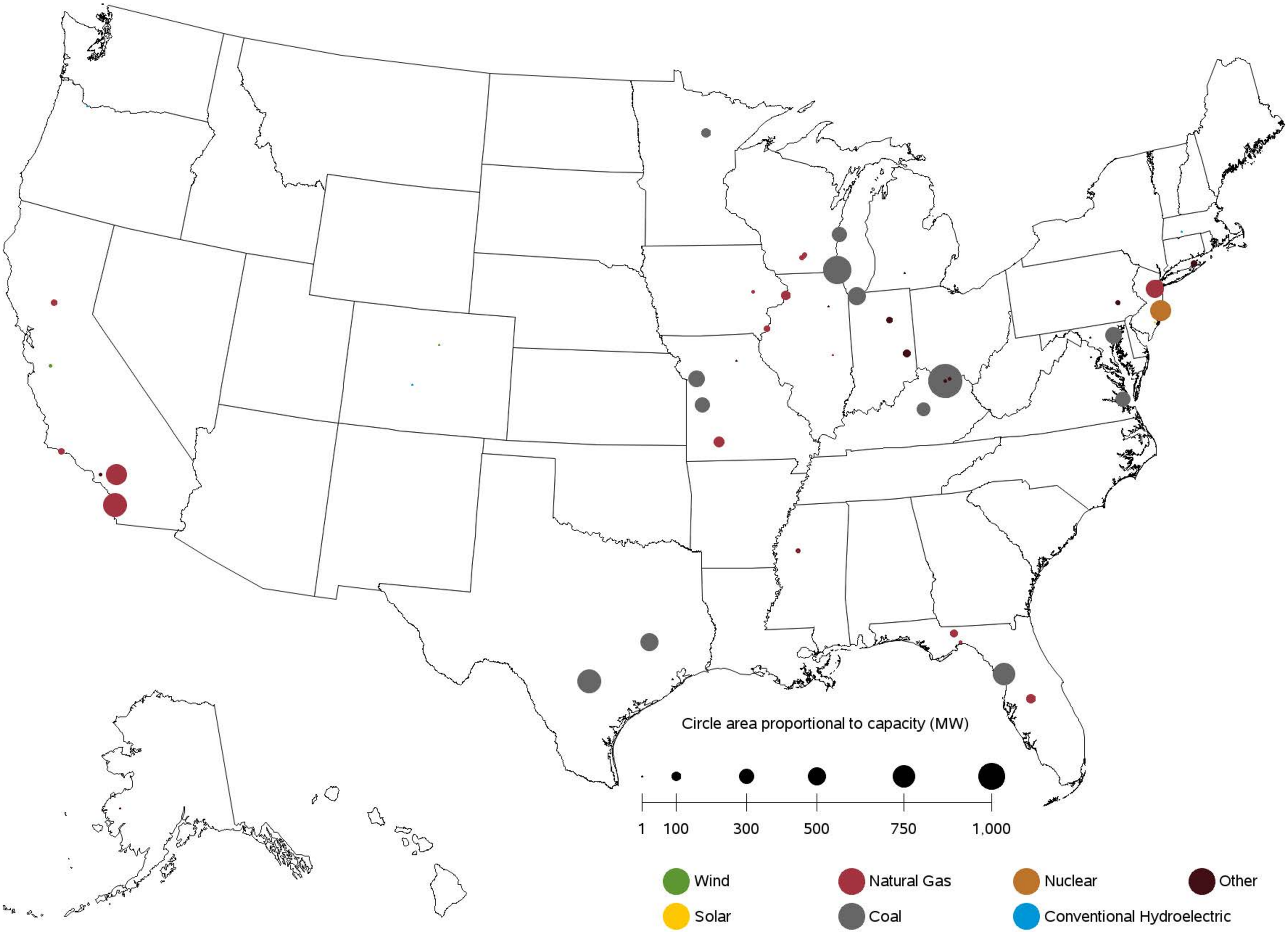
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from April 2018 to March 2019



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 April 2018 to March 2019



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

Table 7.1. Electric Power Industry - U.S. Electricity Imports from and Electricity Exports to Canada and Mexico (Megawatthours)

	Canada		Mexico		U.S. Total		
Period	Imports from	Exports to	Imports from	Exports to	Imports	Exports	Net Imports
Annual Totals							
2016	65,173,818	2,682,381	4,426,999	6,647,082	69,600,817	9,329,463	60,271,354
2017	45,738,475	2,668,289	1,962,925	6,658,184	47,701,400	9,326,473	38,374,927
Year 2016							
January	5,886,417	227,589	405,984	391,636	6,292,401	619,225	5,673,176
February	4,927,541	384,301	354,896	318,144	5,282,437	702,445	4,579,992
March	5,210,412	410,645	417,364	441,056	5,627,776	851,701	4,776,075
April	4,092,342	358,746	389,947	311,760	4,482,289	670,506	3,811,783
May	4,977,621	142,398	378,826	431,533	5,356,447	573,931	4,782,516
June	6,162,812	94,538	363,393	738,211	6,526,205	832,749	5,693,456
July	6,969,110	78,459	362,863	838,475	7,331,973	916,934	6,415,039
August	6,577,610	149,565	383,363	825,076	6,960,973	974,641	5,986,332
Sept	4,631,320	161,183	286,640	805,125	4,917,960	966,308	3,951,652
October	4,989,801	320,694	436,941	436,044	5,426,742	756,738	4,670,004
November	5,809,773	109,219	359,166	559,837	6,168,939	669,056	5,499,883
December	4,939,059	245,044	287,616	550,185	5,226,675	795,229	4,431,446
Year 2017							
January	5,277,771	172,909	325,772	658,237	5,603,543	831,146	4,772,397
February	4,131,760	359,401	282,486	600,378	4,414,246	959,779	3,454,467
March	4,598,818	663,648	223,689	521,388	4,822,507	1,185,036	3,637,471
April	5,262,194	619,414	207,404	579,407	5,469,598	1,198,821	4,270,777
May	4,912,110	341,657	129,523	532,294	5,041,633	873,951	4,167,682
June	5,637,814	242,997	104,319	819,173	5,742,133	1,062,170	4,679,963
July	5,328,084	65,828	253,399	974,208	5,581,483	1,040,036	4,541,447
August	5,874,172	63,435	276,687	1,067,167	6,150,859	1,130,602	5,020,257
Sept	4,715,752	139,000	159,646	905,932	4,875,398	1,044,932	3,830,466

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

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2008 - March 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	6,473	9,023	3,544	0	19,040
2009	6,673	8,937	3,094	0	18,704
2010	6,975	9,041	2,968	0	18,984
2011	6,587	8,832	2,832	0	18,251
2012	6,771	8,879	2,500	0	18,150
2013	6,320	8,969	2,504	0	17,793
2014	6,218	8,761	2,376	0	17,356
2015	6,314	8,586	2,355	0	17,255
2016	6,524	8,569	2,251	0	17,344
2017	5,060	7,024	1,752	0	13,837
Year 2016					
January	515	648	158	0	1,321
February	447	647	176	0	1,270
March	499	738	208	0	1,445
April	506	665	176	0	1,346
May	556	746	202	0	1,504
June	594	742	201	0	1,537
July	621	773	193	0	1,587
August	604	722	205	0	1,530
Sept	594	751	187	0	1,532
October	540	704	180	0	1,424
November	541	723	190	0	1,454
December	509	709	176	0	1,394
Year 2017					
January	509	670	160	0	1,339
February	397	594	154	0	1,145
March	492	720	192	0	1,404
April	496	648	185	0	1,329
May	527	697	182	0	1,406
June	597	714	185	0	1,496
July	592	732	201	0	1,525
August	634	741	187	0	1,563
Sept	521	384	128	0	1,033
October	16	229	11	0	256
November	42	578	28	0	648
December	238	316	139	0	692
Year 2018					
January	389	558	142	0	1,089
February	393	760	175	0	1,328
March	450	531	98	0	1,080
Year to Date					
2016	1,460	2,033	543	0	4,035
2017	1,398	1,984	506	0	3,888
2018	1,232	1,849	415	0	3,497
Rolling 12 Months Ending in March					
2017	6,462	8,521	2,214	0	17,197
2018	4,895	6,890	1,661	0	13,445

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

Table 8.2 Puerto Rico- Revenue from Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2008 - March 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,574	2,285	734	0	4,593
2009	1,313	1,868	518	0	3,699
2010	1,521	2,103	564	0	4,188
2011	1,748	2,483	663	0	4,894
2012	1,690	2,605	647	0	4,942
2013	1,633	2,474	570	0	4,678
2014	1,636	2,394	551	0	4,581
2015	1,282	1,850	417	0	3,549
2016	1,170	1,677	356	0	3,203
2017	1,008	1,545	328	0	2,881
Year 2016					
January	86	120	23	0	229
February	75	118	25	0	218
March	79	131	29	0	239
April	86	124	26	0	235
May	91	139	29	0	259
June	103	141	30	0	274
July	110	150	30	0	291
August	118	154	36	0	308
Sept	111	146	31	0	288
October	108	155	33	0	296
November	102	147	32	0	282
December	101	152	31	0	284
Year 2017					
January	102	142	30	0	273
February	90	143	31	0	264
March	96	151	34	0	280
April	99	143	34	0	276
May	108	157	34	0	299
June	117	151	33	0	302
July	118	160	36	0	315
August	130	166	35	0	331
Sept	91	74	21	0	186
October	3	46	2	0	51
November	8	115	5	0	128
December	45	98	34	0	177
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	280
Year to Date					
2016	240	369	77	0	687
2017	288	435	94	0	817
2018	272	479	86	0	836
Rolling 12 Months Ending in March					
2017	1,217	1,743	374	0	3,334
2018	992	1,588	320	0	2,900

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

Table 8.3 Puerto Rico- Number of Ultimate Customers Served by Sector: Total by End-Use Sector, 2008 - March 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,318,498	133,223	1,225	0	1,452,946
2009	1,330,507	132,620	828	0	1,463,955
2010	1,339,703	133,029	790	0	1,473,522
2011	1,341,708	132,738	750	0	1,475,196
2012	1,349,750	131,264	721	0	1,481,735
2013	1,340,989	131,034	694	0	1,472,717
2014	1,328,546	129,122	662	0	1,458,330
2015	1,326,631	127,365	647	0	1,454,643
2016	1,332,152	127,179	633	0	1,459,964
2017	1,337,741	127,064	617	0	1,465,421
Year 2016					
January	1,327,936	127,058	640	0	1,455,634
February	1,328,227	127,040	637	0	1,455,904
March	1,329,387	127,155	636	0	1,457,178
April	1,331,140	127,236	635	0	1,459,011
May	1,332,103	127,264	636	0	1,460,003
June	1,332,712	127,158	635	0	1,460,505
July	1,333,672	127,327	633	0	1,461,632
August	1,333,858	127,218	631	0	1,461,707
Sept	1,331,317	126,967	627	0	1,458,911
October	1,334,555	127,221	626	0	1,462,402
November	1,335,163	127,237	629	0	1,463,029
December	1,335,753	127,265	627	0	1,463,645
Year 2017					
January	1,336,466	127,250	626	0	1,464,342
February	1,337,086	127,228	625	0	1,464,939
March	1,335,398	127,146	619	0	1,463,163
April	1,337,149	127,085	619	0	1,464,853
May	1,337,941	127,047	617	0	1,465,605
June	1,339,358	127,118	615	0	1,467,091
July	1,338,876	127,048	613	0	1,466,537
August	1,337,743	127,025	614	0	1,465,382
Sept	1,338,958	127,055	614	0	1,466,627
October	1,337,246	126,947	614	0	1,464,807
November	1,338,102	126,940	612	0	1,465,654
December	1,338,568	126,876	611	0	1,466,055
Year 2018					
January	1,338,417	126,681	611	0	1,465,709
February	1,337,561	126,422	612	0	1,464,595
March	1,338,960	126,367	613	0	1,465,940
Rolling 12 Months Ending in March					
2017	1,334,102	127,210	629	0	1,461,941
2018	1,338,240	126,884	614	0	1,465,738

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

Table 8.4 Puerto Rico- Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - March 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	24.32	25.32	20.72	--	24.12
2009	19.68	20.91	16.73	--	19.78
2010	21.80	23.26	19.01	--	22.06
2011	26.54	28.11	23.39	--	26.82
2012	24.96	29.34	25.89	--	27.23
2013	25.84	27.59	22.77	--	26.29
2014	26.31	27.33	23.18	--	26.39
2015	20.31	21.55	17.71	--	20.57
2016	17.93	19.57	15.83	--	18.47
2017	19.91	22.00	18.73	--	20.82
Year 2016					
January	16.78	18.54	14.39	--	17.36
February	16.74	18.31	14.23	--	17.19
March	15.90	17.70	14.02	--	16.55
April	16.91	18.58	14.52	--	17.42
May	16.33	18.63	14.61	--	17.24
June	17.32	19.01	15.12	--	17.85
July	17.78	19.39	15.74	--	18.31
August	19.50	21.38	17.42	--	20.11
Sept	18.66	19.42	16.61	--	18.78
October	20.07	22.02	18.35	--	20.82
November	18.88	20.34	17.04	--	19.37
December	19.79	21.45	17.90	--	20.40
Year 2017					
January	20.01	21.16	18.50	--	20.40
February	22.71	24.01	20.18	--	23.05
March	19.43	20.96	17.51	--	19.95
April	20.06	22.13	18.16	--	20.80
May	20.51	22.49	18.76	--	21.27
June	19.63	21.18	17.91	--	20.16
July	19.93	21.87	18.17	--	20.63
August	20.47	22.39	18.64	--	21.16
Sept	17.51	19.24	16.12	--	17.98
October	19.09	19.91	18.17	--	19.78
November	18.76	19.91	18.17	--	19.76
December	19.07	30.87	24.37	--	25.52
Year 2018					
January	22.11	28.53	22.32	--	25.43
February	19.32	22.48	18.45	--	21.02
March	24.40	27.97	22.42	--	25.97
Year to Date					
2016	16.47	18.16	14.20	--	17.02
2017	20.57	21.94	18.64	--	21.02
2018	22.05	25.89	20.71	--	23.92
Rolling 12 Months Ending in March					
2017	18.83	20.46	16.87	--	19.39
2018	20.26	23.06	19.25	--	21.57

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

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**4**	**8**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	39	0	1	0	0	36
Maine	27	43	0	14	0	0	11
Massachusetts	0	6	0	4	0	0	23
New Hampshire	0	11	0	0	0	0	21
Rhode Island	0	64	0	12	0	0	0
Vermont	0	114	0	0	0	0	18
Middle Atlantic	**5**	**10**	**87**	**1**	**17**	**0**	**2**
New Jersey	0	19	0	2	0	0	73
New York	0	13	0	3	0	0	2
Pennsylvania	5	12	131	1	23	0	13
East North Central	**1**	**4**	**0**	**1**	**8**	**0**	**14**
Illinois	0	7	0	6	0	0	38
Indiana	1	2	0	3	12	0	27
Michigan	3	7	0	1	0	0	28
Ohio	1	5	0	1	19	0	26
Wisconsin	1	53	0	2	0	0	21
West North Central	**1**	**11**	**0**	**3**	**0**	**0**	**10**
Iowa	1	16	0	4	0	0	38
Kansas	3	3	0	12	0	0	0
Minnesota	3	65	0	5	0	0	32
Missouri	0	5	0	7	0	0	17
Nebraska	4	227	0	41	0	0	28
North Dakota	0	15	0	28	0	0	24
South Dakota	0	306	0	41	0	0	16
South Atlantic	**1**	**4**	**14**	**1**	**0**	**0**	**7**
Delaware	0	83	0	6	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	44
Georgia	1	20	63	3	0	0	13
Maryland	0	9	0	3	0	0	2
North Carolina	0	3	0	2	0	0	11
South Carolina	0	9	0	1	0	0	16
Virginia	4	13	0	3	0	0	17
West Virginia	3	0	0	40	0	0	17
East South Central	**0**	**5**	**0**	**1**	**89**	**0**	**5**
Alabama	0	48	0	2	117	0	6
Kentucky	0	1	0	2	0	0	14
Mississippi	0	5	0	2	0	0	0
Tennessee	0	0	0	3	0	0	8
West South Central	**0**	**5**	**1**	**1**	**5**	**0**	**7**
Arkansas	0	3	0	4	0	0	10
Louisiana	0	19	0	2	8	0	17
Oklahoma	0	2	0	4	0	0	12
Texas	0	12	42	1	4	0	18
Mountain	**1**	**10**	**0**	**1**	**3**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	42	0	1	0	0	22
Idaho	106	0	0	24	0	0	12
Montana	4	28	0	27	0	0	11
Nevada	0	0	0	0	0	0	3
New Mexico	0	104	0	3	0	0	78
Utah	0	1	0	4	0	0	37
Wyoming	4	1	0	7	3	0	33
Pacific Contiguous	**0**	**25**	**0**	**1**	**2**	**0**	**2**
California	0	25	0	1	3	0	8
Oregon	0	0	0	1	0	0	4
Washington	0	69	0	5	0	0	1
Pacific Noncontiguous	**15**	**1**	**0**	**17**	**0**	**0**	**25**
Alaska	49	4	0	17	0	0	26
Hawaii	0	1	0	0	0	0	34
U.S. Total	**0**	**1**	**3**	**0**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, March 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	30	14	0	0	1
Maine	0	0	0	99	6	0	0	5
Massachusetts	0	0	0	9	6	0	1	3
New Hampshire	0	0	0	0	15	0	0	3
Rhode Island	0	0	0	51	8	0	0	10
Vermont	0	0	0	26	11	0	0	11
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	17	4	0	2	1
Pennsylvania	0	0	0	28	4	0	0	1
East North Central	**0**	**0**	**0**	**10**	**2**	**0**	**3**	**0**
Illinois	0	0	0	20	3	0	0	0
Indiana	0	0	0	15	4	0	0	1
Michigan	0	0	0	22	5	0	8	1
Ohio	0	0	0	26	3	0	0	1
Wisconsin	0	0	0	52	6	0	39	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**4**	**1**
Iowa	0	0	0	85	3	0	0	2
Kansas	0	0	0	108	2	0	0	1
Minnesota	0	0	0	8	4	0	3	2
Missouri	0	0	0	33	4	0	0	1
Nebraska	0	0	0	66	5	0	0	3
North Dakota	0	0	0	0	4	0	34	2
South Dakota	0	0	0	235	7	0	0	7
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	33	22	0	0	6
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	2	2	0	1	1
Georgia	0	0	0	6	4	0	16	1
Maryland	0	0	0	13	7	0	0	1
North Carolina	0	0	0	3	2	0	0	1
South Carolina	0	0	0	12	5	0	0	1
Virginia	0	0	0	11	7	0	0	2
West Virginia	0	0	0	0	7	0	0	2
East South Central	**0**	**0**	**0**	**7**	**3**	**0**	**0**	**1**
Alabama	0	0	0	13	5	0	0	1
Kentucky	0	0	0	40	16	0	0	1
Mississippi	0	0	0	4	5	0	0	1
Tennessee	0	0	0	23	7	0	0	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	224	5	0	2	1
Oklahoma	0	0	0	41	2	0	0	2
Texas	0	0	0	3	1	0	5	1
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	2	0	0	1
Idaho	0	23	0	13	6	0	0	8
Montana	0	0	0	57	8	0	0	5
Nevada	0	6	0	2	3	0	0	1
New Mexico	0	0	0	8	3	0	0	1
Utah	0	10	0	7	5	0	0	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	15	0	14	4	0	0	3
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**13**	**0**	**16**	**7**	**0**	**0**	**5**
Alaska	0	0	0	0	22	0	0	12
Hawaii	0	13	0	16	8	0	0	1
U.S. Total	**0**	**3**	**0**	**2**	**1**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**4**	**8**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	39	0	1	0	0	36
Maine	27	43	0	14	0	0	11
Massachusetts	0	6	0	4	0	0	23
New Hampshire	0	11	0	0	0	0	21
Rhode Island	0	64	0	12	0	0	0
Vermont	0	114	0	0	0	0	18
Middle Atlantic	**5**	**10**	**87**	**1**	**17**	**0**	**2**
New Jersey	0	19	0	2	0	0	73
New York	0	13	0	3	0	0	2
Pennsylvania	5	12	131	1	23	0	13
East North Central	**1**	**4**	**0**	**1**	**8**	**0**	**14**
Illinois	0	7	0	6	0	0	38
Indiana	1	2	0	3	12	0	27
Michigan	3	7	0	1	0	0	28
Ohio	1	5	0	1	19	0	26
Wisconsin	1	53	0	2	0	0	21
West North Central	**1**	**11**	**0**	**3**	**0**	**0**	**10**
Iowa	1	16	0	4	0	0	38
Kansas	3	3	0	12	0	0	0
Minnesota	3	65	0	5	0	0	32
Missouri	0	5	0	7	0	0	17
Nebraska	4	227	0	41	0	0	28
North Dakota	0	15	0	28	0	0	24
South Dakota	0	306	0	41	0	0	16
South Atlantic	**1**	**4**	**14**	**1**	**0**	**0**	**7**
Delaware	0	83	0	6	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	44
Georgia	1	20	63	3	0	0	13
Maryland	0	9	0	3	0	0	2
North Carolina	0	3	0	2	0	0	11
South Carolina	0	9	0	1	0	0	16
Virginia	4	13	0	3	0	0	17
West Virginia	3	0	0	40	0	0	17
East South Central	**0**	**5**	**0**	**1**	**89**	**0**	**5**
Alabama	0	48	0	2	117	0	6
Kentucky	0	1	0	2	0	0	14
Mississippi	0	5	0	2	0	0	0
Tennessee	0	0	0	3	0	0	8
West South Central	**0**	**5**	**1**	**1**	**5**	**0**	**7**
Arkansas	0	3	0	4	0	0	10
Louisiana	0	19	0	2	8	0	17
Oklahoma	0	2	0	4	0	0	12
Texas	0	12	42	1	4	0	18
Mountain	**1**	**10**	**0**	**1**	**3**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	42	0	1	0	0	22
Idaho	106	0	0	24	0	0	12
Montana	4	28	0	27	0	0	11
Nevada	0	0	0	0	0	0	3
New Mexico	0	104	0	3	0	0	78
Utah	0	1	0	4	0	0	37
Wyoming	4	1	0	7	3	0	33
Pacific Contiguous	**0**	**25**	**0**	**1**	**2**	**0**	**2**
California	0	25	0	1	3	0	8
Oregon	0	0	0	1	0	0	4
Washington	0	69	0	5	0	0	1
Pacific Noncontiguous	**15**	**1**	**0**	**17**	**0**	**0**	**25**
Alaska	49	4	0	17	0	0	26
Hawaii	0	1	0	0	0	0	34
U.S. Total	**0**	**1**	**3**	**0**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through March 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	30	14	0	0	1
Maine	0	0	0	99	6	0	0	5
Massachusetts	0	0	0	9	6	0	1	3
New Hampshire	0	0	0	0	15	0	0	3
Rhode Island	0	0	0	51	8	0	0	10
Vermont	0	0	0	26	11	0	0	11
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	17	4	0	2	1
Pennsylvania	0	0	0	28	4	0	0	1
East North Central	**0**	**0**	**0**	**10**	**2**	**0**	**3**	**0**
Illinois	0	0	0	20	3	0	0	0
Indiana	0	0	0	15	4	0	0	1
Michigan	0	0	0	22	5	0	8	1
Ohio	0	0	0	26	3	0	0	1
Wisconsin	0	0	0	52	6	0	39	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**4**	**1**
Iowa	0	0	0	85	3	0	0	2
Kansas	0	0	0	108	2	0	0	1
Minnesota	0	0	0	8	4	0	3	2
Missouri	0	0	0	33	4	0	0	1
Nebraska	0	0	0	66	5	0	0	3
North Dakota	0	0	0	0	4	0	34	2
South Dakota	0	0	0	235	7	0	0	7
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	33	22	0	0	6
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	2	2	0	1	1
Georgia	0	0	0	6	4	0	16	1
Maryland	0	0	0	13	7	0	0	1
North Carolina	0	0	0	3	2	0	0	1
South Carolina	0	0	0	12	5	0	0	1
Virginia	0	0	0	11	7	0	0	2
West Virginia	0	0	0	0	7	0	0	2
East South Central	**0**	**0**	**0**	**7**	**3**	**0**	**0**	**1**
Alabama	0	0	0	13	5	0	0	1
Kentucky	0	0	0	40	16	0	0	1
Mississippi	0	0	0	4	5	0	0	1
Tennessee	0	0	0	23	7	0	0	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	2	5	0	0	2
Louisiana	0	0	0	224	5	0	2	1
Oklahoma	0	0	0	41	2	0	0	2
Texas	0	0	0	3	1	0	5	1
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	2	0	0	1
Idaho	0	23	0	13	6	0	0	8
Montana	0	0	0	57	8	0	0	5
Nevada	0	6	0	2	3	0	0	1
New Mexico	0	0	0	8	3	0	0	1
Utah	0	10	0	7	5	0	0	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	15	0	14	4	0	0	3
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**13**	**0**	**16**	**7**	**0**	**0**	**5**
Alaska	0	0	0	0	22	0	0	12
Hawaii	0	13	0	16	8	0	0	1
U.S. Total	**0**	**3**	**0**	**2**	**1**	**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.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, March 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	1	0	.	1
Massachusetts	0	0	2	.	0
New Hampshire	1	0	0	.	0
Rhode Island	1	0	0	.	0
Vermont	2	2	71	.	2
Middle Atlantic	**0**	**1**	**3**	**.**	**0**
New Jersey	0	1	4	.	1
New York	0	0	1	.	0
Pennsylvania	2	4	0	.	2
East North Central	**3**	**5**	**30**	**.**	**3**
Illinois	6	21	0	.	12
Indiana	7	5	0	.	4
Michigan	4	34	405	.	16
Ohio	5	6	67	.	5
Wisconsin	8	20	10	.	8
West North Central	**2**	**1**	**7**	**.**	**1**
Iowa	7	3	33	.	3
Kansas	12	10	0	.	8
Minnesota	7	6	6	.	4
Missouri	2	1	0	.	1
Nebraska	17	38	51	.	16
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**3**	**.**	**1**
Delaware	4	4	23	.	3
District of Columbia	0	0	0	.	0
Florida	5	8	5	.	4
Georgia	96	177	0	.	86
Maryland	1	2	4	.	1
North Carolina	10	2	0	.	6
South Carolina	3	7	0	.	2
Virginia	11	10	16	.	8
West Virginia	0	0	0	.	0
East South Central	**6**	**27**	**0**	**.**	**9**
Alabama	0	0	0	.	0
Kentucky	7	31	0	.	12
Mississippi	10	69	0	.	36
Tennessee	0	0	0	.	0
West South Central	**4**	**8**	**0**	**.**	**4**
Arkansas	22	9	0	.	13
Louisiana	3	7	0	.	3
Oklahoma	20	4	0	.	14
Texas	7	11	0	.	6
Mountain	**1**	**0**	**0**	**.**	**0**
Arizona	1	0	0	.	0
Colorado	3	1	15	.	2
Idaho	3	2	0	.	2
Montana	13	5	0	.	9
Nevada	0	0	0	.	0
New Mexico	4	2	0	.	2
Utah	2	1	0	.	1
Wyoming	35	16	0	.	23
Pacific Contiguous	**0**	**1**	**0**	**.**	**0**
California	0	1	0	.	0
Oregon	2	5	10	.	2
Washington	2	18	73	.	3
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	3	4	0	.	2
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**20**	**0**	**66**	**0**	**0**	**20**
Connecticut	0	37	0	0	0	0	24
Maine	0	0	0	0	0	0	0
Massachusetts	0	104	0	131	0	0	54
New Hampshire	0	14	0	0	0	0	34
Rhode Island	0	0	0	0	0	0	0
Vermont	0	114	0	0	0	0	28
Middle Atlantic	**0**	**28**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	125	0	133	0	0	0
New York	0	28	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**2**	**10**	**0**	**15**
Illinois	0	26	0	0	0	0	92
Indiana	1	2	0	8	171	0	27
Michigan	3	8	0	3	0	0	29
Ohio	4	8	0	2	0	0	32
Wisconsin	0	93	0	2	0	0	23
West North Central	**1**	**12**	**0**	**4**	**0**	**0**	**10**
Iowa	1	16	0	4	0	0	38
Kansas	3	3	0	12	0	0	0
Minnesota	3	95	0	5	0	0	39
Missouri	0	5	0	11	0	0	17
Nebraska	4	227	0	42	0	0	28
North Dakota	0	15	0	29	0	0	24
South Dakota	0	318	0	41	0	0	16
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	44
Georgia	0	7	0	3	0	0	13
Maryland	0	22	0	0	0	0	0
North Carolina	0	2	0	1	0	0	11
South Carolina	0	12	0	0	0	0	16
Virginia	4	19	0	4	0	0	17
West Virginia	0	0	0	0	0	0	29
East South Central	**0**	**1**	**0**	**2**	**0**	**0**	**5**
Alabama	0	8	0	7	0	0	6
Kentucky	0	1	0	2	0	0	14
Mississippi	0	29	0	2	0	0	0
Tennessee	0	0	0	3	0	0	8
West South Central	**0**	**5**	**0**	**3**	**0**	**0**	**8**
Arkansas	0	3	0	19	0	0	11
Louisiana	0	19	0	3	0	0	0
Oklahoma	0	2	0	6	0	0	12
Texas	0	16	0	5	0	0	18
Mountain	**1**	**10**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	42	0	1	0	0	22
Idaho	0	0	0	104	0	0	12
Montana	0	1,251	0	29	0	0	11
Nevada	0	0	0	0	0	0	0
New Mexico	0	104	0	5	0	0	78
Utah	0	1	0	4	0	0	37
Wyoming	4	1	0	43	0	0	33
Pacific Contiguous	**0**	**29**	**0**	**1**	**0**	**0**	**2**
California	0	29	0	1	0	0	7
Oregon	0	0	0	2	0	0	4
Washington	0	465	0	10	0	0	1
Pacific Noncontiguous	**97**	**1**	**0**	**17**	**0**	**0**	**27**
Alaska	97	5	0	17	0	0	27
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**10**	**0**	**2**

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

Electric Utilities by Census Division and State, March 2018 (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**	**6**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	12
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	54	38	0	0	38
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	48	9	0	0	13
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	32
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**	**7**	**0**	**3**	**1**
Illinois	0	0	0	0	25	0	0	1
Indiana	0	0	0	27	14	0	0	1
Michigan	0	0	0	22	8	0	0	2
Ohio	0	0	0	79	64	0	0	3
Wisconsin	0	0	0	0	13	0	34	1
West North Central	**0**	**0**	**0**	**59**	**3**	**0**	**6**	**1**
Iowa	0	0	0	93	3	0	0	2
Kansas	0	0	0	0	5	0	0	2
Minnesota	0	0	0	155	7	0	0	2
Missouri	0	0	0	0	42	0	0	1
Nebraska	0	0	0	0	20	0	0	3
North Dakota	0	0	0	0	6	0	34	2
South Dakota	0	0	0	0	12	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**5**	**0**	**0**	**0**
Delaware	0	0	0	88	88	0	0	73
Florida	0	0	0	1	1	0	0	1
Georgia	0	0	0	14	14	0	0	1
Maryland	0	0	0	79	79	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	5	0	0	1
Virginia	0	0	0	21	16	0	0	2
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**33**	**22**	**0**	**0**	**1**
Alabama	0	0	0	55	55	0	0	1
Kentucky	0	0	0	40	24	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**38**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	235	235	0	0	2
Louisiana	0	0	0	224	224	0	0	2
Oklahoma	0	0	0	41	7	0	0	3
Texas	0	0	0	136	21	0	0	2
Mountain	**0**	**14**	**0**	**7**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	141	29	0	0	1
Idaho	0	0	0	0	26	0	0	12
Montana	0	0	0	0	24	0	0	10
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	14	14	0	0	2
Utah	0	14	0	0	14	0	0	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	96	5	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**23**	**0**	**0**	**7**
Alaska	0	0	0	0	34	0	0	13
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**3**	**2**	**0**	**2**	**0**

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

Electric Utilities by Census Division and State, Year-to-Date through March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**20**	**0**	**66**	**0**	**0**	**20**
Connecticut	0	37	0	0	0	0	24
Maine	0	0	0	0	0	0	0
Massachusetts	0	104	0	131	0	0	54
New Hampshire	0	14	0	0	0	0	34
Rhode Island	0	0	0	0	0	0	0
Vermont	0	114	0	0	0	0	28
Middle Atlantic	**0**	**28**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	125	0	133	0	0	0
New York	0	28	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**6**	**0**	**2**	**10**	**0**	**15**
Illinois	0	26	0	0	0	0	92
Indiana	1	2	0	8	171	0	27
Michigan	3	8	0	3	0	0	29
Ohio	4	8	0	2	0	0	32
Wisconsin	0	93	0	2	0	0	23
West North Central	**1**	**12**	**0**	**4**	**0**	**0**	**10**
Iowa	1	16	0	4	0	0	38
Kansas	3	3	0	12	0	0	0
Minnesota	3	95	0	5	0	0	39
Missouri	0	5	0	11	0	0	17
Nebraska	4	227	0	42	0	0	28
North Dakota	0	15	0	29	0	0	24
South Dakota	0	318	0	41	0	0	16
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	44
Georgia	0	7	0	3	0	0	13
Maryland	0	22	0	0	0	0	0
North Carolina	0	2	0	1	0	0	11
South Carolina	0	12	0	0	0	0	16
Virginia	4	19	0	4	0	0	17
West Virginia	0	0	0	0	0	0	29
East South Central	**0**	**1**	**0**	**2**	**0**	**0**	**5**
Alabama	0	8	0	7	0	0	6
Kentucky	0	1	0	2	0	0	14
Mississippi	0	29	0	2	0	0	0
Tennessee	0	0	0	3	0	0	8
West South Central	**0**	**5**	**0**	**3**	**0**	**0**	**8**
Arkansas	0	3	0	19	0	0	11
Louisiana	0	19	0	3	0	0	0
Oklahoma	0	2	0	6	0	0	12
Texas	0	16	0	5	0	0	18
Mountain	**1**	**10**	**0**	**1**	**0**	**0**	**6**
Arizona	0	5	0	1	0	0	6
Colorado	0	42	0	1	0	0	22
Idaho	0	0	0	104	0	0	12
Montana	0	1,251	0	29	0	0	11
Nevada	0	0	0	0	0	0	0
New Mexico	0	104	0	5	0	0	78
Utah	0	1	0	4	0	0	37
Wyoming	4	1	0	43	0	0	33
Pacific Contiguous	**0**	**29**	**0**	**1**	**0**	**0**	**2**
California	0	29	0	1	0	0	7
Oregon	0	0	0	2	0	0	4
Washington	0	465	0	10	0	0	1
Pacific Noncontiguous	**97**	**1**	**0**	**17**	**0**	**0**	**27**
Alaska	97	5	0	17	0	0	27
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**10**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through March 2018 (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**	**6**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	12
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	54	38	0	0	38
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	48	9	0	0	13
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	32
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**	**7**	**0**	**3**	**1**
Illinois	0	0	0	0	25	0	0	1
Indiana	0	0	0	27	14	0	0	1
Michigan	0	0	0	22	8	0	0	2
Ohio	0	0	0	79	64	0	0	3
Wisconsin	0	0	0	0	13	0	34	1
West North Central	**0**	**0**	**0**	**59**	**3**	**0**	**6**	**1**
Iowa	0	0	0	93	3	0	0	2
Kansas	0	0	0	0	5	0	0	2
Minnesota	0	0	0	155	7	0	0	2
Missouri	0	0	0	0	42	0	0	1
Nebraska	0	0	0	0	20	0	0	3
North Dakota	0	0	0	0	6	0	34	2
South Dakota	0	0	0	0	12	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**5**	**0**	**0**	**0**
Delaware	0	0	0	88	88	0	0	73
Florida	0	0	0	1	1	0	0	1
Georgia	0	0	0	14	14	0	0	1
Maryland	0	0	0	79	79	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	5	0	0	1
Virginia	0	0	0	21	16	0	0	2
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**33**	**22**	**0**	**0**	**1**
Alabama	0	0	0	55	55	0	0	1
Kentucky	0	0	0	40	24	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**38**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	235	235	0	0	2
Louisiana	0	0	0	224	224	0	0	2
Oklahoma	0	0	0	41	7	0	0	3
Texas	0	0	0	136	21	0	0	2
Mountain	**0**	**14**	**0**	**7**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	141	29	0	0	1
Idaho	0	0	0	0	26	0	0	12
Montana	0	0	0	0	24	0	0	10
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	14	14	0	0	2
Utah	0	14	0	0	14	0	0	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	96	5	0	0	3
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**23**	**0**	**0**	**7**
Alaska	0	0	0	0	34	0	0	13
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**3**	**2**	**0**	**2**	**0**

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

Independent Power Producers by Census Division and State, March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	44	0	1	0	0	43
Maine	0	46	0	13	0	0	12
Massachusetts	0	5	0	4	0	0	26
New Hampshire	0	494	0	0	0	0	24
Rhode Island	0	99	0	12	0	0	0
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**5**	**9**	**0**	**1**	**0**	**0**	**11**
New Jersey	0	19	0	2	0	0	73
New York	0	16	0	3	0	0	10
Pennsylvania	5	12	0	1	0	0	14
East North Central	**0**	**4**	**0**	**1**	**7**	**0**	**38**
Illinois	0	5	0	6	0	0	42
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	105
Ohio	1	6	0	1	22	0	43
Wisconsin	0	0	0	0	0	0	103
West North Central	**0**	**29**	**0**	**8**	**0**	**0**	**69**
Iowa	0	68	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	31	0	25	0	0	76
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**11**	**0**	**2**	**0**	**0**	**6**
Delaware	0	91	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	21	0	9	0	0	0
Georgia	0	216	0	7	0	0	63
Maryland	0	10	0	4	0	0	2
North Carolina	0	76	0	10	0	0	64
South Carolina	0	0	0	5	0	0	55
Virginia	0	10	0	2	0	0	46
West Virginia	9	0	0	93	0	0	31
East South Central	**0**	**54**	**0**	**0**	**0**	**0**	**180**
Alabama	0	81	0	0	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**	**18**	**0**	**1**	**0**	**0**	**16**
Arkansas	0	0	0	0	0	0	90
Louisiana	0	0	0	1	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	21	0	1	0	0	0
Mountain	**4**	**6**	**0**	**3**	**0**	**0**	**30**
Arizona	0	0	0	3	0	0	0
Colorado	0	0	0	5	0	0	74
Idaho	0	0	0	29	0	0	37
Montana	5	7	0	53	0	0	91
Nevada	0	0	0	0	0	0	89
New Mexico	0	0	0	3	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**24**	**0**	**1**	**0**	**0**	**30**
California	0	0	0	1	0	0	44
Oregon	0	0	0	0	0	0	64
Washington	0	42	0	5	0	0	51
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	39	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**0**	**1**	**4**	**0**	**7**

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

Independent Power Producers by Census Division and State, March 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**6**	**0**	**1**	**1**
Connecticut	0	0	0	31	14	0	0	1
Maine	0	0	0	99	8	0	0	6
Massachusetts	0	0	0	9	6	0	1	3
New Hampshire	0	0	0	0	19	0	0	3
Rhode Island	0	0	0	51	8	0	0	11
Vermont	0	0	0	31	24	0	0	17
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	10	5	0	0	1
New York	0	0	0	17	4	0	0	1
Pennsylvania	0	0	0	31	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**2**	**0**	**13**	**0**
Illinois	0	0	0	19	3	0	0	0
Indiana	0	0	0	17	4	0	0	1
Michigan	0	0	0	69	6	0	19	1
Ohio	0	0	0	28	3	0	0	1
Wisconsin	0	0	0	52	7	0	0	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**2**
Iowa	0	0	0	206	5	0	0	3
Kansas	0	0	0	166	2	0	0	2
Minnesota	0	0	0	8	4	0	0	4
Missouri	0	0	0	35	4	0	0	2
Nebraska	0	0	0	66	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	235	9	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	36	27	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	9	4	0	1	4
Georgia	0	0	0	7	5	0	0	6
Maryland	0	0	0	14	8	0	0	1
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	12	15	0	0	5
Virginia	0	0	0	12	8	0	0	2
West Virginia	0	0	0	0	7	0	0	8
East South Central	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Alabama	0	0	0	13	12	0	0	0
Kentucky	0	0	0	224	72	0	0	3
Mississippi	0	0	0	4	4	0	0	0
Tennessee	0	0	0	24	18	0	0	17
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	8	0	0	0
Louisiana	0	0	0	0	30	0	0	2
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	1	0	0	1
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	3
Colorado	0	0	0	9	2	0	0	2
Idaho	0	23	0	13	6	0	0	9
Montana	0	0	0	57	9	0	0	4
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	3	0	0	2
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	15	0	14	5	0	0	3
Washington	0	0	0	0	6	0	0	4
Pacific Noncontiguous	**0**	**13**	**0**	**19**	**10**	**0**	**0**	**3**
Alaska	0	0	0	0	46	0	0	32
Hawaii	0	13	0	19	10	0	0	3
U.S. Total	**0**	**3**	**0**	**2**	**1**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	44	0	1	0	0	43
Maine	0	46	0	13	0	0	12
Massachusetts	0	5	0	4	0	0	26
New Hampshire	0	494	0	0	0	0	24
Rhode Island	0	99	0	12	0	0	0
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**5**	**9**	**0**	**1**	**0**	**0**	**11**
New Jersey	0	19	0	2	0	0	73
New York	0	16	0	3	0	0	10
Pennsylvania	5	12	0	1	0	0	14
East North Central	**0**	**4**	**0**	**1**	**7**	**0**	**38**
Illinois	0	5	0	6	0	0	42
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	105
Ohio	1	6	0	1	22	0	43
Wisconsin	0	0	0	0	0	0	103
West North Central	**0**	**29**	**0**	**8**	**0**	**0**	**69**
Iowa	0	68	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	31	0	25	0	0	76
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**11**	**0**	**2**	**0**	**0**	**6**
Delaware	0	91	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	21	0	9	0	0	0
Georgia	0	216	0	7	0	0	63
Maryland	0	10	0	4	0	0	2
North Carolina	0	76	0	10	0	0	64
South Carolina	0	0	0	5	0	0	55
Virginia	0	10	0	2	0	0	46
West Virginia	9	0	0	93	0	0	31
East South Central	**0**	**54**	**0**	**0**	**0**	**0**	**180**
Alabama	0	81	0	0	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**	**18**	**0**	**1**	**0**	**0**	**16**
Arkansas	0	0	0	0	0	0	90
Louisiana	0	0	0	1	0	0	17
Oklahoma	0	0	0	0	0	0	0
Texas	0	21	0	1	0	0	0
Mountain	**4**	**6**	**0**	**3**	**0**	**0**	**30**
Arizona	0	0	0	3	0	0	0
Colorado	0	0	0	5	0	0	74
Idaho	0	0	0	29	0	0	37
Montana	5	7	0	53	0	0	91
Nevada	0	0	0	0	0	0	89
New Mexico	0	0	0	3	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**24**	**0**	**1**	**0**	**0**	**30**
California	0	0	0	1	0	0	44
Oregon	0	0	0	0	0	0	64
Washington	0	42	0	5	0	0	51
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	39	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**0**	**1**	**4**	**0**	**7**

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

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 March 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**6**	**0**	**1**	**1**
Connecticut	0	0	0	31	14	0	0	1
Maine	0	0	0	99	8	0	0	6
Massachusetts	0	0	0	9	6	0	1	3
New Hampshire	0	0	0	0	19	0	0	3
Rhode Island	0	0	0	51	8	0	0	11
Vermont	0	0	0	31	24	0	0	17
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	10	5	0	0	1
New York	0	0	0	17	4	0	0	1
Pennsylvania	0	0	0	31	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**2**	**0**	**13**	**0**
Illinois	0	0	0	19	3	0	0	0
Indiana	0	0	0	17	4	0	0	1
Michigan	0	0	0	69	6	0	19	1
Ohio	0	0	0	28	3	0	0	1
Wisconsin	0	0	0	52	7	0	0	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**2**
Iowa	0	0	0	206	5	0	0	3
Kansas	0	0	0	166	2	0	0	2
Minnesota	0	0	0	8	4	0	0	4
Missouri	0	0	0	35	4	0	0	2
Nebraska	0	0	0	66	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	235	9	0	0	9
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	36	27	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	9	4	0	1	4
Georgia	0	0	0	7	5	0	0	6
Maryland	0	0	0	14	8	0	0	1
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	12	15	0	0	5
Virginia	0	0	0	12	8	0	0	2
West Virginia	0	0	0	0	7	0	0	8
East South Central	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**0**
Alabama	0	0	0	13	12	0	0	0
Kentucky	0	0	0	224	72	0	0	3
Mississippi	0	0	0	4	4	0	0	0
Tennessee	0	0	0	24	18	0	0	17
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	8	0	0	0
Louisiana	0	0	0	0	30	0	0	2
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	1	0	0	1
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	3
Colorado	0	0	0	9	2	0	0	2
Idaho	0	23	0	13	6	0	0	9
Montana	0	0	0	57	9	0	0	4
Nevada	0	6	0	3	3	0	0	2
New Mexico	0	0	0	9	3	0	0	2
Utah	0	14	0	7	6	0	0	5
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	15	0	14	5	0	0	3
Washington	0	0	0	0	6	0	0	4
Pacific Noncontiguous	**0**	**13**	**0**	**19**	**10**	**0**	**0**	**3**
Alaska	0	0	0	0	46	0	0	32
Hawaii	0	13	0	19	10	0	0	3
U.S. Total	**0**	**3**	**0**	**2**	**1**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**22**	**0**	**0**	**0**
Connecticut	0	962	0	30	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	22	0	36	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**72**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	24	0	0	0
New York	0	83	0	28	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**42**	**28**	**0**	**11**	**0**	**0**	**0**
Illinois	61	368	0	42	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	7	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	13	0	0	0
West North Central	**0**	**21**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	21	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	641	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	14	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	34	0	0	0
West South Central	**0**	**11**	**0**	**38**	**0**	**0**	**508**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	41	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	49	0	0	508
Mountain	**0**	**0**	**0**	**10**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	43	0	0	0
Utah	0	0	0	6	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**4**	**0**	**0**	**130**
California	0	23	0	4	0	0	130
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**41**	**3**	**0**	**0**	**0**	**0**	**80**
Alaska	41	4	0	0	0	0	80
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**10**	**0**	**6**	**0**	**0**	**63**

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, March 2018 (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**	**60**	**6**	**0**	**0**	**16**
Connecticut	0	0	0	0	0	0	0	30
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	60	20	0	0	29
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**	**19**	**5**	**0**	**4**	**9**
New Jersey	0	0	0	19	8	0	0	8
New York	0	0	0	116	9	0	10	18
Pennsylvania	0	0	0	95	8	0	0	3
East North Central	**0**	**0**	**0**	**119**	**6**	**0**	**0**	**8**
Illinois	0	0	0	166	117	0	0	37
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	152	30	0	0	3
Wisconsin	0	0	0	0	17	0	0	10
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**45**	**6**
Iowa	0	0	0	0	24	0	0	5
Kansas	0	0	0	0	160	0	0	160
Minnesota	0	0	0	0	44	0	45	16
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	641
South Atlantic	**0**	**0**	**0**	**20**	**7**	**0**	**0**	**2**
Delaware	0	0	0	197	30	0	0	30
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	82	25	0	0	19
Georgia	0	0	0	136	136	0	0	93
Maryland	0	0	0	89	29	0	0	2
North Carolina	0	0	0	21	20	0	0	14
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**124**	**124**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	124	124	0	0	33
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**32**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	41
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	40
Mountain	**0**	**0**	**0**	**24**	**20**	**0**	**0**	**9**
Arizona	0	0	0	48	48	0	0	6
Colorado	0	0	0	59	68	0	0	56
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	31	31	0	0	15
New Mexico	0	0	0	0	204	0	0	42
Utah	0	0	0	0	0	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**21**	**6**	**0**	**0**	**3**
California	0	0	0	21	6	0	0	3
Oregon	0	0	0	0	33	0	0	14
Washington	0	0	0	0	53	0	0	21
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	45
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**3**	**0**	**2**	**4**

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

Commercial Sector by Census Division and State, Year-to-Date through March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**12**	**0**	**22**	**0**	**0**	**0**
Connecticut	0	962	0	30	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	22	0	36	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**72**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	24	0	0	0
New York	0	83	0	28	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**42**	**28**	**0**	**11**	**0**	**0**	**0**
Illinois	61	368	0	42	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	7	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	13	0	0	0
West North Central	**0**	**21**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	21	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	641	0	0	0	0	0
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	14	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	34	0	0	0
West South Central	**0**	**11**	**0**	**38**	**0**	**0**	**508**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	41	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	49	0	0	508
Mountain	**0**	**0**	**0**	**10**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	43	0	0	0
Utah	0	0	0	6	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**4**	**0**	**0**	**130**
California	0	23	0	4	0	0	130
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**41**	**3**	**0**	**0**	**0**	**0**	**80**
Alaska	41	4	0	0	0	0	80
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**10**	**0**	**6**	**0**	**0**	**63**

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 March 2018 (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**	**60**	**6**	**0**	**0**	**16**
Connecticut	0	0	0	0	0	0	0	30
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	60	20	0	0	29
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**	**19**	**5**	**0**	**4**	**9**
New Jersey	0	0	0	19	8	0	0	8
New York	0	0	0	116	9	0	10	18
Pennsylvania	0	0	0	95	8	0	0	3
East North Central	**0**	**0**	**0**	**119**	**6**	**0**	**0**	**8**
Illinois	0	0	0	166	117	0	0	37
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	152	30	0	0	3
Wisconsin	0	0	0	0	17	0	0	10
West North Central	**0**	**0**	**0**	**0**	**19**	**0**	**45**	**6**
Iowa	0	0	0	0	24	0	0	5
Kansas	0	0	0	0	160	0	0	160
Minnesota	0	0	0	0	44	0	45	16
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	641
South Atlantic	**0**	**0**	**0**	**20**	**7**	**0**	**0**	**2**
Delaware	0	0	0	197	30	0	0	30
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	82	25	0	0	19
Georgia	0	0	0	136	136	0	0	93
Maryland	0	0	0	89	29	0	0	2
North Carolina	0	0	0	21	20	0	0	14
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**124**	**124**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	124	124	0	0	33
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**32**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	41
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	40
Mountain	**0**	**0**	**0**	**24**	**20**	**0**	**0**	**9**
Arizona	0	0	0	48	48	0	0	6
Colorado	0	0	0	59	68	0	0	56
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	31	31	0	0	15
New Mexico	0	0	0	0	204	0	0	42
Utah	0	0	0	0	0	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**21**	**6**	**0**	**0**	**3**
California	0	0	0	21	6	0	0	3
Oregon	0	0	0	0	33	0	0	14
Washington	0	0	0	0	53	0	0	21
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	45
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**3**	**0**	**2**	**4**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**134**	**70**	**0**	**18**	**0**	**0**	**28**
Connecticut	0	0	0	19	0	0	0
Maine	134	70	0	55	0	0	29
Massachusetts	0	0	0	11	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**25**	**9**	**87**	**12**	**17**	**0**	**21**
New Jersey	0	0	0	12	0	0	0
New York	0	0	0	10	0	0	21
Pennsylvania	29	71	131	20	23	0	0
East North Central	**6**	**10**	**0**	**7**	**11**	**0**	**54**
Illinois	6	0	0	22	0	0	0
Indiana	0	1	0	10	11	0	0
Michigan	30	42	0	13	0	0	102
Ohio	68	0	0	23	0	0	0
Wisconsin	17	194	0	14	0	0	61
West North Central	**4**	**0**	**0**	**4**	**0**	**0**	**67**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	74	0	0	0
Minnesota	11	0	0	0	0	0	67
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	53	0	0	0	0	0	0
South Atlantic	**21**	**27**	**63**	**8**	**0**	**0**	**25**
Delaware	0	0	0	0	0	0	0
Florida	68	49	0	17	0	0	0
Georgia	69	95	63	28	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	15	44	0	34	0	0	458
South Carolina	0	0	0	14	0	0	0
Virginia	19	83	0	9	0	0	0
West Virginia	0	0	0	0	0	0	25
East South Central	**8**	**35**	**0**	**12**	**89**	**0**	**0**
Alabama	73	123	0	21	117	0	0
Kentucky	0	0	0	21	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**0**	**18**	**2**	**6**	**0**	**0**
Arkansas	0	0	0	26	0	0	0
Louisiana	0	0	0	3	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	42	2	9	0	0
Mountain	**19**	**0**	**0**	**4**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	106	0	0	32	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	20	0	0	7	3	0	0
Pacific Contiguous	**0**	**67**	**0**	**1**	**3**	**0**	**0**
California	0	13	0	1	3	0	0
Oregon	0	0	0	31	0	0	0
Washington	0	90	0	18	0	0	0
Pacific Noncontiguous	**0**	**1**	**0**	**0**	**0**	**0**	**104**
Alaska	0	6	0	0	0	0	0
Hawaii	0	0	0	0	0	0	104
U.S. Total	**3**	**6**	**26**	**2**	**5**	**0**	**16**

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

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

Industrial Sector by Census Division and State, March 2018 (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**	**744**	**9**	**0**	**0**	**9**
Connecticut	0	0	0	744	744	0	0	19
Maine	0	0	0	0	9	0	0	12
Massachusetts	0	0	0	0	0	0	0	10
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**62**	**9**	**0**	**0**	**7**
New Jersey	0	0	0	93	93	0	0	7
New York	0	0	0	0	17	0	0	7
Pennsylvania	0	0	0	81	10	0	0	11
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**4**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	25	0	0	8
Michigan	0	0	0	0	10	0	0	8
Ohio	0	0	0	0	12	0	0	9
Wisconsin	0	0	0	0	10	0	55	9
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	66
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	10
North Dakota	0	0	0	0	56	0	0	32
South Atlantic	**0**	**0**	**0**	**171**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	60	0	0	1
Florida	0	0	0	171	6	0	0	5
Georgia	0	0	0	0	5	0	16	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	5
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	18
East South Central	**0**	**0**	**0**	**136**	**4**	**0**	**0**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	20	0	0	15
Mississippi	0	0	0	0	6	0	0	9
Tennessee	0	0	0	136	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**2**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	6	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	9
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	6
Pacific Contiguous	**0**	**0**	**0**	**50**	**7**	**0**	**3**	**2**
California	0	0	0	50	12	0	3	1
Oregon	0	0	0	0	14	0	0	13
Washington	0	0	0	0	9	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	3
Hawaii	0	0	0	0	0	0	0	14
U.S. Total	**0**	**0**	**0**	**35**	**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 March 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**134**	**70**	**0**	**18**	**0**	**0**	**28**
Connecticut	0	0	0	19	0	0	0
Maine	134	70	0	55	0	0	29
Massachusetts	0	0	0	11	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**25**	**9**	**87**	**12**	**17**	**0**	**21**
New Jersey	0	0	0	12	0	0	0
New York	0	0	0	10	0	0	21
Pennsylvania	29	71	131	20	23	0	0
East North Central	**6**	**10**	**0**	**7**	**11**	**0**	**54**
Illinois	6	0	0	22	0	0	0
Indiana	0	1	0	10	11	0	0
Michigan	30	42	0	13	0	0	102
Ohio	68	0	0	23	0	0	0
Wisconsin	17	194	0	14	0	0	61
West North Central	**4**	**0**	**0**	**4**	**0**	**0**	**67**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	74	0	0	0
Minnesota	11	0	0	0	0	0	67
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	53	0	0	0	0	0	0
South Atlantic	**21**	**27**	**63**	**8**	**0**	**0**	**25**
Delaware	0	0	0	0	0	0	0
Florida	68	49	0	17	0	0	0
Georgia	69	95	63	28	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	15	44	0	34	0	0	458
South Carolina	0	0	0	14	0	0	0
Virginia	19	83	0	9	0	0	0
West Virginia	0	0	0	0	0	0	25
East South Central	**8**	**35**	**0**	**12**	**89**	**0**	**0**
Alabama	73	123	0	21	117	0	0
Kentucky	0	0	0	21	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**0**	**18**	**2**	**6**	**0**	**0**
Arkansas	0	0	0	26	0	0	0
Louisiana	0	0	0	3	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	42	2	9	0	0
Mountain	**19**	**0**	**0**	**4**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	106	0	0	32	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	20	0	0	7	3	0	0
Pacific Contiguous	**0**	**67**	**0**	**1**	**3**	**0**	**0**
California	0	13	0	1	3	0	0
Oregon	0	0	0	31	0	0	0
Washington	0	90	0	18	0	0	0
Pacific Noncontiguous	**0**	**1**	**0**	**0**	**0**	**0**	**104**
Alaska	0	6	0	0	0	0	0
Hawaii	0	0	0	0	0	0	104
U.S. Total	**3**	**6**	**26**	**2**	**5**	**0**	**16**

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

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

Industrial Sector by Census Division and State, Year-to-Date through March 2018 (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**	**744**	**9**	**0**	**0**	**9**
Connecticut	0	0	0	744	744	0	0	19
Maine	0	0	0	0	9	0	0	12
Massachusetts	0	0	0	0	0	0	0	10
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**62**	**9**	**0**	**0**	**7**
New Jersey	0	0	0	93	93	0	0	7
New York	0	0	0	0	17	0	0	7
Pennsylvania	0	0	0	81	10	0	0	11
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**4**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	25	0	0	8
Michigan	0	0	0	0	10	0	0	8
Ohio	0	0	0	0	12	0	0	9
Wisconsin	0	0	0	0	10	0	55	9
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	66
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	10
North Dakota	0	0	0	0	56	0	0	32
South Atlantic	**0**	**0**	**0**	**171**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	60	0	0	1
Florida	0	0	0	171	6	0	0	5
Georgia	0	0	0	0	5	0	16	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	5
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	18
East South Central	**0**	**0**	**0**	**136**	**4**	**0**	**0**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	20	0	0	15
Mississippi	0	0	0	0	6	0	0	9
Tennessee	0	0	0	136	7	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**2**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	6	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	9
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	6
Pacific Contiguous	**0**	**0**	**0**	**50**	**7**	**0**	**3**	**2**
California	0	0	0	50	12	0	3	1
Oregon	0	0	0	0	14	0	0	13
Washington	0	0	0	0	9	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Alaska	0	0	0	0	0	0	0	3
Hawaii	0	0	0	0	0	0	0	14
U.S. Total	**0**	**0**	**0**	**35**	**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, March 2018

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through March 2018

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

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, March 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**1**
Connecticut	0	2	2	0	1
Maine	1	2	2	0	1
Massachusetts	1	2	4	0	1
New Hampshire	1	2	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	7	5	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**1**	**1**	**2**	**0**	**1**
Illinois	1	2	2	0	1
Indiana	1	4	2	0	1
Michigan	1	1	4	0	1
Ohio	1	2	3	0	1
Wisconsin	2	3	7	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	3	6	8	0	3
Kansas	3	2	7	0	2
Minnesota	2	3	8	0	2
Missouri	2	4	6	0	2
Nebraska	3	6	11	0	4
North Dakota	3	4	9	0	4
South Dakota	4	7	14	0	4
South Atlantic	**1**	**1**	**2**	**0**	**0**
Delaware	2	6	10	0	3
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	2	1	4	0	1
Maryland	0	1	4	0	1
North Carolina	2	1	3	0	1
South Carolina	2	2	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	2	2	3	0	1
Kentucky	2	5	4	0	2
Mississippi	3	3	5	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	3	4	0	2
Louisiana	2	2	2	0	1
Oklahoma	3	2	5	0	2
Texas	2	1	2	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	2	5	8	0	3
Idaho	2	4	6	0	2
Montana	3	5	21	0	4
Nevada	1	3	2	0	1
New Mexico	4	8	11	0	4
Utah	3	6	4	0	3
Wyoming	4	6	5	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	2	3	12	0	2
Washington	1	3	10	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	3	6	13	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

by End-Use Sector, Census Division, and State, Year-to-Date through March 2018

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

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Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, March 2018

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through March 2018

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

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Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	1	01/01/2018 5:43 PM	. .	. Hours, . Minutes	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 6:21 PM	01/02/2018 6:11 PM	23 Hours, 50 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 9:37 PM	01/02/2018 10:30 AM	12 Hours, 53 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/02/2018 6:45 AM	01/02/2018 9:00 AM	2 Hours, 15 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	System-wide voltage reductions of 3 percent or more-Severe Weather	14998	Unknown
2018	1	01/02/2018 7:30 AM	. .	. Hours, . Minutes	South Carolina Electric and Gas	SERC	South Carolina:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	0	717000
2018	1	01/02/2018 10:00 AM	02/12/2018 8:00 AM	982 Hours, 0 Minutes	Somerset Operating Company, LLC	NPCC	New York: Niagara County:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	675	Unknown
2018	1	01/15/2018 4:20 AM	01/18/2018 5:48 AM	73 Hours, 28 Minutes	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 1:57 PM	01/16/2018 2:32 PM	0 Hours, 35 Minutes	ERCOT	TRE	Texas:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/17/2018 5:10 AM	01/17/2018 1:00 PM	7 Hours, 50 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1788	420000
2018	1	01/17/2018 6:10 AM	01/17/2018 2:00 PM	7 Hours, 50 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/18/2018 5:00 AM	01/18/2018 9:45 AM	4 Hours, 45 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1760	420000
2018	1	01/18/2018 5:00 AM	01/18/2018 11:00 AM	6 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Arkansas: Mississippi: Louisiana: Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	31500	Unknown
2018	1	01/18/2018 6:00 AM	. .	. Hours, . Minutes	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	2	02/08/2018 1:25 PM	02/08/2018 1:31 PM	0 Hours, 6 Minutes	Pacific Gas & Electric Co	WECC	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-System Operations	30	10900
2018	3	03/01/2018 11:43 AM	03/01/2018 11:56 AM	0 Hours, 13 Minutes	Pacific Gas & Electric Co	WECC	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-Severe Weather	38	10898
2018	3	03/01/2018 9:57 PM	03/02/2018 10:14 AM	12 Hours, 17 Minutes	The Illuminating Company	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	86501
2018	3	03/01/2018 10:20 PM	03/04/2018 8:00 PM	69 Hours, 40 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Washtenaw County, Oakland County, Macomb County, Monroe County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	95000
2018	3	03/02/2018 7:00 AM	. .	. Hours, . Minutes	Central Hudson Gas & Elec Corp	NPCC	New York: Dutchess County, Orange County, Greene County, Ulster County, Putnam County, Sullivan County, Albany County, Columbia County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2018	3	03/02/2018 8:00 AM	03/03/2018 11:00 PM	39 Hours, 0 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65198
2018	3	03/02/2018 8:42 AM	. .	. Hours, . 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	Unknown	63331

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	3	03/02/2018 11:34 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2018	3	03/02/2018 11:58 AM	. .	. Hours, . Minutes	PPL Electric Utilities Corp	RF	Pennsylvania: Berks County, Bucks County, Carbon County, Chester County, Clinton County, Columbia County, Cumberland County, Dauphin County, Juniata County, Lackawanna County, Lancaster County, Lebanon County, Lehigh County, Luzerne County, Lycoming County, Monroe County, Montgomery County, Montour County, Northampton County, Northumberland County, Pike County, Schuylkill County, Snyder 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	Unknown	126000
2018	3	03/02/2018 12:00 PM	. .	. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	670	474019
2018	3	03/02/2018 12:00 PM	03/05/2018 12:00 AM	60 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	630000
2018	3	03/02/2018 1:51 PM	03/04/2018 12:11 PM	46 Hours, 20 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233136
2018	3	03/02/2018 1:51 PM	03/05/2018 1:18 PM	71 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-Severe Weather	Unknown	325000
2018	3	03/02/2018 3:10 PM	03/06/2018 4:57 AM	85 Hours, 47 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	249322
2018	3	03/02/2018 3:46 PM	03/04/2018 7:46 PM	52 Hours, 0 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New York County, Westchester County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72353
2018	3	03/02/2018 5:00 PM	03/06/2018 11:00 AM	90 Hours, 0 Minutes	Delmarva Power & Light Company	RF	Delaware: Maryland:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60000
2018	3	03/07/2018 12:00 PM	03/07/2018 5:00 PM	5 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	3	03/07/2018 4:10 PM	03/10/2018 11:32 AM	67 Hours, 22 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	216800
2018	3	03/07/2018 5:15 PM	. .	. Hours, . Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	50	58000
2018	3	03/07/2018 7:37 PM	03/10/2018 4:35 PM	68 Hours, 58 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	102000
2018	3	03/13/2018 8:50 AM	03/14/2018 11:22 PM	38 Hours, 32 Minutes	ISO New England	NPCC	Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	123629
2018	3	03/19/2018 11:29 PM	03/20/2018 3:37 AM	4 Hours, 8 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	261	78220
2018	3	03/20/2018 7:00 PM	03/25/2018 6:30 AM	107 Hours, 30 Minutes	Atlantic City Electric Co	RF	New Jersey: Atlantic County, Camden County, Cape May County, Gloucester County, Salem County, Cumberland County, Burlington County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	80	124000
2018	3	03/24/2018 10:30 PM	03/26/2018 8:00 PM	45 Hours, 30 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	81227

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, 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	. .	. Hours, . 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
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	. .	. Hours, . 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
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	. .	. Hours, . 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-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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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.2 Major Disturbances and Unusual Occurrences, 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	. .	. Hours, . 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	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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	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	. .	. Hours, . Minutes	Ameren Missouri	SERC	Missouri: Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000
2017	7	07/27/2017 6:00 AM	07/27/2017 11:29 AM	5 Hours, 29 Minutes	California Department of Water Resources	WECC	California: Butte County	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2017

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2017	8	08/21/2017 11:41 PM	08/22/2017 12:21 AM	0 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-System Operations	1	2
2017	8	08/25/2017 6:17 PM	09/02/2017 5:00 PM	190 Hours, 43 Minutes	American Electric Power - Texas	TRE	Texas: Matagorda County, Nueces County, Aransas County, Refugio County, San Patricio County, Calhoun County, Victoria County, Jackson County, Live Oak County, Jim Wells County, Bee County, Lavaca County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	220400
2017	8	08/25/2017 6:30 PM	09/05/2017 5:00 PM	262 Hours, 30 Minutes	ERCOT	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	330000
2017	8	08/26/2017 12:39 AM	08/26/2017 12:52 AM	0 Hours, 13 Minutes	ERCOT	TRE	Texas	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	Unknown
2017	8	08/26/2017 6:26 AM	09/08/2017 12:00 AM	305 Hours, 34 Minutes	CenterPoint Energy	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	1076868
2017	8	08/27/2017 5:10 AM	09/08/2017 12:00 AM	282 Hours, 50 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	1076868
2017	8	08/30/2017 2:15 AM	. .	. Hours, . Minutes	Entergy Corp	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	78500
2017	8	08/31/2017 2:49 PM	08/31/2017 5:14 PM	2 Hours, 25 Minutes	Southern California Edison Co	WECC	California: Los Angeles County	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	100	0
2017	9	09/01/2017 3:41 PM	09/01/2017 8:30 PM	4 Hours, 49 Minutes	Southern California Edison Co	WECC	California:	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	337	0
2017	9	09/09/2017 12:00 AM	. .	. Hours, . Minutes	Tampa Electric Company	FRCC	Florida: Hillsborough County, Pasco County, Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1275	425000
2017	9	09/09/2017 12:30 PM	. .	. Hours, . Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	3500000
2017	9	09/10/2017 6:35 PM	09/13/2017 5:00 PM	70 Hours, 25 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Brevard County, Citrus County, Columbia County, Dixie County, Flagler County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Leon County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Po	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	4500	1000000
2017	9	09/10/2017 8:37 PM	. .	. 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	452555
2017	9	09/11/2017 12:30 AM	. .	. Hours, . Minutes	Lakeland Electric	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	20000
2017	9	09/11/2017 2:27 AM	09/15/2017 8:44 PM	114 Hours, 17 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	132	39659
2017	9	09/11/2017 12:55 PM	09/12/2017 8:00 AM	19 Hours, 5 Minutes	South Carolina Electric and Gas	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	687	154832
2017	9	09/11/2017 5:30 PM	09/13/2017 9:30 AM	40 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	365	265729
2017	10	10/08/2017 3:00 AM	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Florida: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	306	91945
2017	10	10/09/2017 2:03 AM	10/17/2017 1:30 PM	203 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	177	117900
2017	10	10/09/2017 6:44 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	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-Severe Weather	100	Unknown
2017	10	10/12/2017 9:09 AM	. .	. Hours, . Minutes	Clarksdale Public Utilities	SERC	Mississippi: Coahoma County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2017	10	10/16/2017 3:45 PM	10/16/2017 4:09 PM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Montana:	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

Table B.2 Major Disturbances and Unusual Occurrences, 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	10	10/16/2017 3:55 PM	10/16/2017 4:10 PM	0 Hours, 15 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-Transmission Interruption	0	0
2017	10	10/20/2017 3:44 AM	10/20/2017 3:45 AM	0 Hours, 1 Minutes	Peak Reliability	WECC	Washington:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	900	Unknown
2017	10	10/22/2017 8:45 AM	10/22/2017 2:00 PM	5 Hours, 15 Minutes	Entergy Corp	SERC	Louisiana: Mississippi: Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2017	10	10/23/2017 5:50 PM	10/24/2017 6:17 PM	24 Hours, 27 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	440	115144
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 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-Transmission Interruption	0	0
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Whatcom County; Montana:	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
2017	10	10/29/2017 11:40 PM	11/01/2017 6:08 PM	66 Hours, 28 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	310453
2017	11	11/01/2017 3:40 PM	11/01/2017 10:00 PM	6 Hours, 20 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	0	0
2017	11	11/05/2017 7:35 PM	11/05/2017 11:09 PM	3 Hours, 34 Minutes	Ohio Edison Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	89216
2017	11	11/13/2017 2:00 AM	11/15/2017 8:17 AM	54 Hours, 17 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kitsap County, Thurston County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	236100
2017	11	11/13/2017 4:33 PM	11/16/2017 6:00 AM	61 Hours, 27 Minutes	Seattle City Light, Sytem Control Center	WECC	Washington: King County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	85	68430
2017	12	12/04/2017 9:53 PM	. .	. Hours, . Minutes	Southern California Edison Co	WECC	California:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather/Transmission Interruption	540	263000
2017	12	12/05/2017 6:30 AM	12/06/2017 10:00 AM	27 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Oscoda County, Isabella County, Roscommon County, Ogemaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	117500
2017	12	12/07/2017 8:00 PM	12/08/2017 5:00 PM	21 Hours, 0 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	88000
2017	12	12/08/2017 9:30 AM	12/08/2017 10:30 PM	13 Hours, 0 Minutes	Entergy Corp	SERC	Louisiana: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	79000
2017	12	12/08/2017 10:00 AM	12/10/2017 8:50 PM	58 Hours, 50 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	865	301872
2017	12	12/10/2017 1:25 AM	12/10/2017 2:30 AM	1 Hours, 5 Minutes	Southern California Edison Co	WECC	California: Ventura County, Santa Barbara County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	110	51323
2017	12	12/13/2017 9:55 AM	12/13/2017 2:45 PM	4 Hours, 50 Minutes	Long Island Power Authority	NPCC	New York: Suffolk County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	12	12/29/2017 7:00 AM	. .	. Hours, . 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

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Appendix C

Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

Data quality

The EPM is prepared by the Office of Electricity, Renewables & Uranium Statistics (ERUS), Energy Information Administration (EIA), U. S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data 'missing' due to nonresponse, and data 'missing' due to being out-of-sample are treated in the same manner. Therefore missing data may be considered to result in sampling error, and variance estimates reflect all missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approxi-mately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approxi-mately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information may represent only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample21,24. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data22. This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference16," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, "Annual Electric Power Industry Report."

For access to these forms and their instructions, please see:
http://www.eia.gov/cneaf/electricity/page/forms.html.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants,"
- Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"
- Form EIA-759, "Monthly Power Plant Report,"
- Form EIA-860A, "Annual Electric Generator Report–Utility,"
- Form EIA-860B, "Annual Electric Generator Report–Nonutility,"
- Form EIA-900, "Monthly Nonutility Power Report,"
- Form EIA-906, "Power Plant Report," and
- Form EIA-920, "Combined Heat and Power Plant Report."

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues: http://www.eia.gov/electricity/annual.

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

Percent difference: The following formula is used to calculate percent differences:

$$\text{Percent Difference} = \left(\frac{x\ (t_2) - x\ (t_1)}{|\ x\ (t_1)\ |} \right) x\, 100,$$

where $x\ (t_1)$ and $x\ (t_2)$ denote the quantity at year t_1 and subsequent year t_2.

Meanings of symbols appearing in tables: The following symbols have the meaning described below:

P Indicates a preliminary value.

NM Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).

Form EIA-826

The Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," is a monthly collection of data from a sample of approximately 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940's and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, "Electric Utility Company Monthly Statement," replaced the FERC Form 5 in January 1983. In January 1987, the "Electric Utility Company Monthly Statement" was changed to the "Monthly Electric Utility Sales and Revenue Report with State Distributions." The title was changed again in January 2002 to "Monthly Electric Utility Sales and Revenues with State Distributions Report" to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average price of electricity to ultimate consumers at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those energy providers to ultimate consumers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See EPM April 2001, p.1.)

With the October 2004 issue of the EPM, EIA published for the first time preliminary electricity sales data for the Transportation Sector. These data are for electricity delivered to and consumed by local, regional, and metropolitan transportation systems. The data being published for the first time in the October EPM included July 2004 data as well as year-to-date. EIA's efforts to develop these new data have identified anomalies in several States and the District of Columbia. Some of these anomalies are caused by issues such as: 1) Some respondents have classified themselves as outside the realm of the survey. The Form EIA-826 collects data from those respondents providing electricity and other services to the ultimate end users. EIA has experienced specific situations where, although the respondents' customers are the ultimate end users, particular end users qualify under wholesale rate schedules. 2) The Form EIA-826 is a cutoff sample and not intended to be a census.

Beginning with 2008 data and some annual 2007 data, the Form EIA-923 replaced Forms EIA-906, EIA-920, EIA-423, and FERC 423. In addition, several sections of the discontinued Form EIA-767 have been included in either the Form EIA-860 or Form EIA-923. See the following link for a detailed explanation. http://www.eia.gov/cneaf/electricity/2008forms/consolidate.html

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Monthly Form EIA-826 submission is available via an Internet Data Collection (IDC) system. The completed data are due to EIA by the last calendar day of the month following the reporting month. Nonrespondents are contacted to obtain the data. The data are edited and additional checks are completed. Following verification, imputation is run, and tables and text of the aggregated data are produced for inclusion in the EPM.

Imputation: Regression prediction, or imputation, is done for entities not in the monthly sample and for any nonrespondents. Regressor data for Schedule 1, Part A is the average monthly sales or revenue from the most recent finalized data from survey Form EIA-861. Beginning with January 2008 data and the finalized 2007 data, the regressor data for Schedule 1 Parts B and C is the prior month's data.

Formulas and methodologies: The Form EIA 826 data are collected by end-use sector (residential, commercial, industrial, and transportation) and State. Form EIA 861 data are used as the frame from which the sample is selected and in some instances also as regressor data. Updates are made to the frame to reflect mergers that affect data processing.

With the revised definitions for the commercial and industrial sectors to include all data previously reported as 'other' data except transportation, and a separate transportation sector, all responses that would formerly have been reported under the "other" sector are now to be reported under one of the sectors that currently exist. This means there is probably a lower correlation, in general, between, say, commercial Form EIA-826 data for 2004 and commercial Form EIA-861 data for 2003 than there was between commercial Form EIA-826 data for 2003 and commercial Form EIA-861 data for 2002 or earlier years, although commercial and industrial definitions have always been somewhat nebulous due to power companies not having complete information on all customers.

Data submitted for January 2004 represent the first time respondents were to provide data specifically for the transportation end-use sector.

During 2003 transportation data were collected annually through Form EIA-861. Beginning in 2004 the transportation data were collected on a monthly basis via Form EIA-826. In order to develop an estimate of the monthly transportation data for 2003, values for both sales of electricity to ultimate customers and revenue from sales of electricity to ultimate customers were estimated using the 2004 monthly profile for the sales and revenues from the data collected via Form EIA-826. All monthly non-transportation data for 2003 (i.e. street lighting, etc.), which were previously reported in the "other" end-use sector on the Form EIA-826 have been prorated into the Commercial and Industrial end-use sectors based on the 2003 Form EIA-861 profile.

A monthly distribution factor was developed for the monthly data collected in 2004 (for the months of January through November). The transportation sales and revenues for December 2004 were assumed to be equivalent to the transportation sales and revenues for November 2004. The monthly distribution factors for January through November were applied to the annual values for transportation sales and revenues collected via Form EIA-861 to develop corresponding 2003 monthly values. The eleven month estimated totals from January through November 2003 were subtracted from the annual values obtained from Form EIA-861 in order to obtain the December 2003 values.

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates[1].

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average price of electricity to ultimate consumers by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

Adjusting monthly data to annual data: As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA 860, "Annual Electric Generator Report," is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls The Form EIA-860 is made available in January to collect data related to the previous year.

Instrument and design history: The Form EIA-860 was originally implemented in January 1985 to collect data as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Estimation of form eia-860 data: EIA received forms from all 18,151 existing generators in the 2010 Form EIA-860 frame, so no imputation was required.

Prime Movers: The Form EIA-860 sometimes represents a generator's prime mover by using the abbreviations in the table below.

Prime Mover Code	Prime Mover Description
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
PS	Energy Storage, Reversible Hydraulic Turbine (Pumped Storage)
ES	Energy Storage, Other
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT (Prime Mover = HY)	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
Hydroelectric Pumped Storage	WAT (Prime Mover = PS)	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
Wood and Wood-Derived Fuels	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	GEO	Geothermal
Other Energy Sources	PUR	Purchased Steam
	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage
	OTH	Other

Sensitive data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-860M

The Form EIA 860M, "Monthly Update to the Annual Electric Generator Report," is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

Instrument and design history: The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

Sensitive data: Data collected on the Form EIA-860M are not considered to be sensitive.

Form EIA-861

The Form EIA 861, "Annual Electric Power Industry Report," is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

Instrument and design history: The Form EIA 861 was implemented in January 1985 for collection of data as of year end 1984. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

Data processing and data system editing: The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are per-formed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric power industry participant. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric power industry participant operating revenues also include State and Federal income taxes and other taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales, and does not equal the per kWh rate charged by the electric power industry participant to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric power industry participant for providing electrical service.

Sensitive data: Data collected on the Form EIA-861 are not considered to be sensitive.

Form EIA-923

Form EIA-923, "Power Plant Operations Report," is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level. For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and design history:

Receipts and cost and quality of fossil fuels
On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

Generation, consumption, and stocks

The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities14. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data15. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

Data processing and data system editing: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

Imputation: For select survey data elements collected monthly, regression prediction, or imputation, is done for missing data, including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel

consumption, multiple regression is used for imputation (see discussion, above). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental equipment. These ratios are:

Net Generation = (Factor) x Gross Generation
Prime Movers:
Combined Cycle Steam - 0.97
Combined Cycle Single Shaft - 0.97
Combined Cycle Combustion Turbine - 0.97
Compressed Air - 0.97
Fuel Cell - 0.99
Gas Turbine - 0.98
Hydroelectric Turbine - 0.99
Hydroelectric Pumped Storage - 0.99
Internal Combustion Engine - 0.98
Other - 0.97
Photovoltaic - 0.99
Steam Turbine - 0.97
Wind Turbine - 0.99
Environmental Equipment:
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values are used.

Receipts of fossil fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the state, Census division, and U.S. levels.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

Power production, fuel stocks, and fuel consumption data: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

Methodology to estimate biogenic and non-biogenic municipal solid waste[2]: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology:

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the Environmental Protection Agency publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from MSW was attributed to biogenic components and how much to non-biogenic components (see Tables 1 and 2, below). [3]

These values are used to allocate net generation published in the Electric Power Monthly generation tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-

biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	57	56	55	55	56	57	55	54	51	50
Non-biogenic	43	44	45	45	44	43	46	46	49	50

Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	77	77	76	76	75	67	65	65	64	64
Non-biogenic	23	23	24	24	25	34	35	35	36	36

Useful thermal output: With the implementation of the Form EIA-923, "Power Plant Operations Report," in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output collected in 2003 (on Form EIA-906, "Power Plant Report") efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and useful thermal output (UTO), divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is multiplied by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Conversion of petroleum coke to liquid petroleum: The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

Conversion of propane gas to liquid petroleum: The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

Conversion of synthesis gas from coal to coal: The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Conversion of synthesis gas from petroleum coke to petroleum coke: The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Issues within historical data series:

Receipts and cost and quality of fossil fuels
Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities due to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data. In January 2013, this estimation procedure was dropped.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to the FERC Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined-cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Generation and consumption
Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (CHP) plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be decreased while the fuel for UTO is increased as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive data: Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$CapacityFactor = \left(\frac{\sum_{x,m} Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN).

On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership as utilities joined or left various reliability councils impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC

The new NERC Regional Council names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

Agriculture, Forestry, and Fishing

111 Agriculture production-crops
112 Agriculture production, livestock and animal specialties
113 Forestry
114 Fishing, hunting, and trapping
115 Agricultural services

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals
325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

Transportation and Public Utilities

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services
541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of "Third Party Owned" or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.[1] Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

Estimation Model: The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

$$y_{i_{2015,m}} = \beta_1 x_{i_{2013}} + w_i^{-1/2} e_i \text{, where}$$

$x_{i_{2013}}$ is the ith utility's 2013 (or the last published year) solar PV capacity

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

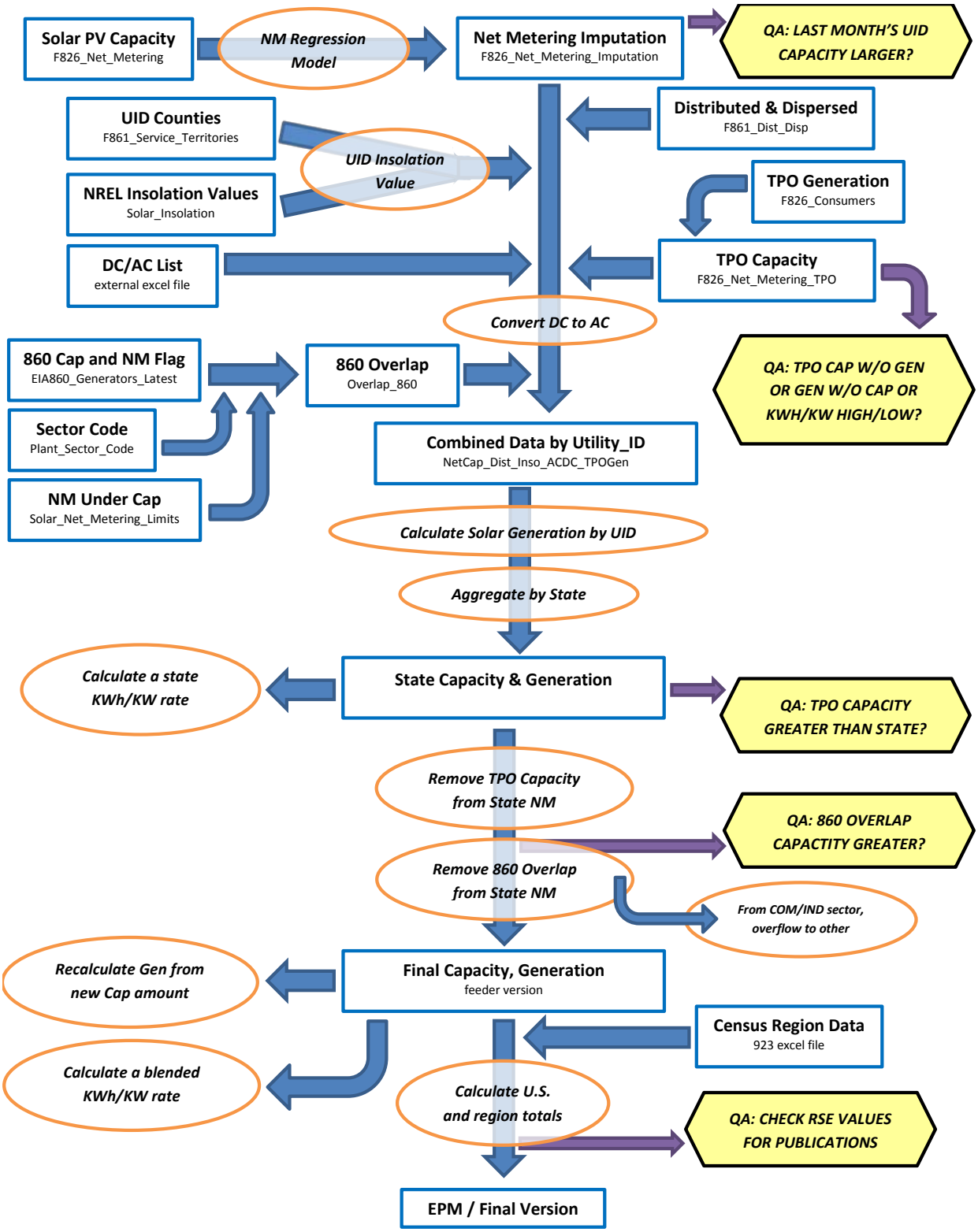
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, March 2018

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.40	5.92	--	1.04
Connecticut	--	5.80	--	1.03
Maine	25.40	6.25	--	1.06
Massachusetts	--	--	--	1.04
New Hampshire	--	5.80	--	1.04
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	22.15	5.77	--	1.03
New Jersey	25.81	5.74	--	1.03
New York	24.47	6.09	--	1.03
Pennsylvania	22.01	5.73	--	1.04
East North Central	20.12	5.79	27.06	1.04
Illinois	17.77	5.78	--	1.00
Indiana	22.25	5.76	--	1.05
Michigan	18.38	5.88	27.11	1.04
Ohio	24.77	5.79	--	1.06
Wisconsin	17.78	5.80	26.22	1.03
West North Central	16.45	5.77	--	1.05
Iowa	17.61	5.78	--	1.06
Kansas	17.09	5.73	--	1.04
Minnesota	17.73	5.77	--	1.06
Missouri	17.74	5.77	--	1.03
Nebraska	16.83	--	--	1.05
North Dakota	13.03	5.77	--	1.00
South Dakota	16.56	--	--	--
South Atlantic	23.54	5.86	27.65	1.03
Delaware	--	5.86	--	1.04
District of Columbia	--	--	--	--
Florida	23.76	5.81	27.65	1.02
Georgia	18.65	5.86	--	1.03
Maryland	24.83	5.80	--	1.06
North Carolina	24.75	6.02	--	1.03
South Carolina	24.82	6.06	--	1.03
Virginia	20.57	5.89	--	1.05
West Virginia	24.98	5.74	--	1.08
East South Central	20.97	5.74	--	1.03
Alabama	20.20	5.64	--	1.03
Kentucky	21.79	5.79	--	1.04
Mississippi	13.89	5.80	--	1.02
Tennessee	23.09	5.76	--	1.01
West South Central	16.46	5.74	28.66	1.03
Arkansas	17.56	5.88	--	1.02
Louisiana	17.52	--	28.66	1.03
Oklahoma	17.20	--	--	1.04
Texas	15.96	5.56	--	1.03
Mountain	18.53	5.77	--	1.05
Arizona	19.26	5.73	--	1.04
Colorado	18.20	--	--	1.10
Idaho	--	--	--	--
Montana	16.71	5.92	--	1.04
Nevada	17.77	--	--	1.04
New Mexico	18.86	5.66	--	1.03
Utah	21.51	5.85	--	1.03
Wyoming	17.47	5.88	--	1.05
Pacific Contiguous	19.34	--	--	1.04
California	22.89	--	--	1.03
Oregon	--	--	--	1.06
Washington	16.77	--	--	1.10
Pacific Noncontiguous	18.43	6.13	--	1.00
Alaska	14.19	--	--	1.00
Hawaii	19.67	6.13	--	--
U.S. Total	19.28	6.01	27.86	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, 2014 through 2016

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2014**	**2015**	**2016**
Net Generation			
Coal	0.25%	0.33%	0.09%
Petroleum Liquids	2.32%	1.00%	3.08%
Petroleum Coke	2.96%	1.60%	1.46%
Natural Gas	0.42%	0.18%	0.30%
Other Gases	4.12%	3.90%	3.76%
Hydroelectric	0.49%	1.08%	0.76%
Nuclear	0.01%	0.01%	0.05%
Other	0.43%	0.80%	0.76%
Total	**0.08%**	**0.23%**	**0.08%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.13%	0.24%	0.11%
Petroleum Liquids	2.17%	2.28%	5.81%
Petroleum Coke	3.19%	1.50%	0.87%
Natural Gas	0.48%	0.32%	2.26%
Fuel Stocks for Electric Power Sector			
Coal	0.38%	0.40%	0.72%
Petroleum Liquids	4.25%	2.92%	3.19%
Petroleum Coke	0.61%	0.04%	0.27%
Retail Sales			
Residential	0.30%	0.30%	0.26%
Commercial	0.38%	0.18%	0.55%
Industrial	4.39%	2.92%	4.31%
Transportation	0.44%	0.37%	0.06%
Total	**1.10%**	**0.93%**	**1.40%**
Revenue			
Residential	0.43%	0.15%	0.28%
Commercial	0.47%	0.62%	1.21%
Industrial	5.66%	3.15%	4.54%
Transportation	1.92%	1.09%	1.53%
Total	**1.01%**	**0.83%**	**1.34%**
Average Retail Price			
Residential	0.12%	0.15%	0.05%
Commercial	0.20%	0.44%	0.65%
Industrial	1.20%	0.31%	0.24%
Transportation	2.18%	0.83%	1.57%
Total	**0.16%**	**0.11%**	**0.10%**
Receipt of Fossil Fuels			
Coal	2.20%	1.70%	1.92%
Petroleum Liquids	0.49%	1.86%	1.16%
Petroleum Coke	2.03%	2.47%	0.01%
Natural Gas	0.26%	0.25%	0.21%
Cost of Fossil Fuels			
Coal	0.18%	0.04%	0.12%
Petroleum Liquids	0.04%	0.25%	0.26%
Petroleum Coke	1.03%	1.42%	0.12%
Natural Gas	0.06%	0.14%	0.12%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-month values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2014 through 2016

	2014			2015			2016		
Item	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%	1,240,108	1,239,149	-0.08%
Petroleum Liquids	18,708	18,276	-2.31%	17,456	17,372	-0.48%	12,675	13,008	2.63%
Petroleum Coke	11,781	11,955	1.48%	10,987	10,877	-1.00%	11,232	11,197	-0.31%
Natural Gas	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%	1,380,295	1,378,307	-0.14%
Other Gases	11,578	12,022	3.83%	12,963	13,117	1.18%	13,000	12,807	-1.48%
Hydroelectric	252,540	253,193	0.26%	246,075	243,989	-0.85%	259,143	261,126	0.77%
Nuclear	797,067	797,166	0.01%	797,178	797,178	0.00%	805,327	805,694	0.05%
Other	293,636	292,674	-0.33%	311,597	309,189	-0.77%	357,299	355,387	-0.54%
Total	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,675**	**-0.06%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	854,416	853,634	-0.09%	740,855	739,594	-0.17%	678,005	677,371	-0.09%
Petroleum Liquids (1,000 barrels)	32,084	31,531	-1.72%	29,545	28,925	-2.10%	21,225	22,405	5.56%
Petroleum Coke (1,000 tons)	4,325	4,412	2.02%	4,088	4,044	-1.07%	4,275	4,253	-0.52%
Natural Gas (1,000 Mcf)	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%	10,400,189	10,170,110	-2.21%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	151,362	151,548	0.12%	197,128	195,548	-0.80%	163,946	162,009	-1.18%
Petroleum Liquids (1,000 barrels)	32,139	33,505	4.25%	32,223	32,884	2.05%	30,880	31,839	3.11%
Petroleum Coke (1,000 tons)	847	827	-2.29%	1,342	1,340	-0.15%	872	845	-3.10%
Retail Sales (Million kWh)									
Residential	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%	1,407,394	1,411,058	0.26%
Commercial	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%	1,359,617	1,367,191	0.56%
Industrial	955,488	997,576	4.40%	958,563	986,508	2.92%	936,269	976,715	4.32%
Transportation	7,776	7,758	-0.24%	7,659	7,637	-0.29%	7,499	7,497	-0.03%
Total	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**	**3,710,779**	**3,762,462**	**1.39%**
Revenue (Million Dollars)									
Residential	175,404	176,178	0.44%	177,367	177,624	0.14%	176,585	177,077	0.28%
Commercial	145,889	145,253	-0.44%	143,893	144,781	0.62%	140,937	142,643	1.21%
Industrial	67,019	70,855	5.72%	66,088	68,166	3.14%	63,201	66,068	4.54%
Transportation	798	810	1.51%	779	771	-1.12%	711	722	1.53%
Total	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**	**381,435**	**386,509**	**1.33%**
Average Retail Price (Cents/kWh)									
Residential	12.50	12.52	0.13%	12.67	12.65	-0.16%	12.55	12.55	0.02%
Commercial	10.75	10.74	-0.04%	10.59	10.64	0.44%	10.37	10.43	0.65%
Industrial	7.01	7.10	1.26%	6.89	6.91	0.22%	6.75	6.76	0.21%
Transportation	10.27	10.45	1.75%	10.17	10.09	-0.83%	9.48	9.63	1.55%
Total	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**	**10.28**	**10.27**	**-0.06%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	836,196	854,560	2.20%	769,866	782,929	1.70%	638,564	650,770	1.91%
Petroleum Liquids (1,000 barrels)	28,355	28,514	0.56%	24,512	24,320	-0.78%	16,610	16,807	1.18%
Petroleum Coke (1,000 tons)	5,091	5,195	2.03%	4,779	4,897	2.46%	4,166	4,166	0.01%
Natural Gas (1,000 Mcf)	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%	10,258,688	10,271,180	0.12%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.37	2.37	0.02%	2.22	2.22	-0.03%	2.12	2.11	-0.15%
Petroleum Liquids (1,000 barrels)	19.89	19.89	-0.03%	11.48	11.49	0.10%	9.36	9.39	0.28%
Petroleum Coke (1,000 tons)	1.96	1.98	0.97%	1.87	1.84	-1.37%	1.65	1.65	0.15%
Natural Gas (1,000 Mcf)	4.99	4.99	0.01%	3.22	3.23	0.18%	2.88	2.87	-0.06%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2016 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';
Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report';
and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000(One Billion Kilowatthours

Source: U.S. Energy Information Administration

Glossary

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Ash: Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Ash content: The amount of ash contained in the fuel (except gas) in terms of percent by weight.

Average Price of Electricity to Ultimate Consumers (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

Barrel: A unit of volume equal to 42 U.S. gallons.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy resource.

Bituminous coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British thermal unit: The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu: The abbreviation for British thermal unit(s).

Capacity: See Generator Capacity and Generator Name Plate Capacity (Installed).

Census Divisions: Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

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

Note: Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal synfuel: Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coke (petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Combined cycle: An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

Combined heat and power (CHP): Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Consumption (fuel): The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Demand (electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Diesel: A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

Distillate fuel oil: *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel:* A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil:* See No. 4 Fuel above.

Electric industry restructuring: The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

Electric plant (physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity generation: The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Electricity generators: The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy conservation features: This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

Energy efficiency: Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

Energy service provider: An energy entity that provides service to an ultimate consumer.

Energy source: Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

Energy-only service: Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

Fossil fuel: An energy source formed in the earths crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.

   - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
   - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.

2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

1) Texas Regional Entity (TRE),
2) Florida Reliability Coordinating Council (FRCC),
3) Midwest Reliability Organization (MRO),
4) Northeast Power Coordinating Council (NPCC),
5) ReliabilityFirst Corporation (RFC),
6) Southeastern Electric Reliability Council (SERC),
7) Southwest Power Pool (SPP), and the
8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

Percent change: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: See Coke (petroleum).

Photovoltaic energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant: A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

Power: The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

Power production plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Production (electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

Propane: A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

Public street and highway lighting service: Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

Railroad and railway electric service: Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

Receipts: Purchases of fuel.

Relative standard error: The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

Residential: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retail: Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

Revenues: The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

Sales: The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

Service classifications (sectors): Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

Service to public authorities: Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Solar energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

State power authority: A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

Steam-electric power plant (conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Stocks of fuel: A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

Subbituminous coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Sulfur: A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Sulfur content: The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

Supplemental gaseous fuel supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic fuel: A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

Ton: A unit of weight equal to 2,000 pounds.

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Ultimate consumer: A consumer that purchases electricity for its own use and not for resale.

Useful thermal output: The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

Waste coal: As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

Waste gases: As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

Waste oil: As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wind energy: The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

Year-to -date: The cumulative sum of each month's value starting with January and ending with the current month of the data.