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Preface

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

Background

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

Data sources

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

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Net Generation and Consumption of Fuels for June														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	101,584	107,728	-5.7%	77,974	81,393	22,978	25,605	21	23	610	706	0	0
Petroleum Liquids	Utility Scale Facilities	1,065	1,006	5.8%	759	719	259	246	8	6	38	35	0	0
Petroleum Coke	Utility Scale Facilities	763	873	-12.6%	670	698	NM	100	0	0	75	75	0	0
Natural Gas	Utility Scale Facilities	130,004	116,061	12.0%	65,507	56,424	56,163	51,504	670	645	7,664	7,489	0	0
Other Gas	Utility Scale Facilities	1,111	1,211	-8.3%	14	12	322	331	0	0	775	867	0	0
Nuclear	Utility Scale Facilities	69,688	67,011	4.0%	36,437	35,022	33,251	31,988	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	27,415	30,424	-9.9%	25,481	28,303	1,795	1,972	NM	NM	114	124	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	38,914	32,548	19.6%	4,139	3,782	32,010	26,068	305	286	2,460	2,412	0	0
... Wind	Utility Scale Facilities	24,411	19,711	23.8%	3,015	2,920	21,371	16,774	13	11	NM	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	7,815	6,252	25.0%	595	382	7,122	5,792	87	71	11	8	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,648	3,625	0.6%	343	282	922	1,005	8	6	2,375	2,330	0	0
... Other Biomass	Utility Scale Facilities	1,706	1,695	0.6%	96	112	1,349	1,318	197	198	64	68	0	0
... Geothermal	Utility Scale Facilities	1,336	1,265	5.6%	90	86	1,246	1,178	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-433	-568	-23.6%	-339	-474	-95	-93	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,110	1,096	1.3%	47	38	588	549	93	90	382	419	0	0
All Energy Sources	Utility Scale Facilities	371,221	357,390	3.9%	210,691	205,918	147,290	138,270	1,121	1,075	12,120	12,127	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,066	2,503	22.5%	0	0	0	0	995	781	267	254	1,803	1,468
Estimated Total Solar Photovoltaic	All Facilities	10,364	8,290	25.0%	590	380	6,610	5,329	1,082	852	278	262	1,803	1,468
Estimated Total Solar	All Facilities	10,880	8,755	24.3%	595	382	7,122	5,792	1,082	852	278	262	1,803	1,468
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	56,087	58,884	-4.8%	42,523	43,796	13,335	14,854	6	7	223	226	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,826	1,739	5.1%	1,349	1,290	418	397	19	14	40	38	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	310	341	-9.1%	269	282	22	40	0	0	19	19	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	971,688	870,696	11.6%	511,615	438,191	411,425	384,666	4,079	3,771	44,571	44,068	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,101	1,208	-8.9%	192	219	94	82	35	39	780	868	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	202	148	36.8%	5	5	15	15	19	15	163	113	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	61	92	-33.5%	1	1	1	9	0	1	58	81	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	97,289	93,506	4.0%	3,557	3,422	28,122	27,809	5,998	6,089	59,612	56,187	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	57,187	60,092	-4.8%	42,715	44,015	13,429	14,937	41	46	1,003	1,094	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,028	1,886	7.5%	1,353	1,295	434	412	39	29	203	151	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	371	433	-14.2%	270	283	24	49	0	1	77	100	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,068,977	964,202	10.9%	515,171	441,612	439,546	412,475	10,077	9,860	104,183	100,255	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	122,174	158,581	-23.0%	101,839	126,382	19,634	31,337	65	103	636	758	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	28,297	32,438	-12.8%	18,577	20,545	8,138	10,004	372	421	1,210	1,467	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,194	1,015	17.6%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for June									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	June 2018	June 2017	Percentage Change	June 2018	June 2017	Percentage Change	June 2018	June 2017	Percentage Change
Residential	129,487	122,034	6.1%	16,863	16,123	4.6%	13.02	13.21	-1.4%
Commercial	121,659	119,289	2.0%	13,159	13,120	0.3%	10.82	11.00	-1.6%
Industrial	81,561	82,224	-0.8%	5,853	5,937	-1.4%	7.18	7.22	-0.6%
Transportation	628	629	-0.1%	64	64	0.1%	10.15	10.14	0.1%
All Sectors	333,335	324,176	2.8%	35,939	35,243	2.0%	10.78	10.87	-0.8%

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

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2018 and 2017

Net Generation and Consumption of Fuels for January through June															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	541,913	573,942	-5.6%	405,666	426,822	132,149	142,930	161	166	3,938	4,024	0	0
Petroleum Liquids	Utility Scale Facilities	9,787	5,932	65.0%	5,718	4,390	3,734	1,276	80	51	256	215	0	0
Petroleum Coke	Utility Scale Facilities	3,995	4,361	-8.4%	3,319	3,431	322	536	4	4	350	390	0	0
Natural Gas	Utility Scale Facilities	655,450	566,211	15.8%	320,042	275,614	287,252	242,864	3,707	3,611	44,448	44,122	0	0
Other Gas	Utility Scale Facilities	6,478	7,118	-9.0%	115	88	1,941	1,962	0	0	4,421	5,068	0	0
Nuclear	Utility Scale Facilities	402,567	386,841	4.1%	210,020	203,997	192,547	182,844	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	162,224	174,536	-7.1%	150,048	161,520	11,319	12,126	143	146	713	745	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	225,787	202,498	11.5%	25,897	24,438	183,569	162,118	1,617	1,596	14,704	14,347	0	0
... Wind	Utility Scale Facilities	152,617	137,215	11.2%	20,148	19,912	132,328	117,189	86	79	55	36	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	33,416	25,874	29.1%	2,747	1,653	30,297	23,919	330	283	42	20	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	21,385	21,091	1.4%	1,811	1,645	5,405	5,611	35	36	14,134	13,799	0	0
... Other Biomass	Utility Scale Facilities	10,353	10,380	-0.3%	678	706	8,036	7,983	1,167	1,198	473	492	0	0
... Geothermal	Utility Scale Facilities	8,017	7,938	1.0%	513	522	7,503	7,416	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,553	-2,894	-11.8%	-2,052	-2,410	-501	-483	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	6,447	6,348	1.6%	242	215	3,356	3,209	509	528	2,341	2,396	0	0
All Energy Sources	Utility Scale Facilities	2,012,094	1,924,894	4.5%	1,119,015	1,098,105	815,688	749,379	6,220	6,103	71,171	71,307	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	14,629	11,767	24.3%	0	0	0	0	4,721	3,752	1,399	1,222	8,510	6,793
Estimated Total Solar Photovoltaic	All Facilities	46,186	35,942	28.5%	2,697	1,651	28,488	22,221	5,051	4,035	1,440	1,242	8,510	6,793
Estimated Total Solar	All Facilities	48,045	37,641	27.6%	2,747	1,653	30,297	23,919	5,051	4,035	1,440	1,242	8,510	6,793
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	298,996	313,915	-4.8%	222,320	230,709	75,184	81,775	46	48	1,446	1,383	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	16,893	10,230	65.1%	10,264	7,741	6,217	2,169	141	89	270	231	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,552	1,704	-8.9%	1,330	1,389	141	219	1	1	81	95	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,814,208	4,165,122	15.6%	2,457,116	2,102,885	2,073,182	1,779,972	22,451	21,504	261,459	260,760	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	7,342	7,739	-5.1%	1,196	1,361	654	695	253	256	5,239	5,427	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,450	923	57.2%	68	35	193	108	255	148	935	632	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	380	458	-17.0%	7	3	43	59	5	7	325	390	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	591,680	566,656	4.4%	20,129	19,831	170,429	166,512	38,729	37,785	362,392	342,529	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	306,338	321,655	-4.8%	223,516	232,070	75,838	82,470	299	304	6,685	6,810	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	18,343	11,152	64.5%	10,333	7,776	6,410	2,277	396	236	1,205	864	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,932	2,162	-10.6%	1,336	1,392	183	278	6	8	406	485	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	5,405,887	4,731,778	14.2%	2,477,245	2,122,716	2,243,612	1,946,484	61,180	59,290	623,851	603,289	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through June									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	Percentage Change
Residential	696,354	646,013	7.8%	89,021	82,611	7.8%	12.78	12.79	-0.1%
Commercial	659,838	647,189	2.0%	69,655	68,190	2.1%	10.56	10.54	0.2%
Industrial	463,033	463,648	-0.1%	31,607	31,393	0.7%	6.83	6.77	0.9%
Transportation	3,838	3,748	2.4%	369	359	2.7%	9.61	9.58	0.3%
All Sectors	1,823,064	1,760,598	3.5%	190,652	182,553	4.4%	10.46	10.37	0.9%

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	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal (1000 tons)	48,533	53,498	39.26	40.71	259	270	281,265	308,606	39.45	40.38
Petroleum Liquids (1000 barrels)	1,346	1,196	90.40	W	148	139	11,762	7,889	82.96	69.16
Petroleum Coke (1000 tons)	260	308	77.61	W	5	8	1,450	1,589	70.96	W
Natural Gas (1000 Mcf)	898,443	737,993	3.21	3.41	562	503	4,520,191	3,619,212	3.62	3.65

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal (1000 tons)	36,117	40,089	40.34	41.60	179	186	207,828	224,519	40.34	41.44
Petroleum Liquids (1000 barrels)	986	915	89.15	66.00	99	92	7,066	6,035	83.08	68.28
Petroleum Coke (1000 tons)	260	298	77.61	60.07	5	7	1,450	1,580	70.96	57.95
Natural Gas (1000 Mcf)	451,014	356,694	3.37	3.69	291	261	2,187,610	1,752,432	3.82	3.87

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal (1000 tons)	11,737	12,689	35.21	37.14	64	64	69,327	79,649	36.01	36.63
Petroleum Liquids (1000 barrels)	344	258	94.38	W	41	35	4,498	1,713	82.92	72.21
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	384,414	328,064	2.96	3.02	223	196	1,965,300	1,548,506	3.43	3.40

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal (1000 tons)	0	1	--	W	0	1	6	15	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)	650	595	W	W	3	3	4,374	3,492	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal (1000 tons)	679	720	51.83	W	16	19	4,104	4,424	W	W
Petroleum Liquids (1000 barrels)	17	23	84.39	W	8	12	198	142	79.93	69.71
Petroleum Coke (1000 tons)	0	9	--	W	0	1	0	9	--	W
Natural Gas (1000 Mcf)	62,365	52,640	W	W	45	43	362,907	314,782	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	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal	931,118	1,032,209	2.05	2.11	259	270	5,389,788	5,938,917	2.06	2.10
Petroleum Liquids	8,103	7,209	15.01	W	148	139	70,917	47,333	13.72	11.53
Petroleum Coke	7,382	8,657	2.73	W	5	8	40,908	44,548	2.52	W
Natural Gas	927,681	762,486	3.11	3.30	562	503	4,667,081	3,739,625	3.51	3.53
Fossil Fuels	1,874,283	1,810,562	2.61	W	725	665	10,168,695	9,770,423	2.77	W

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal	693,365	781,557	2.10	2.13	179	186	3,991,177	4,352,749	2.10	2.14
Petroleum Liquids	5,985	5,560	14.68	10.86	99	92	42,885	36,381	13.68	11.33
Petroleum Coke	7,382	8,386	2.73	2.14	5	7	40,908	44,277	2.52	2.07
Natural Gas	465,417	368,349	3.27	3.57	291	261	2,257,849	1,810,327	3.71	3.74
Fossil Fuels	1,172,148	1,163,853	2.63	2.63	404	372	6,332,819	6,243,734	2.75	2.65

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal	223,656	235,473	1.85	2.00	64	64	1,313,047	1,492,699	1.90	1.95
Petroleum Liquids	2,011	1,507	16.11	W	41	35	26,795	10,069	13.85	12.28
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	397,445	339,166	2.87	2.92	223	196	2,030,988	1,600,653	3.32	3.29
Fossil Fuels	623,112	576,146	2.49	W	271	245	3,370,829	3,103,422	2.78	2.60

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal	0	17	--	W	0	1	130	336	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	670	615	W	W	3	3	4,499	3,601	W	W
Fossil Fuels	670	632	W	W	3	3	4,629	3,936	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	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
Coal	14,097	15,163	2.50	W	16	19	85,435	93,133	W	W
Petroleum Liquids	107	142	13.54	W	8	12	1,238	883	12.80	11.18
Petroleum Coke	0	271	--	W	0	1	0	271	--	W
Natural Gas	64,149	54,356	W	W	45	43	373,745	325,044	W	W
Fossil Fuels	78,352	69,932	W	W	47	45	460,417	419,332	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-June 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	820	593	103,884	1,193	67,033	25,887	5,099	34,096	-490	1,111	319,917	2,414	7,256	7,513
April	73,489	864	582	100,004	976	59,087	27,615	6,111	32,841	-377	1,038	302,229	2,721	8,518	8,833
May	85,403	1,026	424	115,639	1,045	67,320	30,291	7,091	30,131	-390	1,075	339,056	2,999	9,639	10,090
June	101,584	1,065	763	130,004	1,111	69,688	27,415	7,815	31,099	-433	1,110	371,221	3,066	10,364	10,880
Year to Date															
2016	548,178	6,359	5,787	653,187	6,682	400,795	151,745	16,123	154,992	-2,364	6,769	1,948,253	9,159	23,624	25,282
2017	573,942	5,932	4,361	566,211	7,118	386,841	174,536	25,874	176,624	-2,894	6,348	1,924,894	11,767	35,942	37,641
2018	541,913	9,787	3,995	655,450	6,478	402,567	162,224	33,416	192,372	-2,553	6,447	2,012,094	14,629	46,186	48,045
Rolling 12 Months Ending in June															
2017	1,264,913	12,582	9,770	1,291,330	13,243	791,740	290,604	45,805	327,211	-7,216	13,334	4,053,316	21,421	63,800	67,226
2018	1,175,872	16,438	8,142	1,362,103	13,519	820,675	287,732	60,500	350,034	-6,154	13,143	4,102,005	27,001	84,072	87,501

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-June 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	65,082	2,414	7,256	7,513
April	26,757	5,797	314	3,163	889	570	251	1,212	27,615	66,567	2,721	8,518	8,833
May	23,405	6,640	451	3,637	872	574	233	1,409	30,291	67,513	2,999	9,639	10,090
June	24,411	7,298	517	3,648	856	630	220	1,336	27,415	66,329	3,066	10,364	10,880
Year to Date													
2016	116,495	14,465	1,658	19,977	5,595	3,575	1,657	7,693	151,745	322,860	9,159	23,624	25,282
2017	137,215	24,175	1,699	21,091	5,437	3,444	1,499	7,938	174,536	377,034	11,767	35,942	37,641
2018	152,617	31,557	1,859	21,385	5,366	3,523	1,463	8,017	162,224	388,011	14,629	46,186	48,045
Rolling 12 Months Ending in June													
2017	247,713	42,380	3,425	42,061	11,060	7,134	3,173	16,071	290,604	663,620	21,421	63,800	67,226
2018	269,656	57,071	3,429	43,578	10,805	7,043	2,898	16,055	287,732	698,266	27,001	84,072	87,501

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-June 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
April	55,421	632	477	47,442	28	30,534	25,374	520	3,887	-295	37	164,058
May	64,142	742	336	57,381	12	34,479	28,049	547	3,305	-309	42	188,726
June	77,974	759	670	65,507	14	36,437	25,481	595	3,544	-339	47	210,691
Year to Date												
2016	413,092	4,425	4,703	313,967	46	214,268	139,685	926	20,643	-1,888	213	1,110,080
2017	426,822	4,390	3,431	275,614	88	203,997	161,520	1,653	22,785	-2,410	215	1,098,105
2018	405,666	5,718	3,319	320,042	115	210,020	150,048	2,747	23,150	-2,052	242	1,119,015
Rolling 12 Months Ending in June												
2017	936,130	9,034	7,609	616,427	196	414,129	269,621	2,722	42,808	-6,152	424	2,292,948
2018	873,938	10,133	6,600	662,153	NM	430,508	265,332	4,606	42,983	-5,089	499	2,291,855

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.B Net Generation by Energy Source: Independent Power Producers, 2008-June 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
April	17,448	190	39	44,759	306	28,553	2,095	5,525	26,408	-82	534	125,774
May	20,611	239	36	50,272	361	32,841	2,090	6,465	24,080	-81	532	137,446
June	22,978	259	NM	56,163	322	33,251	1,795	7,122	24,888	-95	588	147,290
Year to Date												
2016	130,337	1,639	631	291,299	1,939	186,528	11,226	14,927	118,889	-477	3,436	760,375
2017	142,930	1,276	536	242,864	1,962	182,844	12,126	23,919	138,199	-483	3,209	749,379
2018	132,149	3,734	322	287,252	1,941	192,547	11,319	30,297	153,272	-501	3,356	815,688
Rolling 12 Months Ending in June												
2017	319,855	2,996	1,306	576,164	3,781	377,611	19,438	42,494	252,863	-1,063	6,714	1,602,159
2018	293,617	5,693	NM	602,828	3,992	390,167	20,779	55,192	274,962	-1,064	6,656	1,653,622

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-June 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	9	1	610	0	0	NM	46	222	0	84	1,021	779	825	825
April	21	9	0	591	0	0	NM	58	214	0	82	1,003	863	921	921
May	20	8	0	609	0	0	NM	71	214	0	91	1,039	951	1,022	1,022
June	21	8	0	670	0	0	NM	87	218	0	93	1,121	995	1,082	1,082
Year to Date															
2016	201	36	4	3,605	0	0	100	256	1,336	0	531	6,068	3,068	3,325	3,325
2017	166	51	4	3,611	0	0	146	283	1,313	0	528	6,103	3,752	4,035	4,035
2018	161	80	4	3,707	0	0	143	330	1,287	0	509	6,220	4,721	5,051	5,051
Rolling 12 Months Ending in June															
2017	349	92	6	7,736	0	0	NM	556	2,674	0	1,066	12,741	6,842	7,397	7,397
2018	330	NM	8	7,608	0	0	NM	625	2,615	0	1,075	12,636	8,668	9,294	9,294

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-June 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
April	599	33	65	7,211	642	0	121	8	2,331	0	384	11,394	263	270	270
May	630	37	52	7,378	672	0	126	NM	2,531	0	410	11,845	291	NM	NM
June	610	38	75	7,664	775	0	114	11	2,449	0	382	12,120	267	278	278
Year to Date															
2016	4,548	259	449	44,316	4,697	0	734	13	14,123	0	2,590	71,730	1,007	1,020	1,020
2017	4,024	215	390	44,122	5,068	0	745	20	14,327	0	2,396	71,307	1,222	1,242	1,242
2018	3,938	256	350	44,448	4,421	0	713	42	14,662	0	2,341	71,171	1,399	1,440	1,440
Rolling 12 Months Ending in June															
2017	8,579	459	850	91,004	9,266	0	1,280	NM	28,866	0	5,130	145,468	2,275	NM	NM
2018	7,987	478	735	89,514	9,335	0	1,381	NM	29,473	0	4,913	143,892	2,695	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.
For June 2018 data, improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
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.E. Net Generation by Energy Source: Residential Sector, 2014-June 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
April	1,596
May	1,757
June	1,803
Year to Date	
2016	5,084
2017	6,793
2018	8,510
Rolling 12 Months Ending in June	
2017	12,304
2018	15,638

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, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	8,829	8,862	-0.4%	177	231	8,326	8,301	94	105	232	224
Connecticut	3,333	2,802	18.9%	6	7	3,250	2,721	30	32	48	42
Maine	929	942	-1.4%	0	0	752	766	15	18	162	158
Massachusetts	2,216	2,816	-21.3%	40	47	2,114	2,703	43	45	20	21
New Hampshire	1,613	1,600	0.8%	65	97	1,543	1,496	2	5	2	3
Rhode Island	563	517	9.0%	0	0	558	511	5	5	0	0
Vermont	175	185	-5.7%	66	81	108	105	0	0	0	0
Middle Atlantic	36,149	35,097	3.0%	3,163	3,093	32,449	31,430	195	194	343	381
New Jersey	6,633	6,768	-2.0%	9	22	6,504	6,627	62	60	57	59
New York	11,306	11,132	1.6%	3,140	3,062	7,996	7,895	99	103	72	72
Pennsylvania	18,210	17,198	5.9%	14	10	17,948	16,907	35	31	214	250
East North Central	51,200	49,707	3.0%	21,216	21,726	28,923	26,860	153	162	908	959
Illinois	15,846	15,461	2.5%	536	479	15,050	14,700	30	32	230	250
Indiana	10,141	8,463	19.8%	7,884	7,243	1,847	766	24	25	387	429
Michigan	10,371	10,019	3.5%	7,506	7,293	2,686	2,547	62	67	116	112
Ohio	9,366	9,990	-6.2%	1,062	2,160	8,220	7,752	27	27	58	51
Wisconsin	5,476	5,774	-5.2%	4,228	4,552	1,120	1,095	10	10	118	118
West North Central	30,199	28,961	4.3%	24,563	24,015	5,211	4,532	53	54	372	360
Iowa	5,446	5,230	4.1%	4,244	4,028	996	1,001	18	20	189	180
Kansas	4,653	4,555	2.2%	2,940	3,221	1,710	1,327	NM	NM	NM	7
Minnesota	5,243	4,722	11.1%	4,048	3,675	1,045	907	16	15	134	124
Missouri	7,519	7,365	2.1%	7,005	7,052	495	294	16	16	3	3
Nebraska	3,149	3,048	3.3%	2,744	2,671	374	344	2	1	30	32
North Dakota	3,221	3,043	5.9%	2,757	2,520	451	509	0	0	13	14
South Dakota	966	998	-3.2%	826	847	141	151	NM	NM	0	0
South Atlantic	75,978	73,271	3.7%	62,570	60,991	11,694	10,552	158	109	1,557	1,620
Delaware	445	782	-43.1%	NM	NM	347	645	NM	NM	96	135
District of Columbia	7	6	10.5%	0	0	0	2	7	4	0	0
Florida	22,644	21,860	3.6%	21,058	20,130	1,171	1,289	6	6	409	436
Georgia	12,121	11,831	2.5%	10,092	10,091	1,580	1,333	NM	NM	448	406
Maryland	3,597	2,962	21.4%	371	NM	3,117	2,903	89	40	21	19
North Carolina	12,697	11,913	6.6%	10,937	10,512	1,597	1,224	21	20	142	157
South Carolina	9,207	8,270	11.3%	8,501	7,872	537	226	0	0	170	172
Virginia	8,936	8,768	1.9%	6,804	6,859	1,890	1,671	34	38	208	200
West Virginia	6,324	6,878	-8.1%	4,805	5,525	1,455	1,259	0	0	64	94
East South Central	32,634	31,235	4.5%	27,680	26,960	4,171	3,508	16	17	767	750
Alabama	13,179	12,126	8.7%	9,501	8,784	3,303	2,988	0	0	376	353
Kentucky	7,237	6,668	8.5%	7,173	6,600	16	19	0	0	48	50
Mississippi	5,154	5,627	-8.4%	4,180	4,984	816	473	0	0	158	170
Tennessee	7,064	6,814	3.7%	6,827	6,592	36	28	16	17	185	177
West South Central	69,603	62,672	11.1%	25,061	20,899	38,099	35,475	95	85	6,348	6,213
Arkansas	6,335	5,146	23.1%	5,596	3,483	600	1,523	1	1	139	140
Louisiana	9,379	8,888	5.5%	5,883	5,525	1,053	815	15	15	2,428	2,533
Oklahoma	8,922	7,010	27.3%	4,391	3,636	4,456	3,329	0	0	75	44
Texas	44,967	41,627	8.0%	9,192	8,255	31,990	29,808	79	69	3,706	3,495
Mountain	31,998	32,263	-0.8%	24,395	25,249	7,318	6,712	53	50	232	253
Arizona	10,181	10,374	-1.9%	8,315	8,378	1,850	1,980	16	15	0	0
Colorado	4,952	4,798	3.2%	3,691	3,801	1,249	986	5	5	6	6
Idaho	1,538	1,552	-0.9%	1,028	1,046	463	460	4	4	43	42
Montana	2,096	2,060	1.7%	1,123	1,187	971	872	0	0	2	2
Nevada	3,821	3,649	4.7%	2,658	2,632	1,119	978	15	11	29	27
New Mexico	2,848	2,967	-4.0%	1,815	2,163	1,024	794	9	10	1	0
Utah	3,037	3,072	-1.2%	2,589	2,596	398	389	4	4	47	83
Wyoming	3,526	3,792	-7.0%	3,177	3,445	244	254	0	0	105	93
Pacific Contiguous	33,280	34,032	-2.2%	21,003	21,931	10,716	10,524	234	243	1,327	1,334
California	17,197	18,248	-5.8%	6,818	7,746	8,990	9,103	225	237	1,164	1,163
Oregon	4,996	5,091	-1.9%	3,929	4,194	1,012	842	6	5	50	50
Washington	11,087	10,693	3.7%	10,257	9,992	714	579	3	2	114	121
Pacific Noncontiguous	1,350	1,291	4.6%	863	824	384	375	70	57	33	35
Alaska	506	473	7.0%	445	409	20	22	32	33	9	10
Hawaii	845	818	3.2%	418	416	364	354	39	24	24	25
U.S. Total	371,221	357,390	3.9%	210,691	205,918	147,290	138,270	1,121	1,075	12,120	12,127

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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 June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	49,918	48,854	2.2%	1,593	1,184	46,330	45,665	583	588	1,413	1,417
Connecticut	18,709	16,296	14.8%	44	43	18,232	15,836	175	171	257	246
Maine	5,780	5,578	3.6%	0	0	4,691	4,454	86	101	1,003	1,023
Massachusetts	12,958	15,636	-17.1%	263	199	12,296	15,051	262	254	137	132
New Hampshire	8,585	7,991	7.4%	814	468	7,723	7,474	32	33	16	16
Rhode Island	2,766	2,284	21.1%	0	3	2,739	2,253	27	27	0	0
Vermont	1,121	1,070	4.8%	471	472	648	596	2	2	0	0
Middle Atlantic	202,408	191,829	5.5%	17,651	16,740	181,503	171,781	1,108	1,078	2,146	2,230
New Jersey	36,762	36,268	1.4%	63	69	36,022	35,507	344	331	332	361
New York	63,063	60,399	4.4%	17,512	16,603	44,529	42,783	563	555	459	458
Pennsylvania	102,583	95,163	7.8%	76	68	100,953	93,491	200	192	1,355	1,411
East North Central	295,694	278,655	6.1%	118,983	117,904	170,349	154,282	904	887	5,458	5,581
Illinois	91,732	87,899	4.4%	2,615	2,619	87,512	83,694	188	174	1,417	1,413
Indiana	54,702	47,145	16.0%	42,094	39,946	10,308	4,702	131	124	2,170	2,374
Michigan	57,804	55,727	3.7%	39,007	40,827	17,675	13,851	408	394	715	655
Ohio	59,362	58,244	1.9%	10,546	11,590	48,350	46,175	121	129	345	350
Wisconsin	32,093	29,638	8.3%	24,723	22,923	6,502	5,861	57	65	811	790
West North Central	175,541	165,530	6.0%	140,090	133,151	32,943	30,053	313	303	2,196	2,024
Iowa	31,199	27,974	11.5%	23,216	20,299	6,817	6,634	117	106	1,049	935
Kansas	25,520	24,618	3.7%	15,813	15,647	9,660	8,943	NM	NM	39	21
Minnesota	31,709	27,993	13.3%	24,173	21,323	6,634	5,773	96	94	805	803
Missouri	41,944	42,139	-0.5%	39,122	40,445	2,715	1,582	82	86	25	26
Nebraska	18,289	17,221	6.2%	15,413	14,333	2,677	2,708	9	11	190	169
North Dakota	20,917	19,825	5.5%	17,457	16,532	3,372	3,224	0	0	88	69
South Dakota	5,965	5,760	3.6%	4,896	4,571	1,068	1,188	NM	NM	0	0
South Atlantic	395,480	382,765	3.3%	322,492	319,364	62,873	53,152	714	619	9,400	9,629
Delaware	3,052	3,716	-17.9%	11	5	2,600	2,999	4	4	437	708
District of Columbia	43	39	12.4%	0	0	20	23	23	15	0	0
Florida	114,751	113,478	1.1%	106,215	104,299	5,909	6,506	37	39	2,590	2,634
Georgia	61,971	61,172	1.3%	51,625	51,911	7,690	6,743	6	NM	2,651	2,516
Maryland	21,567	15,652	37.8%	1,656	5	19,424	15,274	343	238	143	134
North Carolina	65,799	62,217	5.8%	57,527	55,251	7,184	5,946	102	101	986	920
South Carolina	47,968	45,449	5.5%	45,020	43,116	1,951	1,318	1	1	995	1,014
Virginia	47,089	45,303	3.9%	36,025	36,900	9,687	7,012	198	218	1,180	1,173
West Virginia	33,240	35,739	-7.0%	24,413	27,877	8,409	7,331	0	0	418	530
East South Central	176,929	167,630	5.5%	150,277	144,546	22,136	18,579	102	94	4,414	4,411
Alabama	69,600	66,614	4.5%	50,011	49,462	17,443	15,030	0	0	2,146	2,121
Kentucky	36,824	35,675	3.2%	36,203	35,246	342	135	0	0	278	294
Mississippi	30,979	29,160	6.2%	25,862	24,921	4,183	3,286	6	3	928	950
Tennessee	39,527	36,182	9.2%	38,200	34,917	168	128	96	91	1,063	1,045
West South Central	351,517	321,691	9.3%	113,324	100,164	201,192	184,327	399	435	36,603	36,765
Arkansas	32,431	27,467	18.1%	23,628	20,163	7,912	6,461	3	3	888	840
Louisiana	48,141	46,132	4.4%	28,903	25,817	4,711	5,299	76	74	14,450	14,942
Oklahoma	43,738	36,071	21.3%	19,500	17,800	23,784	17,905	0	0	454	365
Texas	227,207	212,021	7.2%	41,292	36,384	164,785	154,663	320	357	20,810	20,618
Mountain	169,456	168,803	0.4%	129,149	131,629	38,486	35,410	286	278	1,534	1,486
Arizona	49,673	47,555	4.5%	43,697	41,573	5,892	5,903	84	79	0	0
Colorado	26,854	26,618	0.9%	19,775	20,038	7,023	6,525	18	18	38	37
Idaho	8,749	8,684	0.7%	5,677	5,791	2,749	2,587	24	26	298	280
Montana	14,393	13,908	3.5%	6,687	6,670	7,694	7,224	0	0	13	15
Nevada	17,897	17,242	3.8%	11,998	11,872	5,685	5,191	68	60	145	119
New Mexico	14,086	16,482	-14.5%	8,139	12,054	5,892	4,372	52	55	4	1
Utah	16,294	16,412	-0.7%	14,048	14,064	1,912	1,965	40	41	294	343
Wyoming	21,510	21,902	-1.8%	19,129	19,567	1,639	1,643	0	0	742	692
Pacific Contiguous	187,232	191,446	-2.2%	120,144	128,321	57,852	54,110	1,425	1,455	7,811	7,560
California	89,402	98,201	-9.0%	35,352	45,860	45,950	44,387	1,365	1,400	6,735	6,552
Oregon	32,609	30,697	6.2%	25,326	24,982	6,935	5,386	39	36	309	293
Washington	65,221	62,548	4.3%	59,466	57,478	4,967	4,337	20	19	767	714
Pacific Noncontiguous	7,918	7,690	3.0%	5,313	5,100	2,024	2,019	386	366	195	204
Alaska	3,135	2,860	9.6%	2,756	2,497	130	117	197	188	52	58
Hawaii	4,783	4,830	-1.0%	2,557	2,603	1,894	1,902	188	179	143	146
U.S. Total	2,012,094	1,924,894	4.5%	1,119,015	1,098,105	815,688	749,379	6,220	6,103	71,171	71,307

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	17	44	-60.1%	14	34	2	8	0	0	NM	NM
Connecticut	0	7	-100.0%	0	0	0	7	0	0	0	0
Maine	NM	NM	NM	0	0	2	2	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	14	34	-59.8%	14	34	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	3,813	4,336	-12.1%	0	0	3,794	4,299	0	0	19	37
New Jersey	92	100	-8.2%	0	0	92	100	0	0	0	0
New York	13	66	-80.6%	0	0	13	53	0	0	0	12
Pennsylvania	3,708	4,170	-11.1%	0	0	3,689	4,146	0	0	19	24
East North Central	22,945	24,160	-5.0%	14,099	14,881	8,672	9,091	6	4	168	184
Illinois	5,261	5,003	5.2%	363	343	4,761	4,511	NM	NM	135	148
Indiana	6,859	6,204	10.6%	6,634	5,949	222	253	4	2	0	0
Michigan	4,027	3,874	4.0%	3,982	3,832	39	39	0	0	5	NM
Ohio	4,197	5,812	-27.8%	547	1,522	3,650	4,289	0	0	NM	NM
Wisconsin	2,599	3,266	-20.4%	2,572	3,235	0	0	0	0	27	32
West North Central	15,836	16,385	-3.3%	15,600	16,141	0	0	4	8	232	236
Iowa	2,524	2,821	-10.5%	2,375	2,653	0	0	4	8	145	160
Kansas	1,410	1,916	-26.4%	1,410	1,916	0	0	0	0	0	0
Minnesota	1,858	1,799	3.3%	1,810	1,763	0	0	0	0	49	36
Missouri	5,580	5,879	-5.1%	5,580	5,878	0	0	0	0	0	0
Nebraska	2,063	1,882	9.6%	2,033	1,850	0	0	0	0	30	32
North Dakota	2,170	1,904	14.0%	2,162	1,895	0	0	0	0	NM	9
South Dakota	230	185	24.6%	230	185	0	0	0	0	0	0
South Atlantic	19,286	20,297	-5.0%	17,112	18,443	2,117	1,794	2	2	54	57
Delaware	39	13	201.8%	0	0	39	13	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,866	3,604	-20.5%	2,855	3,591	0	0	0	0	12	13
Georgia	3,256	3,274	-0.5%	3,243	3,260	0	0	0	0	NM	14
Maryland	841	740	13.6%	0	0	837	736	0	0	4	4
North Carolina	3,732	3,431	8.8%	3,712	3,409	8	9	2	2	10	12
South Carolina	1,964	1,722	14.0%	1,963	1,721	0	0	0	0	1	1
Virginia	666	1,080	-38.3%	624	1,031	27	36	0	0	15	13
West Virginia	5,921	6,432	-7.9%	4,715	5,432	1,206	1,001	0	0	0	0
East South Central	11,764	11,449	2.8%	11,415	11,208	290	178	0	0	59	63
Alabama	3,273	2,892	13.1%	3,268	2,888	0	0	0	0	NM	4
Kentucky	5,672	5,245	8.2%	5,672	5,245	0	0	0	0	0	0
Mississippi	644	417	54.5%	354	239	290	178	0	0	0	0
Tennessee	2,176	2,895	-24.8%	2,121	2,836	0	0	0	0	54	59
West South Central	15,999	17,928	-10.8%	9,035	8,625	6,941	9,276	0	0	23	27
Arkansas	2,883	2,272	26.9%	2,427	1,886	453	383	0	0	3	4
Louisiana	1,343	1,357	-1.0%	845	941	498	415	0	0	0	0
Oklahoma	1,309	1,562	-16.2%	1,143	1,391	146	148	0	0	20	23
Texas	10,465	12,737	-17.8%	4,620	4,407	5,845	8,329	0	0	0	0
Mountain	11,630	12,956	-10.2%	10,647	12,053	955	829	0	0	28	73
Arizona	2,529	2,607	-3.0%	2,529	2,607	0	0	0	0	0	0
Colorado	2,127	2,632	-19.2%	2,127	2,631	0	0	0	0	1	1
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	798	667	19.6%	21	26	777	641	0	0	0	0
Nevada	252	193	30.6%	172	104	80	88	0	0	0	0
New Mexico	1,004	1,492	-32.7%	1,004	1,492	0	0	0	0	0	0
Utah	1,925	2,105	-8.6%	1,887	2,029	38	37	0	0	0	39
Wyoming	2,993	3,257	-8.1%	2,907	3,163	61	62	0	0	25	32
Pacific Contiguous	140	28	401.8%	30	0	84	0	0	0	26	28
California	24	27	-9.6%	0	0	0	0	0	0	24	27
Oregon	30	0	--	30	0	0	0	0	0	0	0
Washington	86	1	NM	0	0	84	0	0	0	2	1
Pacific Noncontiguous	153	147	4.5%	NM	NM	122	130	9	9	0	0
Alaska	NM	NM	NM	NM	NM	16	17	9	9	0	0
Hawaii	106	113	-5.7%	0	0	106	113	0	0	0	0
U.S. Total	101,584	107,728	-5.7%	77,974	81,393	22,978	25,605	21	23	610	706

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	729	1,402	-48.0%	461	140	259	1,252	0	0	NM	NM
Connecticut	228	85	168.0%	0	0	228	85	0	0	0	0
Maine	40	40	0.2%	0	0	31	30	0	0	NM	NM
Massachusetts	0	1,136	-100.0%	0	0	0	1,136	0	0	0	0
New Hampshire	461	140	228.7%	461	140	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	23,582	24,606	-4.2%	0	0	23,438	24,318	0	0	144	288
New Jersey	620	594	4.4%	0	0	620	594	0	0	0	0
New York	398	463	-14.0%	0	0	387	321	0	0	11	142
Pennsylvania	22,564	23,549	-4.2%	0	0	22,431	23,403	0	0	133	146
East North Central	131,810	135,521	-2.7%	79,888	81,122	50,725	53,257	37	26	1,160	1,115
Illinois	29,307	27,715	5.7%	1,918	2,073	26,493	24,758	17	17	878	867
Indiana	37,691	34,058	10.7%	35,900	32,931	1,771	1,118	20	9	0	0
Michigan	20,322	21,762	-6.6%	20,045	21,505	227	233	0	0	50	24
Ohio	28,771	35,398	-18.7%	6,532	8,244	22,233	27,148	0	0	6	NM
Wisconsin	15,719	16,587	-5.2%	15,493	16,369	0	0	0	0	226	218
West North Central	89,298	87,537	2.0%	87,901	86,196	0	1	42	60	1,355	1,282
Iowa	12,743	12,115	5.2%	11,902	11,304	0	0	36	43	805	768
Kansas	9,031	8,451	6.9%	9,031	8,451	0	0	0	0	0	0
Minnesota	10,930	10,498	4.1%	10,624	10,199	0	0	1	1	306	299
Missouri	30,793	33,270	-7.4%	30,788	33,254	0	1	5	15	0	0
Nebraska	10,956	9,747	12.4%	10,766	9,579	0	0	0	0	190	169
North Dakota	13,527	12,458	8.6%	13,473	12,411	0	0	0	0	54	46
South Dakota	1,318	999	31.9%	1,318	999	0	0	0	0	0	0
South Atlantic	95,744	102,164	-6.3%	81,839	92,153	13,507	9,600	23	30	375	381
Delaware	127	87	46.5%	0	0	127	87	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14,018	19,218	-27.1%	13,954	19,148	7	0	0	0	58	70
Georgia	14,000	15,482	-9.6%	13,911	15,405	0	0	0	0	90	78
Maryland	6,146	3,241	89.7%	0	0	6,108	3,206	0	0	38	35
North Carolina	16,794	15,892	5.7%	16,651	15,724	47	53	18	21	77	94
South Carolina	9,074	9,213	-1.5%	9,063	9,202	0	0	0	0	11	11
Virginia	4,882	5,661	-13.8%	4,454	5,351	322	208	5	8	101	94
West Virginia	30,701	33,370	-8.0%	23,807	27,323	6,895	6,047	0	0	0	0
East South Central	57,063	58,844	-3.0%	55,284	57,169	1,400	1,296	0	0	380	378
Alabama	16,439	15,138	8.6%	16,408	15,116	0	0	0	0	31	22
Kentucky	27,212	28,718	-5.2%	27,212	28,718	0	0	0	0	0	0
Mississippi	2,421	2,348	3.1%	1,020	1,052	1,400	1,296	0	0	0	0
Tennessee	10,992	12,639	-13.0%	10,643	12,283	0	0	0	0	349	357
West South Central	75,439	87,550	-13.8%	41,158	42,375	34,136	44,999	0	0	145	176
Arkansas	12,820	11,603	10.5%	10,391	10,544	2,405	1,035	0	0	24	23
Louisiana	5,166	6,121	-15.6%	3,231	3,569	1,935	2,552	0	0	0	0
Oklahoma	7,043	7,790	-9.6%	6,220	6,947	702	690	0	0	121	153
Texas	50,410	62,036	-18.7%	21,316	21,315	29,094	40,721	0	0	0	0
Mountain	66,326	73,913	-10.3%	58,969	66,995	7,144	6,676	0	0	213	242
Arizona	14,009	14,121	-0.8%	14,009	14,121	0	0	0	0	0	0
Colorado	11,902	14,287	-16.7%	11,895	14,282	0	0	0	0	7	5
Idaho	14	NM	NM	0	0	0	0	0	0	14	NM
Montana	6,283	5,804	8.2%	92	142	6,189	5,660	0	0	2	2
Nevada	611	816	-25.1%	201	345	410	471	0	0	0	0
New Mexico	4,846	9,194	-47.3%	4,846	9,194	0	0	0	0	0	0
Utah	10,772	11,388	-5.4%	10,567	11,140	205	196	0	0	0	51
Wyoming	17,889	18,289	-2.2%	17,359	17,770	340	349	0	0	190	170
Pacific Contiguous	988	1,516	-34.8%	30	554	802	810	0	0	157	152
California	145	139	4.5%	0	0	0	0	0	0	145	139
Oregon	30	554	-94.6%	30	554	0	0	0	0	0	0
Washington	813	823	-1.2%	0	0	802	810	0	0	12	13
Pacific Noncontiguous	933	890	4.8%	137	118	738	721	58	51	0	0
Alaska	294	255	15.3%	137	118	99	85	58	51	0	0
Hawaii	639	635	0.6%	0	0	639	635	0	0	0	0
U.S. Total	541,913	573,942	-5.6%	405,666	426,822	132,149	142,930	161	166	3,938	4,024

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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	46	21	116.3%	2	4	41	14	2	2	NM	1
Connecticut	39	7	453.4%	NM	NM	38	7	NM	NM	0	0
Maine	NM	2	NM	0	0	NM	NM	0	0	NM	1
Massachusetts	4	9	-60.8%	NM	2	NM	7	NM	NM	0	0
New Hampshire	2	2	-38.0%	1	2	NM	NM	1	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	51	56	-8.6%	14	15	34	37	NM	NM	2	3
New Jersey	5	4	39.8%	NM	NM	5	4	0	0	0	0
New York	23	32	-28.1%	14	15	7	15	NM	NM	1	2
Pennsylvania	22	20	14.4%	0	0	21	18	0	0	NM	NM
East North Central	42	48	-12.5%	23	32	16	15	1	0	2	1
Illinois	4	3	19.3%	NM	1	3	3	NM	NM	0	0
Indiana	11	13	-11.7%	10	12	0	0	0	0	2	1
Michigan	8	10	-13.5%	8	9	0	0	0	0	NM	NM
Ohio	15	19	-24.2%	NM	7	13	12	0	0	0	0
Wisconsin	4	3	28.5%	4	3	0	0	0	0	NM	NM
West North Central	49	34	45.1%	48	33	NM	NM	0	0	0	0
Iowa	20	19	6.1%	20	18	0	NM	0	0	0	0
Kansas	6	3	125.0%	6	3	0	0	0	0	0	0
Minnesota	5	5	0.1%	5	5	NM	NM	0	0	0	0
Missouri	14	3	420.7%	14	3	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	2	3	-28.9%	2	3	0	0	0	0	0	0
South Dakota	1	NM	NM	1	NM	0	0	NM	NM	0	0
South Atlantic	213	160	32.6%	185	134	13	17	5	3	NM	7
Delaware	2	NM	NM	0	0	2	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	47	45	3.8%	44	43	0	0	0	0	NM	NM
Georgia	9	8	12.9%	5	6	NM	NM	0	0	NM	NM
Maryland	6	7	-15.4%	0	NM	6	7	0	0	0	0
North Carolina	19	14	36.2%	16	13	NM	NM	0	0	3	NM
South Carolina	5	7	-30.6%	4	6	0	0	0	0	0	1
Virginia	107	65	64.6%	99	56	4	6	4	3	NM	NM
West Virginia	17	11	57.6%	17	11	0	0	0	0	0	0
East South Central	23	24	-3.7%	20	22	NM	NM	0	0	NM	NM
Alabama	5	NM	NM	3	1	NM	NM	0	0	NM	NM
Kentucky	6	7	-8.2%	6	7	0	0	0	0	0	0
Mississippi	2	1	119.4%	2	1	0	0	0	0	0	0
Tennessee	9	13	-30.9%	9	13	0	0	0	0	0	0
West South Central	10	14	-27.9%	7	10	2	4	0	0	1	0
Arkansas	2	6	-63.5%	2	3	0	3	0	0	0	0
Louisiana	1	NM	NM	1	NM	0	0	0	0	0	0
Oklahoma	1	3	-57.7%	1	3	0	0	0	0	0	0
Texas	5	5	8.8%	3	3	2	2	0	0	1	0
Mountain	19	19	-2.0%	17	17	2	2	0	0	0	0
Arizona	4	6	-37.8%	4	6	0	0	0	0	0	0
Colorado	1	0	222.7%	1	0	0	0	0	0	0	0
Idaho	0	0	NM	0	0	0	0	0	0	0	0
Montana	2	2	24.5%	NM	NM	2	2	0	0	0	0
Nevada	1	2	-54.3%	1	2	0	0	0	0	0	0
New Mexico	1	3	-56.3%	1	3	0	0	0	0	0	0
Utah	2	2	19.1%	2	2	0	0	0	0	0	0
Wyoming	7	4	77.9%	7	4	0	0	0	0	0	0
Pacific Contiguous	7	4	68.5%	4	3	2	1	0	0	2	NM
California	5	3	40.5%	3	3	1	1	0	0	0	NM
Oregon	1	0	--	1	0	0	0	0	0	0	0
Washington	2	NM	NM	NM	NM	0	NM	0	0	2	NM
Pacific Noncontiguous	606	626	-3.2%	439	450	149	156	0	0	19	20
Alaska	48	61	-21.6%	44	57	0	0	NM	NM	3	4
Hawaii	559	565	-1.2%	394	393	149	156	0	0	15	16
U.S. Total	1,065	1,006	5.8%	759	719	259	246	8	6	38	35

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	1,015	156	550.3%	146	23	828	104	NM	24	NM	5
Connecticut	246	21	NM	NM	3	239	17	NM	1	1	0
Maine	163	19	753.2%	0	0	152	14	1	1	NM	4
Massachusetts	396	87	352.6%	53	4	327	70	NM	12	1	1
New Hampshire	155	19	723.2%	86	11	59	NM	10	8	0	0
Rhode Island	NM	8	NM	0	3	NM	NM	1	2	0	0
Vermont	NM	2	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	2,110	317	565.3%	637	94	1,431	192	NM	6	NM	25
New Jersey	240	25	863.3%	1	NM	233	25	5	0	1	0
New York	1,442	186	674.1%	634	94	780	66	NM	NM	NM	23
Pennsylvania	428	106	303.7%	2	0	418	102	3	2	NM	2
East North Central	324	249	30.2%	174	154	133	85	NM	2	13	8
Illinois	32	29	10.5%	NM	4	25	24	NM	NM	0	0
Indiana	66	61	7.3%	55	56	0	0	0	0	10	5
Michigan	63	46	38.8%	60	43	0	0	2	1	1	1
Ohio	147	97	51.6%	38	35	107	61	0	0	2	1
Wisconsin	16	16	-0.5%	15	16	1	0	NM	0	NM	NM
West North Central	266	238	11.6%	252	235	NM	NM	1	1	1	1
Iowa	128	131	-2.3%	127	130	NM	0	0	0	0	0
Kansas	NM	30	NM	NM	30	0	0	0	0	0	0
Minnesota	NM	20	NM	16	17	NM	NM	1	1	0	1
Missouri	54	28	90.1%	54	28	0	0	0	0	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	17	24	-28.7%	17	24	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	NM	0	0
South Atlantic	2,144	872	145.7%	1,438	699	628	128	25	13	53	32
Delaware	137	16	752.6%	6	0	131	16	0	0	0	0
District of Columbia	NM	0	–	0	0	0	0	NM	0	0	0
Florida	323	302	6.9%	295	291	NM	1	0	0	NM	9
Georgia	NM	53	NM	NM	33	NM	NM	3	1	17	10
Maryland	230	46	396.9%	3	1	224	44	1	0	2	1
North Carolina	366	113	223.0%	337	102	NM	7	0	0	NM	4
South Carolina	205	46	346.6%	NM	40	38	1	0	0	6	5
Virginia	655	232	182.4%	504	168	128	50	21	12	NM	2
West Virginia	95	65	47.2%	85	64	10	0	0	0	0	0
East South Central	159	127	24.3%	120	117	25	2	0	0	14	8
Alabama	51	21	137.6%	NM	13	25	2	0	0	NM	NM
Kentucky	44	51	-14.4%	44	51	0	0	0	0	0	0
Mississippi	NM	5	NM	NM	4	0	0	0	0	3	1
Tennessee	53	50	6.2%	52	49	0	0	0	0	1	1
West South Central	NM	78	NM	NM	38	NM	38	0	0	5	2
Arkansas	NM	28	NM	NM	10	3	18	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	8	8	5.2%	8	7	0	0	0	0	1	0
Texas	NM	39	NM	NM	18	NM	21	0	0	2	0
Mountain	92	119	-22.4%	84	108	8	11	0	0	0	0
Arizona	28	30	-4.9%	28	30	0	0	0	0	0	0
Colorado	6	4	57.3%	6	4	0	0	0	0	0	0
Idaho	0	0	-13.8%	0	0	0	0	0	0	0	0
Montana	7	8	-19.2%	NM	NM	7	8	0	0	0	0
Nevada	3	4	-10.9%	2	2	1	2	0	0	0	0
New Mexico	9	24	-63.6%	9	24	0	0	0	0	0	0
Utah	19	23	-15.8%	19	22	1	1	0	0	0	0
Wyoming	21	27	-24.5%	21	27	0	0	0	0	0	0
Pacific Contiguous	36	38	-5.5%	17	20	4	6	0	0	15	11
California	29	25	17.1%	16	16	2	2	0	0	10	6
Oregon	1	3	-79.9%	1	3	0	0	0	0	0	0
Washington	6	10	-38.1%	NM	2	2	4	0	0	5	4
Pacific Noncontiguous	3,555	3,737	-4.9%	2,784	2,901	649	708	4	5	118	123
Alaska	392	462	-15.3%	366	435	0	0	3	3	22	24
Hawaii	3,163	3,274	-3.4%	2,417	2,466	649	708	1	1	96	100
U.S. Total	9,787	5,932	65.0%	5,718	4,390	3,734	1,276	80	51	256	215

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	13	NM	0	0	0	0	0	0	NM	13
New Jersey	6	5	20.0%	0	0	0	0	0	0	6	5
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	138	178	-22.7%	110	96	NM	65	0	0	14	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	112	103	8.2%	100	87	0	0	0	0	12	17
Ohio	NM	65	NM	0	0	NM	65	0	0	2	0
Wisconsin	10	10	3.8%	10	10	0	0	0	0	0	0
West North Central	0	7	-93.5%	0	0	0	0	0	0	0	7
Iowa	0	7	-93.5%	0	0	0	0	0	0	0	7
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	181	144	25.7%	160	130	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	160	130	22.9%	160	130	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	81	-100.0%	0	81	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	81	-100.0%	0	81	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	427	415	2.9%	400	391	0	0	0	0	27	24
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	418	406	2.9%	400	391	0	0	0	0	18	16
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	8	4.9%	0	0	0	0	0	0	9	8
Mountain	4	35	-88.2%	0	0	4	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	4	35	-88.2%	0	0	4	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	763	873	-12.6%	670	698	NM	100	0	0	75	75

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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 June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	58	75	-23.2%	0	0	0	0	0	0	58	75
New Jersey	22	36	-38.6%	0	0	0	0	0	0	22	36
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	38	NM	0	0	0	0	0	0	NM	38
East North Central	748	839	-10.8%	572	451	138	326	0	0	38	61
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	559	485	15.1%	526	424	0	0	0	0	33	61
Ohio	143	326	-56.2%	0	0	138	326	0	0	5	0
Wisconsin	47	27	70.1%	47	27	0	0	0	0	0	0
West North Central	40	26	51.9%	0	0	0	0	4	4	36	23
Iowa	40	26	51.9%	0	0	0	0	4	4	36	23
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	807	462	74.9%	709	390	0	0	0	0	98	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	709	390	81.8%	709	390	0	0	0	0	0	0
Georgia	98	NM	NM	0	0	0	0	0	0	98	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	396	-100.0%	0	396	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	396	-100.0%	0	396	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	2,158	2,353	-8.3%	2,037	2,193	0	0	0	0	121	160
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,121	2,301	-7.8%	2,037	2,193	0	0	0	0	83	108
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	37	52	-28.1%	0	0	0	0	0	0	37	52
Mountain	184	209	-12.2%	0	0	184	209	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	184	209	-12.2%	0	0	184	209	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,995	4,361	-8.4%	3,319	3,431	322	536	4	4	350	390

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	4,181	4,102	1.9%	24	NM	3,989	3,903	73	78	95	89
Connecticut	1,653	1,136	45.5%	3	4	1,573	1,058	30	32	48	42
Maine	199	NM	NM	0	0	171	NM	3	3	NM	24
Massachusetts	1,377	1,959	-29.7%	NM	NM	1,303	1,876	36	38	19	21
New Hampshire	422	341	23.9%	2	4	417	333	0	1	2	3
Rhode Island	530	482	9.8%	0	0	525	477	4	5	0	0
Vermont	0	0	12.8%	0	0	0	0	0	0	0	0
Middle Atlantic	14,339	12,919	11.0%	1,074	981	12,992	11,673	80	87	192	177
New Jersey	3,294	3,443	-4.3%	NM	NM	3,232	3,375	14	17	33	29
New York	4,434	4,405	0.7%	1,059	958	3,267	3,353	57	60	51	35
Pennsylvania	6,611	5,071	30.4%	0	1	6,494	4,946	9	10	108	113
East North Central	10,925	8,387	30.3%	3,807	3,561	6,767	4,462	115	125	235	239
Illinois	1,348	1,415	-4.7%	166	NM	1,099	1,181	27	29	55	75
Indiana	2,506	1,451	72.7%	1,157	1,202	1,225	126	16	19	107	103
Michigan	2,358	2,182	8.1%	748	705	1,532	1,403	41	44	37	31
Ohio	3,304	2,262	46.0%	481	597	2,784	1,628	25	26	14	12
Wisconsin	1,409	1,077	30.8%	1,255	928	127	124	6	7	21	19
West North Central	2,928	1,637	78.9%	2,514	1,361	332	218	28	27	54	30
Iowa	746	253	195.1%	696	234	NM	0	9	8	41	10
Kansas	471	291	61.8%	469	285	0	0	0	0	NM	6
Minnesota	796	501	58.9%	682	398	97	85	9	8	8	10
Missouri	692	390	77.6%	445	243	235	NM	10	10	3	3
Nebraska	66	68	-3.4%	66	68	0	0	0	0	0	0
North Dakota	82	68	20.1%	81	67	0	0	0	0	1	1
South Dakota	75	66	14.5%	75	66	0	0	0	0	0	0
South Atlantic	33,807	30,542	10.7%	27,473	24,677	5,874	5,436	91	45	369	383
Delaware	365	702	-48.0%	1	1	295	619	0	0	70	83
District of Columbia	2	4	-43.1%	0	0	0	0	2	4	0	0
Florida	16,033	14,725	8.9%	15,118	13,657	784	947	1	1	129	119
Georgia	5,013	4,828	3.8%	3,653	3,711	1,303	1,064	0	0	57	54
Maryland	1,154	619	86.3%	369	0	691	573	86	38	8	8
North Carolina	3,877	3,372	15.0%	3,217	2,914	643	446	1	1	16	12
South Carolina	2,189	1,451	50.9%	1,752	1,271	426	169	0	0	11	11
Virginia	5,065	4,701	7.7%	3,362	3,113	1,643	1,532	1	1	60	54
West Virginia	108	140	-22.9%	1	11	90	86	0	0	17	43
East South Central	11,799	10,513	12.2%	7,833	7,051	3,745	3,256	15	16	206	190
Alabama	5,166	4,528	14.1%	1,826	1,492	3,239	2,946	0	0	101	90
Kentucky	1,100	913	20.5%	1,067	875	14	17	0	0	19	21
Mississippi	4,355	4,098	6.3%	3,830	3,771	491	292	0	0	35	36
Tennessee	1,178	973	21.0%	1,110	913	2	0	15	16	51	44
West South Central	34,513	30,710	12.4%	12,234	9,159	16,688	16,115	86	77	5,505	5,360
Arkansas	1,955	1,791	9.2%	1,823	651	110	1,121	0	0	22	19
Louisiana	5,543	5,280	5.0%	3,123	2,927	442	286	15	15	1,963	2,053
Oklahoma	4,551	3,284	38.6%	2,866	1,890	1,658	1,379	0	0	26	14
Texas	22,464	20,355	10.4%	4,422	3,691	14,478	13,329	71	62	3,493	3,274
Mountain	9,722	9,105	6.8%	7,416	6,742	2,157	2,223	33	32	117	108
Arizona	3,527	3,657	-3.5%	2,249	2,235	1,265	1,409	13	13	0	0
Colorado	1,613	1,154	39.8%	1,373	967	238	185	0	0	2	2
Idaho	249	191	30.2%	134	106	105	76	3	3	NM	NM
Montana	26	29	-12.5%	25	27	NM	NM	0	0	0	0
Nevada	2,492	2,550	-2.3%	2,275	2,333	182	187	6	3	29	27
New Mexico	1,122	963	16.5%	753	610	359	343	8	9	1	0
Utah	628	511	23.0%	589	453	6	20	2	4	31	34
Wyoming	65	50	30.5%	16	11	0	0	0	0	49	38
Pacific Contiguous	7,578	7,979	-5.0%	2,925	2,697	3,618	4,218	149	158	885	906
California	6,233	7,173	-13.1%	2,097	2,260	3,115	3,861	144	155	877	896
Oregon	591	406	45.6%	319	232	264	167	3	2	NM	NM
Washington	753	400	88.4%	509	205	240	190	2	1	NM	NM
Pacific Noncontiguous	214	167	27.6%	208	161	0	0	0	0	6	6
Alaska	214	167	27.6%	208	161	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	130,004	116,061	12.0%	65,507	56,424	56,163	51,504	670	645	7,664	7,489

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	21,264	22,065	-3.6%	98	97	20,170	20,979	427	421	569	568
Connecticut	8,374	6,991	19.8%	20	22	7,926	6,552	172	170	256	246
Maine	991	959	3.3%	0	0	809	766	15	14	167	179
Massachusetts	8,576	10,471	-18.1%	75	NM	8,156	10,080	214	210	130	127
New Hampshire	818	1,560	-47.5%	3	20	797	1,518	4	6	16	16
Rhode Island	2,504	2,084	20.2%	0	0	2,482	2,063	21	21	0	0
Vermont	1	1	-15.6%	0	1	0	0	0	0	0	0
Middle Atlantic	72,337	65,523	10.4%	4,664	4,597	66,054	59,501	498	497	1,121	928
New Jersey	17,326	17,490	-0.9%	NM	98	16,969	17,124	88	94	190	174
New York	21,701	22,270	-2.6%	4,580	4,497	16,489	17,284	339	335	294	155
Pennsylvania	33,310	25,763	29.3%	5	3	32,597	25,094	72	67	637	599
East North Central	61,084	43,479	40.5%	21,576	17,882	37,253	23,496	681	670	1,574	1,431
Illinois	6,702	6,441	4.0%	650	503	5,558	5,451	164	154	330	333
Indiana	11,869	8,204	44.7%	5,672	6,511	5,391	989	89	94	716	610
Michigan	15,639	11,626	34.5%	4,652	3,476	10,436	7,656	285	263	265	231
Ohio	19,438	12,240	58.8%	3,779	3,116	15,442	8,908	114	122	103	94
Wisconsin	7,437	4,968	49.7%	6,822	4,276	427	493	28	37	160	162
West North Central	14,391	7,303	97.0%	12,303	5,963	1,607	980	156	126	325	235
Iowa	3,472	1,077	222.4%	3,228	919	NM	NM	51	36	194	122
Kansas	1,894	1,011	87.5%	1,858	992	0	0	0	0	36	19
Minnesota	4,488	2,568	74.8%	3,819	2,072	551	380	51	50	67	67
Missouri	3,323	1,777	87.0%	2,193	1,112	1,056	600	52	40	23	24
Nebraska	371	247	50.0%	368	246	0	0	2	1	0	0
North Dakota	459	354	29.5%	454	352	0	0	0	0	5	2
South Dakota	383	270	42.0%	383	270	0	0	0	0	0	0
South Atlantic	166,521	154,253	8.0%	135,717	126,791	28,379	24,960	363	266	2,062	2,237
Delaware	2,615	3,303	-20.8%	1	2	2,288	2,847	0	0	325	454
District of Columbia	14	15	-10.1%	0	0	0	0	14	15	0	0
Florida	79,099	74,858	5.7%	74,781	69,879	3,557	4,243	10	13	751	723
Georgia	25,724	24,902	3.3%	19,179	19,123	6,230	5,461	0	0	314	318
Maryland	5,795	2,834	104.5%	1,648	0	3,771	2,560	328	228	48	45
North Carolina	20,115	18,779	7.1%	17,346	16,262	2,686	2,454	4	5	80	58
South Carolina	8,379	7,661	9.4%	6,931	6,546	1,380	1,048	0	0	68	67
Virginia	24,221	21,401	13.2%	15,735	14,910	8,134	6,153	7	4	345	335
West Virginia	560	501	11.7%	96	69	333	195	0	0	131	237
East South Central	64,948	54,625	18.9%	43,638	36,480	20,053	16,916	99	91	1,158	1,137
Alabama	27,288	23,661	15.3%	9,612	8,297	17,108	14,807	0	0	568	557
Kentucky	7,101	4,057	75.0%	6,665	3,806	333	126	0	0	103	125
Mississippi	25,291	21,983	15.0%	22,469	19,790	2,604	1,978	6	3	212	212
Tennessee	5,268	4,924	7.0%	4,892	4,587	9	5	93	88	275	243
West South Central	167,004	139,701	19.5%	50,107	38,764	84,868	68,886	346	389	31,682	31,662
Arkansas	10,189	8,172	24.7%	4,714	2,713	5,318	5,317	0	0	157	142
Louisiana	29,363	27,761	5.8%	15,410	13,492	2,108	2,088	76	74	11,769	12,106
Oklahoma	18,949	13,501	40.3%	11,019	8,540	7,765	4,860	0	0	165	101
Texas	108,504	90,266	20.2%	18,964	14,019	69,677	56,620	271	315	19,592	19,313
Mountain	42,264	36,814	14.8%	33,450	28,439	7,863	7,437	208	203	744	735
Arizona	12,872	10,865	18.5%	9,588	7,504	3,212	3,293	73	68	0	0
Colorado	7,825	5,508	42.1%	6,745	4,630	1,071	868	0	0	9	10
Idaho	967	1,077	-10.2%	358	578	531	414	20	20	58	64
Montana	181	181	0.5%	161	149	19	29	0	0	1	2
Nevada	11,874	11,853	0.2%	10,682	10,694	1,016	1,014	32	28	144	118
New Mexico	5,007	4,334	15.5%	2,999	2,560	1,953	1,720	50	53	4	1
Utah	3,133	2,637	18.8%	2,832	2,280	61	98	33	34	206	224
Wyoming	405	360	12.6%	84	43	1	1	0	0	321	316
Pacific Contiguous	44,377	41,482	7.0%	17,260	15,674	21,006	19,708	929	946	5,183	5,155
California	35,362	34,877	1.4%	12,699	12,266	16,678	16,625	894	916	5,090	5,071
Oregon	5,249	3,544	48.1%	2,436	1,523	2,749	1,962	23	20	41	39
Washington	3,766	3,061	23.0%	2,124	1,884	1,578	1,121	12	10	52	46
Pacific Noncontiguous	1,259	965	30.5%	1,229	929	0	0	0	2	30	34
Alaska	1,259	965	30.5%	1,229	929	0	0	0	2	30	34
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	655,450	566,211	15.8%	320,042	275,614	287,252	242,864	3,707	3,611	44,448	44,122

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

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2008-June 2018 (Thousand Megawatthours)

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
2008	693,958	80,144	107,316	1,482	80	882,981
2009	743,901	76,141	99,588	1,332	18	920,979
2010	804,033	85,820	96,332	1,490	22	987,697
2011	828,554	85,392	97,578	2,125	40	1,013,689
2012	1,017,040	98,446	108,285	1,986	138	1,225,894
2013	947,172	91,272	83,746	2,328	317	1,124,836
2014	958,921	90,159	74,100	2,921	508	1,126,609
2015	1,130,617	108,655	89,796	3,760	654	1,333,482
2016	1,152,245	123,429	98,204	3,714	715	1,378,307
2017	1,059,936	118,660	90,116	3,998	155	1,272,864
Year 2016						
January	97,555	7,212	4,933	295	50	110,044
February	86,920	6,841	4,491	253	47	98,552
March	87,256	9,126	7,184	275	49	103,890
April	80,910	9,788	7,843	278	56	98,876
May	92,066	9,681	8,328	301	53	110,430
June	108,301	11,690	10,993	345	66	131,395
July	120,441	15,821	14,812	402	78	151,554
August	124,933	15,905	13,421	421	80	154,760
Sept	104,442	11,340	9,422	333	65	125,603
October	84,780	9,990	7,788	276	65	102,898
November	80,168	8,609	4,859	252	54	93,942
December	84,473	7,426	4,129	282	53	96,364
Year 2017						
January	80,770	6,995	3,399	270	11	91,447
February	69,914	7,083	3,811	222	10	81,040
March	78,456	9,987	5,979	274	11	94,708
April	72,025	7,941	5,960	241	11	86,178
May	80,385	9,092	7,010	277	13	96,777
June	95,327	10,941	9,434	345	15	116,061
July	116,510	14,710	12,973	509	18	144,720
August	115,031	12,692	11,395	476	16	139,610
Sept	95,333	11,438	9,551	393	14	116,728
October	85,990	11,062	9,424	377	14	106,867
November	78,308	8,541	5,421	305	10	92,585
December	91,887	8,176	5,760	310	10	106,144
Year 2018						
January	92,512	10,483	6,267	329	10	109,601
February	84,853	6,702	4,483	270	10	96,317
March	89,343	8,531	5,690	309	10	103,884
April	81,930	11,414	6,328	318	13	100,004
May	92,360	12,833	10,020	409	18	115,639
June	107,091	12,339	10,179	379	16	130,004

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
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.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	63	72	-11.6%	0	0	0	0	0	0	63	72
New Jersey	16	17	-8.2%	0	0	0	0	0	0	16	17
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	47	54	-12.7%	0	0	0	0	0	0	47	54
East North Central	465	494	-6.0%	14	12	173	177	0	0	278	305
Illinois	17	3	509.6%	0	0	0	0	0	0	17	3
Indiana	246	291	-15.6%	NM	NM	0	0	0	0	245	290
Michigan	133	123	8.4%	13	10	121	113	0	0	0	0
Ohio	68	77	-11.8%	0	0	52	64	0	0	16	13
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	4	11.1%	0	0	0	0	0	0	4	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	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	4	11.1%	0	0	0	0	0	0	4	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	26	55	-53.4%	0	0	0	0	0	0	26	55
Delaware	24	51	-52.3%	0	0	0	0	0	0	24	51
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	-2.7%	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	1	3	-78.3%	0	0	0	0	0	0	1	3
East South Central	1	2	-25.6%	0	0	0	0	0	0	1	2
Alabama	0	NM	NM	0	0	0	0	0	0	0	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-15.7%	0	0	0	0	0	0	1	1
West South Central	356	407	-12.6%	0	0	116	122	0	0	240	285
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	137	189	-27.3%	0	0	0	0	0	0	137	189
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	218	218	0.2%	0	0	116	122	0	0	102	96
Mountain	25	25	-0.1%	0	0	0	1	0	0	24	23
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	1	-84.1%	0	0	0	1	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	0	504.4%	0	0	0	0	0	0	1	0
Wyoming	24	23	2.3%	0	0	0	0	0	0	24	23
Pacific Contiguous	166	149	11.4%	0	0	33	31	0	0	133	118
California	133	118	13.1%	0	0	0	0	0	0	133	118
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	33	31	4.9%	0	0	33	31	0	0	0	0
Pacific Noncontiguous	6	4	33.7%	0	0	0	0	0	0	6	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	6	4	33.7%	0	0	0	0	0	0	6	4
U.S. Total	1,111	1,211	-8.3%	14	12	322	331	0	0	775	867

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	355	415	-14.3%	0	0	0	0	0	0	355	415
New Jersey	107	111	-3.3%	0	0	0	0	0	0	107	111
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	248	304	-18.3%	0	0	0	0	0	0	248	304
East North Central	2,567	2,951	-13.0%	115	88	1,025	1,101	0	0	1,427	1,761
Illinois	76	89	-15.1%	0	0	0	0	0	0	76	89
Indiana	1,284	1,585	-19.0%	NM	NM	0	0	0	0	1,279	1,577
Michigan	862	835	3.2%	110	80	751	755	0	0	0	0
Ohio	345	442	-21.8%	0	0	273	346	0	0	72	96
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	25	17	43.7%	0	0	0	0	0	0	25	17
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	25	17	43.7%	0	0	0	0	0	0	25	17
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	116	264	-56.2%	0	0	0	0	0	0	116	264
Delaware	104	246	-57.6%	0	0	0	0	0	0	104	246
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	3	-10.7%	0	0	0	0	0	0	2	3
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	9	15	-41.6%	0	0	0	0	0	0	9	15
East South Central	7	16	-55.5%	0	0	0	0	0	0	7	16
Alabama	NM	9	NM	0	0	0	0	0	0	NM	9
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5	7	-35.1%	0	0	0	0	0	0	5	7
West South Central	2,201	2,392	-8.0%	0	0	708	693	0	0	1,493	1,700
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	915	1,120	-18.3%	0	0	0	0	0	0	915	1,120
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,286	1,272	1.1%	0	0	708	693	0	0	578	579
Mountain	194	199	-2.2%	0	0	5	8	0	0	189	190
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	8	-37.1%	0	0	5	8	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	6	-78.2%	0	0	0	0	0	0	1	6
Wyoming	188	184	1.9%	0	0	0	0	0	0	188	184
Pacific Contiguous	984	838	17.4%	0	0	203	160	0	0	781	679
California	781	679	15.1%	0	0	0	0	0	0	781	679
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	203	160	27.1%	0	0	203	160	0	0	0	0
Pacific Noncontiguous	28	25	11.3%	0	0	0	0	0	0	28	25
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	28	25	11.3%	0	0	0	0	0	0	28	25
U.S. Total	6,478	7,118	-9.0%	115	88	1,941	1,962	0	0	4,421	5,068

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	2,838	2,883	-1.6%	0	0	2,838	2,883	0	0	0	0
Connecticut	1,500	1,500	0.0%	0	0	1,500	1,500	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	437	482	-9.4%	0	0	437	482	0	0	0	0
New Hampshire	900	901	0.0%	0	0	900	901	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,812	13,579	1.7%	0	0	13,812	13,579	0	0	0	0
New Jersey	2,928	2,952	-0.8%	0	0	2,928	2,952	0	0	0	0
New York	3,763	3,503	7.4%	0	0	3,763	3,503	0	0	0	0
Pennsylvania	7,121	7,124	0.0%	0	0	7,121	7,124	0	0	0	0
East North Central	13,699	13,400	2.2%	2,401	2,401	11,298	10,999	0	0	0	0
Illinois	8,316	8,046	3.4%	0	0	8,316	8,046	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,974	2,975	0.0%	2,401	2,401	574	574	0	0	0	0
Ohio	1,543	1,510	2.2%	0	0	1,543	1,510	0	0	0	0
Wisconsin	865	869	-0.5%	0	0	865	869	0	0	0	0
West North Central	3,822	3,835	-0.3%	3,400	3,404	422	431	0	0	0	0
Iowa	422	431	-2.1%	0	0	422	431	0	0	0	0
Kansas	865	869	-0.5%	865	869	0	0	0	0	0	0
Minnesota	1,217	1,184	2.8%	1,217	1,184	0	0	0	0	0	0
Missouri	859	785	9.4%	859	785	0	0	0	0	0	0
Nebraska	459	566	-18.9%	459	566	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,605	17,749	-0.8%	16,328	16,478	1,277	1,271	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	2,623	2,635	-0.5%	2,623	2,635	0	0	0	0	0	0
Georgia	2,944	2,908	1.3%	2,944	2,908	0	0	0	0	0	0
Maryland	1,277	1,271	0.4%	0	0	1,277	1,271	0	0	0	0
North Carolina	3,536	3,706	-4.6%	3,536	3,706	0	0	0	0	0	0
South Carolina	4,635	4,705	-1.5%	4,635	4,705	0	0	0	0	0	0
Virginia	2,590	2,524	2.6%	2,590	2,524	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,658	6,827	-2.5%	6,658	6,827	0	0	0	0	0	0
Alabama	3,634	3,623	0.3%	3,634	3,623	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-6	974	-100.7%	-6	974	0	0	0	0	0	0
Tennessee	3,031	2,231	35.9%	3,031	2,231	0	0	0	0	0	0
West South Central	6,142	4,696	30.8%	2,538	1,870	3,604	2,826	0	0	0	0
Arkansas	1,026	604	69.9%	1,026	604	0	0	0	0	0	0
Louisiana	1,513	1,266	19.5%	1,513	1,266	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,604	2,826	27.5%	0	0	3,604	2,826	0	0	0	0
Mountain	2,750	2,813	-2.2%	2,750	2,813	0	0	0	0	0	0
Arizona	2,750	2,813	-2.2%	2,750	2,813	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,361	1,230	92.0%	2,361	1,230	0	0	0	0	0	0
California	1,637	960	70.6%	1,637	960	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	724	270	168.4%	724	270	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	69,688	67,011	4.0%	36,437	35,022	33,251	31,988	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	16,442	14,896	10.4%	0	0	16,442	14,896	0	0	0	0
Connecticut	9,083	8,336	9.0%	0	0	9,083	8,336	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,926	2,089	-7.8%	0	0	1,926	2,089	0	0	0	0
New Hampshire	5,433	4,471	21.5%	0	0	5,433	4,471	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	79,332	76,892	3.2%	0	0	79,332	76,892	0	0	0	0
New Jersey	17,045	16,777	1.6%	0	0	17,045	16,777	0	0	0	0
New York	20,966	19,456	7.8%	0	0	20,966	19,456	0	0	0	0
Pennsylvania	41,321	40,659	1.6%	0	0	41,321	40,659	0	0	0	0
East North Central	77,980	76,003	2.6%	11,924	13,647	66,057	62,356	0	0	0	0
Illinois	48,519	46,927	3.4%	0	0	48,519	46,927	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	15,361	16,183	-5.1%	11,924	13,647	3,437	2,536	0	0	0	0
Ohio	8,862	8,133	9.0%	0	0	8,862	8,133	0	0	0	0
Wisconsin	5,238	4,760	10.0%	0	0	5,238	4,760	0	0	0	0
West North Central	22,436	23,357	-3.9%	19,827	20,715	2,609	2,642	0	0	0	0
Iowa	2,609	2,642	-1.2%	0	0	2,609	2,642	0	0	0	0
Kansas	3,819	5,298	-27.9%	3,819	5,298	0	0	0	0	0	0
Minnesota	7,548	6,818	10.7%	7,548	6,818	0	0	0	0	0	0
Missouri	5,290	5,180	2.1%	5,290	5,180	0	0	0	0	0	0
Nebraska	3,170	3,419	-7.3%	3,170	3,419	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	101,406	99,206	2.2%	94,230	91,912	7,177	7,293	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	15,190	14,124	7.5%	15,190	14,124	0	0	0	0	0	0
Georgia	16,941	16,052	5.5%	16,941	16,052	0	0	0	0	0	0
Maryland	7,177	7,293	-1.6%	0	0	7,177	7,293	0	0	0	0
North Carolina	20,451	20,389	0.3%	20,451	20,389	0	0	0	0	0	0
South Carolina	27,428	26,030	5.4%	27,428	26,030	0	0	0	0	0	0
Virginia	14,220	15,317	-7.2%	14,220	15,317	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	40,311	39,097	3.1%	40,311	39,097	0	0	0	0	0	0
Alabama	19,057	20,887	-8.8%	19,057	20,887	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,365	4,075	-42.0%	2,365	4,075	0	0	0	0	0	0
Tennessee	18,890	14,134	33.6%	18,890	14,134	0	0	0	0	0	0
West South Central	35,570	30,084	18.2%	14,639	11,320	20,931	18,764	0	0	0	0
Arkansas	6,430	4,760	35.1%	6,430	4,760	0	0	0	0	0	0
Louisiana	8,209	6,559	25.2%	8,209	6,559	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20,931	18,764	11.5%	0	0	20,931	18,764	0	0	0	0
Mountain	15,861	15,919	-0.4%	15,861	15,919	0	0	0	0	0	0
Arizona	15,861	15,919	-0.4%	15,861	15,919	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	13,228	11,387	16.2%	13,228	11,387	0	0	0	0	0	0
California	8,562	7,953	7.7%	8,562	7,953	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,666	3,433	35.9%	4,666	3,433	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	402,567	386,841	4.1%	210,020	203,997	192,547	182,844	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	571	600	-4.8%	74	81	467	486	0	0	30	33
Connecticut	20	22	-10.9%	NM	2	18	20	0	0	0	0
Maine	280	288	-2.9%	0	0	251	256	0	0	29	32
Massachusetts	68	71	-4.9%	NM	15	54	56	0	0	0	1
New Hampshire	104	111	-6.7%	26	26	78	85	0	0	0	0
Rhode Island	0	0	-35.0%	0	0	0	0	0	0	0	0
Vermont	99	106	-6.6%	33	38	66	68	0	0	0	0
Middle Atlantic	2,689	2,724	-1.3%	2,121	2,127	565	589	0	1	3	7
New Jersey	1	NM	NM	0	0	1	NM	0	0	0	0
New York	2,462	2,487	-1.0%	2,107	2,119	351	360	0	1	3	7
Pennsylvania	227	235	-3.5%	13	8	213	227	0	0	0	0
East North Central	547	550	-0.6%	481	486	49	48	0	0	18	NM
Illinois	12	11	6.5%	3	3	8	8	0	0	0	0
Indiana	40	41	-1.7%	40	41	0	0	0	0	0	0
Michigan	163	168	-2.6%	150	154	NM	NM	0	0	NM	NM
Ohio	47	48	-2.7%	30	31	17	17	0	0	0	0
Wisconsin	286	283	0.9%	258	257	NM	NM	0	0	NM	NM
West North Central	1,159	1,257	-7.8%	1,121	1,215	NM	NM	0	0	NM	15
Iowa	93	88	6.0%	92	87	1	1	0	0	0	0
Kansas	2	3	-39.4%	0	0	2	3	0	0	0	0
Minnesota	124	123	0.5%	89	86	NM	NM	0	0	NM	15
Missouri	112	120	-6.2%	112	120	0	0	0	0	0	0
Nebraska	162	164	-1.1%	162	164	0	0	0	0	0	0
North Dakota	207	229	-9.3%	207	229	0	0	0	0	0	0
South Dakota	458	531	-13.6%	458	531	0	0	0	0	0	0
South Atlantic	1,267	1,424	-11.0%	1,025	1,149	193	225	0	1	48	49
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	16	17	-4.3%	16	17	0	0	0	0	0	0
Georgia	242	271	-10.8%	240	270	NM	NM	0	0	1	1
Maryland	141	174	-18.6%	0	0	141	174	0	0	0	0
North Carolina	405	431	-6.1%	398	424	6	5	0	1	NM	NM
South Carolina	197	232	-15.0%	192	227	NM	4	0	0	0	0
Virginia	115	146	-20.9%	108	139	7	7	0	0	0	0
West Virginia	150	153	-2.1%	72	72	32	34	0	0	46	47
East South Central	1,794	1,813	-1.0%	1,793	1,812	NM	NM	0	0	0	0
Alabama	765	777	-1.5%	765	777	0	0	0	0	0	0
Kentucky	408	379	7.7%	407	378	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	621	657	-5.6%	621	657	0	0	0	0	0	0
West South Central	790	834	-5.3%	675	720	115	114	NM	NM	0	0
Arkansas	323	344	-6.1%	317	339	NM	NM	0	0	0	0
Louisiana	106	107	-0.5%	0	0	106	107	0	0	0	0
Oklahoma	237	247	-4.2%	237	247	0	0	0	0	0	0
Texas	124	136	-8.9%	121	133	3	3	NM	NM	0	0
Mountain	3,341	3,476	-3.9%	3,203	3,325	136	150	2	2	0	0
Arizona	659	640	2.9%	659	640	0	0	0	0	0	0
Colorado	212	240	-11.8%	184	207	NM	NM	2	2	0	0
Idaho	969	1,035	-6.4%	880	939	88	95	0	0	0	0
Montana	1,075	1,132	-5.1%	1,060	1,117	NM	NM	0	0	0	0
Nevada	208	192	8.4%	203	186	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	87	92	-4.8%	87	91	0	0	0	0	0	0
Wyoming	106	116	-8.5%	105	114	2	2	0	0	0	0
Pacific Contiguous	15,066	17,547	-14.1%	14,824	17,214	241	333	NM	0	0	0
California	2,893	4,506	-35.8%	2,729	4,253	163	252	NM	0	0	0
Oregon	3,441	3,859	-10.8%	3,412	3,828	NM	NM	0	0	0	0
Washington	8,732	9,182	-4.9%	8,683	9,133	49	49	0	0	0	0
Pacific Noncontiguous	190	199	-4.4%	165	175	3	0	NM	NM	NM	NM
Alaska	181	194	-6.4%	162	174	0	0	NM	NM	0	0
Hawaii	9	NM	NM	2	1	3	0	0	0	NM	NM
U.S. Total	27,415	30,424	-9.9%	25,481	28,303	1,795	1,972	NM	NM	114	124

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	3,632	3,671	-1.0%	490	500	2,941	2,966	2	3	199	202
Connecticut	147	153	-4.0%	19	16	128	137	0	0	0	0
Maine	1,717	1,721	-0.2%	0	0	1,522	1,524	0	0	195	197
Massachusetts	439	450	-2.4%	92	100	340	343	2	3	4	4
New Hampshire	694	701	-1.0%	157	157	538	545	0	0	0	0
Rhode Island	2	2	19.6%	0	0	2	2	0	0	0	0
Vermont	633	644	-1.7%	222	227	411	417	0	0	0	0
Middle Atlantic	16,205	15,966	1.5%	12,570	12,267	3,596	3,656	3	4	36	40
New Jersey	24	17	35.9%	0	0	24	17	0	0	0	0
New York	14,723	14,442	1.9%	12,501	12,202	2,183	2,197	3	4	36	40
Pennsylvania	1,458	1,506	-3.2%	69	65	1,389	1,441	0	0	0	0
East North Central	3,277	3,234	1.3%	2,881	2,842	291	287	1	1	104	104
Illinois	70	66	6.0%	22	20	47	45	1	1	0	0
Indiana	240	239	0.3%	240	239	0	0	0	0	0	0
Michigan	976	962	1.5%	895	881	67	66	0	0	14	15
Ohio	286	288	-0.7%	183	184	102	103	0	0	0	0
Wisconsin	1,705	1,679	1.5%	1,540	1,517	75	73	0	0	89	89
West North Central	6,954	6,993	-0.6%	6,740	6,755	150	151	0	0	65	87
Iowa	555	538	3.1%	553	534	3	4	0	0	0	0
Kansas	11	15	-25.0%	0	0	11	15	0	0	0	0
Minnesota	731	735	-0.5%	530	515	136	133	0	0	65	87
Missouri	740	772	-4.2%	740	772	0	0	0	0	0	0
Nebraska	968	950	1.9%	968	950	0	0	0	0	0	0
North Dakota	1,233	1,234	-0.1%	1,233	1,234	0	0	0	0	0	0
South Dakota	2,716	2,749	-1.2%	2,716	2,749	0	0	0	0	0	0
South Atlantic	8,789	9,290	-5.4%	6,893	7,289	1,599	1,704	7	7	289	290
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	102	104	-2.1%	102	104	0	0	0	0	0	0
Georgia	1,610	1,779	-9.5%	1,597	1,766	6	5	0	0	7	8
Maryland	1,280	1,389	-7.9%	0	0	1,280	1,389	0	0	0	0
North Carolina	2,563	2,639	-2.9%	2,523	2,603	31	25	5	6	NM	NM
South Carolina	1,463	1,582	-7.5%	1,426	1,551	35	30	1	1	0	0
Virginia	861	886	-2.9%	819	844	42	42	0	0	0	0
West Virginia	909	911	-0.1%	425	421	206	212	0	0	279	278
East South Central	11,098	11,498	-3.5%	11,092	11,493	NM	NM	0	0	0	0
Alabama	4,897	5,141	-4.7%	4,897	5,141	0	0	0	0	0	0
Kentucky	2,190	2,211	-0.9%	2,185	2,205	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,010	4,147	-3.3%	4,010	4,147	0	0	0	0	0	0
West South Central	5,048	5,192	-2.8%	4,374	4,535	670	654	NM	NM	0	0
Arkansas	2,072	2,140	-3.2%	2,046	2,119	26	21	0	0	0	0
Louisiana	627	617	1.5%	0	0	627	617	0	0	0	0
Oklahoma	1,494	1,526	-2.1%	1,494	1,526	0	0	0	0	0	0
Texas	855	909	-5.9%	834	890	17	16	NM	NM	0	0
Mountain	19,608	19,165	2.3%	18,802	18,365	801	795	5	5	0	0
Arizona	3,798	3,739	1.6%	3,798	3,739	0	0	0	0	0	0
Colorado	1,250	1,266	-1.3%	1,097	1,108	147	152	5	5	0	0
Idaho	5,764	5,727	0.7%	5,240	5,207	524	520	0	0	0	0
Montana	6,406	6,342	1.0%	6,317	6,254	89	88	0	0	0	0
Nevada	1,109	819	35.5%	1,078	793	32	NM	0	0	0	0
New Mexico	151	152	-0.7%	151	152	0	0	0	0	0	0
Utah	504	498	1.3%	499	490	5	8	0	0	0	0
Wyoming	626	623	0.4%	623	622	3	2	0	0	0	0
Pacific Contiguous	86,482	98,421	-12.1%	85,228	96,509	1,245	1,900	NM	12	0	0
California	13,815	25,834	-46.5%	13,029	24,383	777	1,439	NM	12	0	0
Oregon	22,282	22,548	-1.2%	22,105	22,373	176	175	0	0	0	0
Washington	50,385	50,039	0.7%	50,094	49,754	291	285	0	0	0	0
Pacific Noncontiguous	1,133	1,106	2.4%	978	965	22	8	113	112	NM	NM
Alaska	1,079	1,072	0.7%	966	960	0	0	113	112	0	0
Hawaii	53	34	58.1%	12	4	22	8	0	0	NM	NM
U.S. Total	162,224	174,536	-7.1%	150,048	161,520	11,319	12,126	143	146	713	745

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	1,061	1,083	-2.1%	63	80	890	896	13	18	95	89
Connecticut	79	82	-3.6%	0	0	79	82	NM	0	NM	0
Maine	412	430	-4.4%	0	0	312	334	6	8	94	89
Massachusetts	295	251	17.4%	NM	7	281	239	6	5	1	0
New Hampshire	167	207	-19.2%	23	30	143	173	1	4	0	0
Rhode Island	33	34	-2.9%	0	0	32	33	0	1	0	0
Vermont	75	79	-4.7%	32	42	42	36	0	0	0	0
Middle Atlantic	1,303	1,309	-0.5%	14	12	1,164	1,164	75	68	50	66
New Jersey	266	216	22.9%	14	12	212	170	38	33	NM	NM
New York	575	589	-2.4%	0	0	537	552	21	22	17	16
Pennsylvania	462	504	-8.3%	0	0	414	442	16	13	32	49
East North Central	2,417	2,477	-2.4%	335	323	1,924	1,997	19	19	139	138
Illinois	866	957	-9.5%	NM	3	863	954	NM	NM	0	0
Indiana	450	433	4.0%	42	37	400	387	2	2	6	7
Michigan	626	629	-0.5%	160	162	399	398	11	12	57	57
Ohio	176	197	-10.5%	NM	NM	147	168	NM	NM	25	25
Wisconsin	299	261	14.5%	129	118	115	89	4	3	51	51
West North Central	6,369	5,745	10.9%	1,868	1,822	4,420	3,843	18	16	64	64
Iowa	1,641	1,612	1.8%	1,061	1,035	573	569	4	4	3	4
Kansas	1,900	1,472	29.0%	190	148	1,708	1,323	NM	NM	0	0
Minnesota	1,206	1,074	12.3%	229	224	913	786	NM	4	60	60
Missouri	270	170	58.7%	3	4	260	160	6	6	0	0
Nebraska	399	367	8.5%	23	22	374	344	2	1	0	0
North Dakota	752	832	-9.7%	300	323	451	509	0	0	0	0
South Dakota	202	217	-7.1%	61	66	141	151	0	0	0	0
South Atlantic	3,482	2,868	21.4%	537	307	1,995	1,631	46	41	904	888
Delaware	14	13	11.1%	NM	NM	11	10	NM	NM	NM	NM
District of Columbia	4	2	114.6%	0	0	0	2	4	0	0	0
Florida	654	440	48.6%	243	57	252	216	4	4	155	163
Georgia	654	611	7.1%	36	28	276	269	NM	NM	342	314
Maryland	146	123	18.5%	NM	NM	133	114	3	NM	9	7
North Carolina	1,097	917	19.6%	58	46	911	738	18	16	110	116
South Carolina	294	245	20.0%	36	38	104	52	0	0	154	155
Virginia	490	376	30.2%	162	136	180	90	15	18	133	133
West Virginia	128	140	-8.5%	0	0	128	140	0	0	0	0
East South Central	652	578	12.7%	18	12	135	74	NM	NM	498	491
Alabama	336	303	11.0%	NM	NM	64	42	0	0	268	258
Kentucky	44	39	12.4%	13	9	NM	0	0	0	29	29
Mississippi	159	137	16.0%	0	0	36	4	0	0	123	134
Tennessee	113	99	13.4%	0	0	34	27	NM	NM	78	71
West South Central	11,273	7,573	48.9%	183	137	10,623	7,010	8	7	458	419
Arkansas	144	129	12.1%	NM	NM	32	12	1	1	112	116
Louisiana	247	228	8.5%	NM	0	7	7	0	0	240	221
Oklahoma	2,831	1,921	47.4%	156	117	2,648	1,797	0	0	27	7
Texas	8,050	5,295	52.0%	26	20	7,937	5,194	8	6	79	75
Mountain	4,449	3,814	16.6%	359	321	4,036	3,443	18	15	36	34
Arizona	686	646	6.1%	98	73	585	571	NM	NM	0	0
Colorado	1,019	796	28.1%	32	24	984	769	NM	NM	0	0
Idaho	317	323	-1.6%	NM	NM	270	289	1	1	33	32
Montana	165	166	-0.7%	NM	17	147	147	0	0	2	2
Nevada	866	709	22.1%	5	5	851	696	10	8	0	0
New Mexico	696	480	44.8%	31	30	664	450	NM	NM	0	0
Utah	378	353	7.1%	22	20	354	332	1	1	0	0
Wyoming	323	341	-5.4%	142	152	181	190	0	0	0	0
Pacific Contiguous	7,761	6,977	11.2%	746	749	6,714	5,921	84	85	217	222
California	6,082	5,345	13.8%	240	232	5,697	4,970	80	81	65	63
Oregon	930	824	12.9%	167	134	715	643	3	3	45	45
Washington	750	808	-7.2%	339	384	302	308	NM	NM	107	114
Pacific Noncontiguous	147	124	19.1%	14	18	110	90	23	16	NM	NM
Alaska	17	17	-3.7%	NM	9	NM	NM	4	4	NM	NM
Hawaii	131	106	22.7%	6	9	105	85	20	12	0	0
U.S. Total	38,914	32,548	19.6%	4,139	3,782	32,010	26,068	305	286	2,460	2,412

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	6,194	5,962	3.9%	398	424	5,146	4,874	91	98	559	565
Connecticut	416	447	-7.1%	2	2	414	446	NM	0	NM	0
Maine	2,684	2,639	1.7%	0	0	2,091	2,030	36	45	557	564
Massachusetts	1,403	1,187	18.1%	42	40	1,328	1,118	31	29	2	0
New Hampshire	1,000	1,075	-7.0%	108	139	873	916	19	19	0	0
Rhode Island	207	190	8.8%	0	0	203	186	4	4	0	0
Vermont	485	423	14.5%	246	243	237	179	1	1	0	0
Middle Atlantic	7,908	7,464	5.9%	53	46	7,085	6,640	371	354	400	424
New Jersey	1,172	1,013	15.7%	53	46	935	798	178	164	6	NM
New York	3,606	3,344	7.9%	0	0	3,397	3,135	112	111	97	98
Pennsylvania	3,129	3,107	0.7%	0	0	2,753	2,707	80	78	296	321
East North Central	17,775	16,260	9.3%	2,143	2,001	14,671	13,338	112	115	849	806
Illinois	6,901	6,522	5.8%	18	18	6,879	6,501	NM	NM	0	0
Indiana	3,418	2,848	20.0%	221	201	3,146	2,595	11	11	41	42
Michigan	4,190	3,996	4.9%	1,093	1,060	2,693	2,554	61	66	343	315
Ohio	1,364	1,320	3.4%	14	12	1,192	1,153	7	8	150	147
Wisconsin	1,901	1,575	20.7%	797	709	761	535	28	28	315	303
West North Central	41,872	39,760	5.3%	12,923	13,112	28,498	26,199	95	97	357	352
Iowa	11,651	11,443	1.8%	7,406	7,412	4,204	3,987	27	23	14	21
Kansas	10,731	9,812	9.4%	1,074	877	9,649	8,928	NM	NM	0	0
Minnesota	7,784	7,160	8.7%	1,551	1,625	5,868	5,182	28	26	337	327
Missouri	1,707	1,033	65.2%	20	20	1,660	981	25	31	2	2
Nebraska	2,820	2,854	-1.2%	136	136	2,677	2,708	7	10	0	0
North Dakota	5,635	5,718	-1.4%	2,259	2,491	3,372	3,224	0	0	4	3
South Dakota	1,544	1,740	-11.2%	476	551	1,068	1,188	0	0	0	0
South Atlantic	18,731	15,667	19.6%	2,698	1,699	10,334	8,394	218	212	5,482	5,362
Delaware	68	64	6.6%	NM	NM	53	49	4	4	7	8
District of Columbia	30	23	27.0%	0	0	20	23	9	0	0	0
Florida	3,806	2,910	30.8%	1,185	362	1,563	1,489	27	26	1,031	1,034
Georgia	3,624	3,396	6.7%	161	143	1,388	1,268	NM	NM	2,073	1,983
Maryland	777	699	11.2%	5	NM	702	631	15	10	55	53
North Carolina	5,223	4,151	25.8%	218	170	4,241	3,282	74	68	689	630
South Carolina	1,619	1,371	18.1%	229	223	495	236	0	0	895	912
Virginia	2,614	2,170	20.5%	895	793	900	532	87	102	732	742
West Virginia	972	884	9.9%	0	0	972	884	0	0	0	0
East South Central	3,599	3,280	9.7%	93	61	653	359	NM	NM	2,851	2,857
Alabama	1,866	1,755	6.3%	21	8	311	221	0	0	1,534	1,527
Kentucky	251	226	11.1%	72	54	4	4	0	0	176	169
Mississippi	891	747	19.3%	0	0	179	11	0	0	712	736
Tennessee	591	552	7.1%	0	0	159	123	NM	NM	428	426
West South Central	63,486	53,826	17.9%	975	979	59,797	50,240	49	42	2,665	2,565
Arkansas	865	745	16.1%	NM	NM	160	69	3	3	701	671
Louisiana	1,387	1,377	0.8%	NM	0	41	41	0	0	1,345	1,336
Oklahoma	16,279	13,283	22.6%	821	835	15,292	12,335	0	0	166	113
Texas	44,955	38,422	17.0%	152	143	44,304	37,795	46	39	454	445
Mountain	24,723	22,345	10.6%	2,125	1,988	22,319	20,101	73	69	207	187
Arizona	3,111	2,924	6.4%	418	303	2,681	2,610	12	11	0	0
Colorado	5,991	5,683	5.4%	183	172	5,793	5,498	12	12	2	2
Idaho	1,970	1,838	7.2%	78	6	1,694	1,653	5	5	193	174
Montana	1,176	1,191	-1.3%	117	124	1,049	1,056	0	0	10	10
Nevada	4,285	3,734	14.7%	21	22	4,225	3,679	36	32	1	1
New Mexico	4,074	2,779	46.6%	133	125	3,939	2,652	NM	NM	0	0
Utah	1,779	1,799	-1.2%	131	131	1,641	1,662	6	6	0	0
Wyoming	2,338	2,396	-2.4%	1,043	1,105	1,296	1,291	0	0	0	0
Pacific Contiguous	40,667	37,138	9.5%	4,392	4,022	34,453	31,390	487	497	1,335	1,228
California	30,315	28,112	7.8%	1,082	1,090	28,403	26,226	462	473	368	323
Oregon	5,027	4,031	24.7%	754	530	3,989	3,231	17	16	268	254
Washington	5,325	4,995	6.6%	2,556	2,403	2,062	1,933	9	8	699	651
Pacific Noncontiguous	832	796	4.4%	98	106	615	581	119	109	NM	NM
Alaska	113	107	4.9%	58	57	31	32	23	19	NM	NM
Hawaii	719	689	4.4%	40	49	584	549	95	90	0	0
U.S. Total	225,787	202,498	11.5%	25,897	24,438	183,569	162,118	1,617	1,596	14,704	14,347

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	-36	-31	14.9%	0	0	-36	-31	0	0	0	0
Connecticut	0	1	-50.6%	0	0	0	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-36	-32	13.5%	0	0	-36	-32	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	-119	-103	15.4%	-61	-42	-59	-62	0	0	0	0
New Jersey	-20	-12	66.2%	-20	-12	0	0	0	0	0	0
New York	-41	-30	37.4%	-41	-30	0	0	0	0	0	0
Pennsylvania	-59	-62	-5.0%	0	0	-59	-62	0	0	0	0
East North Central	-55	-67	-18.0%	-55	-67	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	-55	-67	-18.0%	-55	-67	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	-8	19	-143.7%	-8	19	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	-8	19	-143.7%	-8	19	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	-251	-328	-23.5%	-251	-328	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	-29	-91	-68.1%	-29	-91	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	-80	-97	-17.0%	-80	-97	0	0	0	0	0	0
Virginia	-142	-140	1.0%	-142	-140	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-65	-58	12.5%	-65	-58	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	-65	-58	12.5%	-65	-58	0	0	0	0	0	0
West South Central	-11	-12	-3.8%	-11	-12	0	0	0	0	0	0
Arkansas	1	0	NM	1	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-12	4.7%	-12	-12	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1	-25	-102.1%	1	-25	0	0	0	0	0	0
Arizona	26	4	615.8%	26	4	0	0	0	0	0	0
Colorado	-25	-29	-11.5%	-25	-29	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	113	38	193.7%	113	38	0	0	0	0	0	0
California	110	38	188.2%	110	38	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	0	NM	2	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	-433	-568	-23.6%	-339	-474	-95	-93	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 June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	-208	-201	3.4%	0	0	-208	-201	0	0	0	0
Connecticut	-4	-4	-9.8%	0	0	-4	-4	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-204	-197	3.7%	0	0	-204	-197	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	-565	-545	3.6%	-272	-263	-293	-282	0	0	0	0
New Jersey	-70	-74	-5.0%	-70	-74	0	0	0	0	0	0
New York	-202	-189	6.6%	-202	-189	0	0	0	0	0	0
Pennsylvania	-293	-282	3.9%	0	0	-293	-282	0	0	0	0
East North Central	-299	-290	2.9%	-299	-290	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	-299	-290	2.9%	-299	-290	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	36	78	-53.3%	36	78	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	36	78	-53.3%	36	78	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	-1,031	-1,570	-34.3%	-1,031	-1,570	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	-212	-611	-65.4%	-212	-611	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	-218	-476	-54.3%	-218	-476	0	0	0	0	0	0
Virginia	-602	-483	24.7%	-602	-483	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-287	-282	1.6%	-287	-282	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	-287	-282	1.6%	-287	-282	0	0	0	0	0	0
West South Central	-33	-39	-16.5%	-33	-39	0	0	0	0	0	0
Arkansas	28	16	79.7%	28	16	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-61	-55	11.0%	-61	-55	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-156	-200	-22.3%	-156	-200	0	0	0	0	0	0
Arizona	-5	-42	-88.2%	-5	-42	0	0	0	0	0	0
Colorado	-151	-158	-4.9%	-151	-158	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-11	157	-107.0%	-11	157	0	0	0	0	0	0
California	-38	155	-124.3%	-38	155	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	27	3	925.1%	27	3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-2,553	-2,894	-11.8%	-2,052	-2,410	-501	-483	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	151	161	-5.9%	0	0	135	143	6	7	11	10
Connecticut	41	47	-13.4%	0	0	41	47	0	0	0	0
Maine	33	34	-1.7%	0	0	17	17	6	7	11	10
Massachusetts	73	75	-3.3%	0	0	73	75	0	0	0	0
New Hampshire	4	4	-0.2%	0	0	4	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	186	193	-4.1%	0	0	146	150	39	38	0	5
New Jersey	44	41	8.9%	0	0	34	25	10	11	0	5
New York	77	79	-2.4%	0	0	58	60	19	20	0	0
Pennsylvania	64	74	-13.0%	0	0	54	66	10	7	0	0
East North Central	77	80	-3.5%	1	1	9	7	12	13	54	59
Illinois	21	23	-7.7%	0	0	-1	-2	0	0	23	25
Indiana	28	31	-7.4%	0	0	0	0	2	2	27	29
Michigan	23	22	3.1%	0	0	11	9	10	12	2	2
Ohio	0	0	-325.6%	0	0	0	-1	0	0	1	1
Wisconsin	NM	5	NM	2	1	0	0	0	0	NM	3
West North Central	40	39	3.3%	20	18	12	14	NM	3	5	4
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	-5.2%	0	0	0	0	0	0	0	0
Minnesota	36	35	2.8%	17	15	12	14	NM	3	4	3
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	NM	NM	4	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	364	360	1.1%	0	0	225	178	14	16	126	166
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	245	263	-6.8%	0	0	135	125	0	0	110	138
Georgia	10	8	21.2%	0	0	0	0	0	0	10	8
Maryland	32	27	18.8%	0	0	32	27	0	0	0	0
North Carolina	30	42	-28.2%	0	0	28	26	0	0	3	17
South Carolina	4	4	-4.4%	0	0	1	1	0	0	3	3
Virginia	44	16	164.4%	0	0	30	0	14	16	0	0
West Virginia	-1	-1	-13.9%	0	0	-1	-1	0	0	0	0
East South Central	8	7	21.4%	7	4	0	0	0	0	NM	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	4	61.0%	7	4	0	0	0	0	0	0
Mississippi	0	0	-100.0%	0	0	0	0	0	0	0	0
Tennessee	NM	2	NM	0	0	0	0	0	0	NM	2
West South Central	105	107	-2.2%	0	0	10	8	0	0	95	99
Arkansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Louisiana	71	55	27.6%	0	0	0	0	0	0	71	55
Oklahoma	5	5	5.8%	0	0	4	5	0	0	1	0
Texas	27	46	-40.5%	0	0	5	3	0	0	22	43
Mountain	57	45	26.4%	2	2	27	28	0	0	27	14
Arizona	0	0	376.6%	0	0	0	0	0	0	0	0
Colorado	5	5	10.4%	0	0	2	1	0	0	3	4
Idaho	1	1	-27.0%	0	0	0	0	0	0	1	1
Montana	26	27	-5.3%	0	0	26	27	0	0	0	0
Nevada	2	2	-5.8%	2	2	0	0	0	0	0	0
New Mexico	0	0	-142.1%	0	0	0	0	0	0	0	0
Utah	15	10	61.9%	0	0	0	0	0	0	15	10
Wyoming	8	0	--	0	0	0	0	0	0	8	0
Pacific Contiguous	88	80	10.1%	0	0	24	21	0	0	64	59
California	79	78	1.1%	0	0	15	19	0	0	64	59
Oregon	4	2	123.8%	0	0	4	2	0	0	0	0
Washington	6	1	848.6%	0	0	6	1	0	0	0	0
Pacific Noncontiguous	35	24	42.0%	16	13	0	0	19	12	0	0
Alaska	0	0	-18.1%	0	0	0	0	0	0	0	0
Hawaii	35	25	41.4%	16	13	0	0	19	12	0	0
U.S. Total	1,110	1,096	1.3%	47	38	588	549	93	90	382	419

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	850	904	-5.9%	0	0	752	794	34	41	65	68
Connecticut	219	268	-18.2%	0	0	219	268	0	0	0	0
Maine	186	199	-6.9%	0	0	87	90	34	41	65	68
Massachusetts	422	412	2.4%	0	0	422	412	0	0	0	0
New Hampshire	24	24	-2.9%	0	0	24	24	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	1,087	1,117	-2.7%	0	0	861	864	220	218	6	35
New Jersey	276	278	-0.9%	0	0	196	172	74	72	6	35
New York	428	426	0.4%	0	0	327	325	101	101	0	0
Pennsylvania	383	413	-7.0%	0	0	338	367	46	45	0	0
East North Central	427	410	4.3%	8	7	57	35	69	73	294	295
Illinois	126	111	13.1%	0	0	-8	-13	0	0	134	124
Indiana	134	150	-10.6%	0	0	0	0	10	10	124	140
Michigan	132	122	7.7%	0	0	65	51	59	64	8	8
Ohio	5	0	NM	-1	-2	0	-3	0	0	7	5
Wisconsin	30	26	16.9%	9	8	0	0	0	0	21	17
West North Central	223	220	1.4%	107	98	67	77	16	16	32	28
Iowa	0	2	-100.0%	0	0	0	0	0	0	0	2
Kansas	3	2	13.1%	0	0	0	0	0	0	3	2
Minnesota	199	194	2.6%	85	77	67	77	16	16	30	23
Missouri	1	1	-13.1%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	21	21	1.6%	21	21	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,253	2,157	4.5%	0	0	1,250	1,073	77	92	926	991
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	1,502	1,569	-4.3%	0	0	771	773	0	0	731	795
Georgia	53	47	11.2%	0	0	0	0	0	0	53	47
Maryland	163	151	7.7%	0	0	163	151	0	0	0	0
North Carolina	286	254	12.7%	0	0	159	125	0	0	127	129
South Carolina	18	23	-19.8%	0	0	3	3	0	0	15	20
Virginia	238	120	98.7%	0	0	160	27	77	92	0	0
West Virginia	-6	-7	-8.6%	0	0	-6	-7	0	0	0	0
East South Central	31	29	8.0%	26	15	0	0	0	0	5	13
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	26	15	66.3%	26	15	0	0	0	0	0	0
Mississippi	0	2	-100.0%	0	0	0	0	0	0	0	2
Tennessee	5	11	-54.0%	0	0	0	0	0	0	5	11
West South Central	557	553	0.7%	0	0	66	53	0	0	491	500
Arkansas	4	3	29.6%	0	0	0	0	0	0	4	3
Louisiana	338	272	24.3%	0	0	0	0	0	0	338	272
Oklahoma	26	18	46.6%	0	0	24	20	0	0	2	-2
Texas	189	261	-27.5%	0	0	42	33	0	0	147	227
Mountain	359	320	12.3%	14	16	163	173	0	0	182	132
Arizona	-1	0	130.7%	0	0	-1	0	0	0	0	0
Colorado	31	28	9.6%	0	0	11	8	0	0	20	20
Idaho	33	29	13.0%	0	0	0	0	0	0	33	29
Montana	153	164	-7.1%	0	0	153	164	0	0	0	0
Nevada	14	16	-10.2%	14	16	0	0	0	0	0	0
New Mexico	0	0	-49.0%	0	0	0	0	0	0	0	0
Utah	86	61	40.7%	0	0	0	0	0	0	86	61
Wyoming	43	22	98.1%	0	0	0	0	0	0	43	22
Pacific Contiguous	481	469	2.4%	0	-2	140	137	0	0	340	335
California	431	427	0.9%	0	-2	90	94	0	0	340	335
Oregon	20	18	13.2%	0	0	21	18	0	0	0	0
Washington	30	25	20.5%	0	0	30	25	0	0	0	0
Pacific Noncontiguous	179	170	4.8%	87	81	0	2	92	87	0	0
Alaska	-1	-1	-23.2%	-1	-1	0	0	0	0	0	0
Hawaii	180	172	4.6%	88	83	0	2	92	87	0	0
U.S. Total	6,447	6,348	1.6%	242	215	3,356	3,209	509	528	2,341	2,396

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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, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	273	275	-0.6%	NM	19	253	254	NM	2	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	177	179	-1.1%	0	0	177	179	0	0	0	0
Massachusetts	18	19	-2.7%	NM	NM	NM	12	NM	1	0	0
New Hampshire	36	38	-3.6%	0	0	36	38	0	0	0	0
Rhode Island	11	14	-22.8%	0	0	10	13	0	1	0	0
Vermont	30	25	21.9%	NM	15	16	10	0	0	0	0
Middle Atlantic	610	656	-6.9%	0	0	610	656	NM	0	0	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	333	367	-9.3%	0	0	333	367	NM	0	0	0
Pennsylvania	276	287	-3.8%	0	0	276	287	0	0	0	0
East North Central	1,834	1,915	-4.2%	231	236	1,597	1,674	NM	NM	NM	NM
Illinois	827	910	-9.1%	NM	NM	826	909	NM	NM	0	0
Indiana	362	355	2.2%	0	0	362	355	0	0	0	0
Michigan	396	398	-0.6%	147	150	249	249	0	0	0	0
Ohio	99	124	-20.4%	NM	NM	92	118	0	0	NM	NM
Wisconsin	151	129	17.0%	82	85	68	44	0	0	0	1
West North Central	5,968	5,426	10.0%	1,816	1,773	4,148	3,649	NM	NM	0	0
Iowa	1,620	1,598	1.4%	1,058	1,033	562	565	0	0	0	0
Kansas	1,894	1,468	29.0%	190	148	1,702	1,318	NM	NM	0	0
Minnesota	871	804	8.4%	190	187	680	614	NM	NM	0	0
Missouri	243	151	61.4%	0	0	243	151	0	0	0	0
Nebraska	387	357	8.3%	NM	15	370	342	0	0	0	0
North Dakota	751	832	-9.7%	300	323	451	509	0	0	0	0
South Dakota	201	217	-7.1%	61	66	140	151	0	0	0	0
South Atlantic	190	216	-12.4%	0	0	189	216	0	0	0	0
Delaware	0	0	49.4%	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	40	42	-4.8%	0	0	40	42	0	0	0	0
North Carolina	22	35	-37.7%	0	0	22	35	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	128	140	-8.5%	0	0	128	140	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	10,286	6,821	50.8%	174	131	10,103	6,687	5	3	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,795	1,908	46.5%	149	112	2,646	1,796	0	0	0	0
Texas	7,491	4,914	52.5%	26	19	7,457	4,891	5	3	NM	0
Mountain	2,298	1,881	22.2%	201	192	2,096	1,688	NM	NM	0	0
Arizona	60	45	32.5%	0	0	60	45	0	0	0	0
Colorado	879	673	30.7%	31	24	847	648	NM	NM	0	0
Idaho	199	208	-4.3%	NM	0	186	208	0	0	0	0
Montana	159	162	-2.2%	NM	17	143	145	0	0	0	0
Nevada	37	27	32.9%	0	0	37	27	0	0	0	0
New Mexico	545	347	57.2%	0	0	545	346	NM	NM	0	0
Utah	98	78	25.9%	0	0	98	78	0	0	0	0
Wyoming	323	341	-5.4%	142	152	181	190	0	0	0	0
Pacific Contiguous	2,869	2,455	16.8%	566	560	2,302	1,894	0	0	1	1
California	1,511	1,116	35.4%	94	95	1,416	1,020	0	0	1	1
Oregon	756	699	8.1%	161	128	595	571	0	0	0	0
Washington	602	641	-6.1%	311	338	291	303	0	0	0	0
Pacific Noncontiguous	77	61	25.7%	NM	9	69	53	0	0	0	0
Alaska	NM	13	NM	NM	9	NM	NM	0	0	0	0
Hawaii	65	48	34.0%	0	0	65	48	0	0	0	0
U.S. Total	24,411	19,711	23.8%	3,015	2,920	21,371	16,774	13	11	NM	6

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	1,975	1,756	12.5%	128	120	1,828	1,620	17	16	2	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,301	1,182	10.0%	0	0	1,301	1,182	0	0	0	0
Massachusetts	127	119	7.3%	31	31	82	76	13	12	2	0
New Hampshire	246	222	11.0%	0	0	246	222	0	0	0	0
Rhode Island	87	80	8.9%	0	0	83	76	4	4	0	0
Vermont	206	147	40.3%	97	89	109	57	0	0	0	0
Middle Atlantic	4,263	3,973	7.3%	0	0	4,259	3,973	NM	0	2	1
New Jersey	12	NM	NM	0	0	12	NM	0	0	0	0
New York	2,322	2,137	8.6%	0	0	2,318	2,136	NM	0	2	1
Pennsylvania	1,930	1,826	5.7%	0	0	1,930	1,826	0	0	0	0
East North Central	14,469	13,066	10.7%	1,598	1,528	12,825	11,502	NM	NM	41	31
Illinois	6,650	6,247	6.5%	7	6	6,641	6,238	NM	NM	0	0
Indiana	2,993	2,457	21.8%	0	0	2,993	2,457	0	1	0	0
Michigan	2,850	2,703	5.4%	1,036	1,035	1,814	1,669	0	0	0	0
Ohio	939	898	4.6%	NM	NM	893	865	2	2	37	26
Wisconsin	1,036	760	36.4%	548	483	485	273	0	0	4	4
West North Central	39,874	38,189	4.4%	12,631	12,836	27,218	25,328	24	25	0	0
Iowa	11,530	11,359	1.5%	7,388	7,398	4,140	3,959	2	2	0	0
Kansas	10,698	9,783	9.4%	1,073	877	9,617	8,898	NM	NM	0	0
Minnesota	6,121	5,862	4.4%	1,338	1,421	4,769	4,425	15	15	0	0
Missouri	1,589	934	70.1%	0	0	1,589	934	0	0	0	0
Nebraska	2,761	2,798	-1.3%	96	98	2,665	2,700	0	0	0	0
North Dakota	5,631	5,715	-1.5%	2,259	2,491	3,372	3,224	0	0	0	0
South Dakota	1,543	1,739	-11.2%	476	551	1,067	1,187	0	0	0	0
South Atlantic	1,567	1,426	9.9%	0	0	1,564	1,423	3	3	0	0
Delaware	3	3	3.4%	0	0	0	0	3	3	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	281	277	1.3%	0	0	281	277	0	0	0	0
North Carolina	311	262	18.8%	0	0	311	262	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	972	884	9.9%	0	0	972	884	0	0	0	0
East South Central	25	15	71.8%	0	0	25	15	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	25	15	71.8%	0	0	25	15	0	0	0	0
West South Central	58,626	49,807	17.7%	937	960	57,655	48,826	28	21	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	16,073	13,146	22.3%	788	819	15,285	12,328	0	0	0	0
Texas	42,553	36,661	16.1%	148	141	42,370	36,498	28	21	NM	0
Mountain	14,670	13,308	10.2%	1,411	1,401	13,252	11,900	NM	NM	2	2
Arizona	335	339	-1.1%	0	0	335	339	0	0	0	0
Colorado	5,366	5,135	4.5%	179	171	5,182	4,958	NM	NM	2	2
Idaho	1,384	1,327	4.3%	73	0	1,311	1,327	0	0	0	0
Montana	1,146	1,175	-2.5%	117	124	1,029	1,051	0	0	0	0
Nevada	207	206	0.4%	0	0	207	206	0	0	0	0
New Mexico	3,419	2,203	55.2%	0	0	3,417	2,201	NM	NM	0	0
Utah	476	527	-9.8%	0	0	476	527	0	0	0	0
Wyoming	2,338	2,396	-2.4%	1,043	1,105	1,296	1,291	0	0	0	0
Pacific Contiguous	16,687	15,230	9.6%	3,385	3,010	13,297	12,214	3	4	2	3
California	8,235	7,889	4.4%	346	374	7,883	7,509	3	4	2	3
Oregon	4,132	3,321	24.4%	719	494	3,413	2,827	0	0	0	0
Washington	4,320	4,020	7.5%	2,319	2,142	2,001	1,878	0	0	0	0
Pacific Noncontiguous	461	445	3.7%	58	57	403	388	0	0	0	0
Alaska	89	89	1.0%	58	57	31	32	0	0	0	0
Hawaii	372	356	4.3%	0	0	372	356	0	0	0	0
U.S. Total	152,617	137,215	11.2%	20,148	19,912	132,328	117,189	86	79	55	36

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	572	658	-13.1%	35	52	433	503	10	15	94	89
Connecticut	64	75	-14.2%	0	0	64	75	0	0	0	0
Maine	233	250	-6.9%	0	0	133	153	6	8	94	89
Massachusetts	102	108	-5.6%	0	0	99	105	3	3	0	0
New Hampshire	131	169	-22.7%	23	30	107	135	1	4	0	0
Rhode Island	17	18	-2.7%	0	0	17	18	0	0	0	0
Vermont	25	39	-34.6%	12	21	13	17	0	0	0	0
Middle Atlantic	446	473	-5.6%	0	0	354	364	46	45	47	64
New Jersey	79	70	11.9%	0	0	67	58	12	13	0	0
New York	196	197	-0.3%	0	0	159	160	20	21	16	16
Pennsylvania	172	206	-16.7%	0	0	128	147	14	12	30	48
East North Central	481	480	0.3%	71	58	260	270	17	18	133	134
Illinois	32	40	-20.9%	1	1	31	39	0	0	0	0
Indiana	36	36	-0.4%	23	23	4	4	2	2	6	7
Michigan	214	218	-2.1%	0	0	147	150	11	12	57	57
Ohio	57	57	-0.1%	0	0	37	36	1	1	19	20
Wisconsin	142	127	11.6%	47	33	42	41	3	3	51	50
West North Central	220	220	-0.1%	49	48	93	96	14	12	64	64
Iowa	19	14	39.8%	NM	NM	10	5	4	3	3	4
Kansas	5	5	4.3%	0	0	5	5	0	0	0	0
Minnesota	175	181	-3.2%	39	36	74	82	2	2	60	60
Missouri	12	13	-5.4%	NM	3	4	4	6	6	0	0
Nebraska	8	8	6.9%	7	6	0	0	2	1	0	0
North Dakota	0	0	46.9%	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,702	1,591	7.0%	235	165	538	515	26	24	903	888
Delaware	5	5	-0.5%	0	0	4	4	0	0	NM	NM
District of Columbia	4	2	114.6%	0	0	0	2	4	0	0	0
Florida	427	372	15.0%	62	6	208	199	3	4	154	163
Georgia	396	374	6.0%	0	0	54	60	0	0	342	314
Maryland	51	42	20.3%	0	0	40	35	2	NM	9	7
North Carolina	209	222	-5.7%	0	0	98	105	NM	NM	110	116
South Carolina	224	235	-4.9%	36	38	34	42	0	0	154	155
Virginia	385	339	13.6%	138	120	100	68	15	18	133	133
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	536	529	1.4%	7	7	32	31	0	0	497	491
Alabama	291	280	3.8%	0	0	23	23	0	0	268	258
Kentucky	37	37	1.9%	7	7	1	0	0	0	29	29
Mississippi	124	135	-7.7%	0	0	NM	NM	0	0	123	134
Tennessee	84	78	7.9%	0	0	7	7	0	0	77	71
West South Central	547	498	9.9%	0	0	89	75	3	3	455	419
Arkansas	122	126	-3.3%	0	0	9	9	1	1	112	116
Louisiana	247	228	8.4%	0	0	7	7	0	0	240	221
Oklahoma	28	8	252.6%	0	0	NM	NM	0	0	27	7
Texas	150	136	10.4%	0	0	72	59	2	3	76	75
Mountain	93	95	-2.2%	NM	NM	55	59	2	2	35	34
Arizona	18	22	-20.6%	0	0	18	22	0	0	0	0
Colorado	14	13	9.1%	0	0	14	13	0	0	0	0
Idaho	47	46	3.3%	NM	NM	12	12	1	1	33	32
Montana	2	2	5.0%	0	0	0	0	0	0	2	2
Nevada	5	5	-4.1%	0	0	5	5	0	0	0	0
New Mexico	1	1	-60.0%	0	0	1	1	0	0	0	0
Utah	7	6	12.5%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	729	755	-3.4%	39	59	417	411	63	69	211	216
California	492	503	-2.1%	6	8	369	373	59	65	59	57
Oregon	90	85	5.6%	5	5	37	33	3	3	45	45
Washington	147	167	-11.7%	28	46	11	5	NM	NM	107	114
Pacific Noncontiguous	25	21	20.6%	2	5	0	0	23	16	NM	NM
Alaska	4	4	-0.3%	0	0	0	0	4	4	NM	NM
Hawaii	22	17	25.4%	2	5	0	0	20	12	0	0
U.S. Total	5,353	5,320	0.6%	439	394	2,271	2,323	205	205	2,439	2,398

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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 June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	3,372	3,623	-6.9%	229	266	2,516	2,714	70	80	557	564
Connecticut	353	414	-14.8%	0	0	353	414	0	0	0	0
Maine	1,376	1,452	-5.2%	0	0	784	843	36	45	557	564
Massachusetts	590	590	0.1%	0	0	576	575	14	14	0	0
New Hampshire	753	853	-11.6%	108	139	627	694	19	19	0	0
Rhode Island	100	101	-1.6%	0	0	100	101	0	0	0	0
Vermont	200	214	-6.5%	122	126	77	86	1	1	0	0
Middle Atlantic	2,749	2,793	-1.6%	0	0	2,094	2,112	268	267	387	414
New Jersey	483	448	7.9%	0	0	397	363	86	85	0	0
New York	1,117	1,107	0.9%	0	0	914	902	107	108	96	97
Pennsylvania	1,148	1,238	-7.3%	0	0	783	847	74	74	291	317
East North Central	2,894	2,893	0.0%	402	381	1,582	1,629	104	108	807	775
Illinois	220	248	-11.2%	10	11	211	237	0	0	0	0
Indiana	218	217	0.3%	141	141	25	25	11	10	41	42
Michigan	1,270	1,266	0.3%	0	0	865	885	61	66	343	315
Ohio	346	359	-3.5%	NM	NM	229	233	3	4	112	120
Wisconsin	840	803	4.7%	249	227	252	249	28	28	311	299
West North Central	1,222	1,224	-0.2%	278	270	517	532	70	71	357	352
Iowa	112	81	38.8%	11	11	62	29	25	20	14	21
Kansas	29	28	1.5%	0	0	29	28	0	0	0	0
Minnesota	963	991	-2.8%	210	201	402	452	13	11	337	327
Missouri	67	74	-9.6%	18	19	23	23	24	30	2	2
Nebraska	47	48	-2.1%	40	38	0	0	7	10	0	0
North Dakota	4	3	53.0%	0	0	0	0	0	0	4	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,193	9,764	4.4%	1,184	992	3,392	3,272	136	138	5,480	5,362
Delaware	33	33	-0.7%	0	0	25	25	0	0	7	8
District of Columbia	30	23	27.0%	0	0	20	23	9	0	0	0
Florida	2,603	2,541	2.4%	200	43	1,351	1,441	24	24	1,029	1,034
Georgia	2,472	2,305	7.2%	0	0	399	322	0	0	2,073	1,983
Maryland	276	258	6.8%	0	0	210	198	10	7	55	53
North Carolina	1,314	1,250	5.1%	0	0	619	614	5	5	689	630
South Carolina	1,316	1,344	-2.1%	229	223	192	209	0	0	895	912
Virginia	2,150	2,010	7.0%	756	726	576	439	87	102	732	742
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,078	3,086	-0.3%	45	45	186	184	0	0	2,847	2,857
Alabama	1,671	1,662	0.6%	0	0	137	135	0	0	1,534	1,527
Kentucky	223	217	2.8%	45	45	3	4	0	0	176	169
Mississippi	717	740	-3.1%	0	0	5	5	0	0	712	736
Tennessee	466	467	-0.1%	0	0	41	41	0	0	425	426
West South Central	3,131	3,014	3.9%	0	0	453	429	19	20	2,659	2,565
Arkansas	761	730	4.3%	0	0	58	56	3	3	701	671
Louisiana	1,386	1,377	0.7%	0	0	41	41	0	0	1,345	1,336
Oklahoma	173	120	44.0%	0	0	8	7	0	0	166	113
Texas	810	787	3.0%	0	0	346	325	16	17	448	445
Mountain	544	536	1.4%	6	6	324	335	11	12	203	184
Arizona	104	115	-9.4%	0	0	104	115	0	0	0	0
Colorado	81	84	-3.0%	0	0	81	84	0	0	0	0
Idaho	272	251	8.7%	6	6	69	65	5	5	193	174
Montana	10	10	-1.1%	0	0	0	0	0	0	10	10
Nevada	30	30	-0.9%	0	0	30	30	0	0	0	0
New Mexico	8	9	-9.4%	0	0	8	9	0	0	0	0
Utah	38	38	0.4%	0	0	32	32	6	6	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,415	4,400	0.3%	322	366	2,377	2,388	405	430	1,310	1,217
California	2,884	2,922	-1.3%	55	74	2,106	2,130	380	405	343	312
Oregon	527	504	4.5%	31	31	211	203	17	16	268	254
Washington	1,005	975	3.1%	236	261	60	55	9	8	699	651
Pacific Noncontiguous	141	137	3.0%	22	27	0	0	119	109	NM	NM
Alaska	23	19	23.3%	0	0	0	0	23	19	NM	NM
Hawaii	117	118	-0.3%	22	27	0	0	95	90	0	0
U.S. Total	31,738	31,471	0.8%	2,488	2,351	13,441	13,594	1,201	1,235	14,607	14,291

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	327	293	11.7%	22	20	305	273	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	5	6.1%	0	0	6	5	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	282	251	12.1%	0	0	282	251	0	0	0	0
New Mexico	1	1	6.9%	0	0	1	1	0	0	0	0
Utah	39	35	10.3%	22	20	16	15	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	987	952	3.7%	67	66	920	886	0	0	0	0
California	971	938	3.5%	67	66	904	872	0	0	0	0
Oregon	16	14	13.4%	0	0	16	14	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	21	20	7.7%	0	0	21	20	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	21	20	7.7%	0	0	21	20	0	0	0	0
U.S. Total	1,336	1,265	5.6%	90	86	1,246	1,178	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	2,033	1,921	5.9%	131	131	1,902	1,789	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	34	33	0.2%	0	0	34	33	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,766	1,651	6.9%	0	0	1,766	1,651	0	0	0	0
New Mexico	6	8	-20.3%	0	0	6	8	0	0	0	0
Utah	228	228	-0.2%	131	131	96	97	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,859	5,892	-0.6%	382	391	5,477	5,502	0	0	0	0
California	5,765	5,797	-0.5%	382	389	5,383	5,408	0	0	0	0
Oregon	94	96	-2.2%	0	2	94	94	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	125	125	0.0%	0	0	125	125	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	125	125	0.0%	0	0	125	125	0	0	0	0
U.S. Total	8,017	7,938	1.0%	513	522	7,503	7,416	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	505	382	32.1%	215	150	290	233	10	9	204	140	NM	NM	NM	NM	152	123	NM	11	NM	0	12	11	126	99
Connecticut	66	50	32.1%	14	7	52	43	0	0	14	6	NM	16	NM	0	20	16	NM	2	NM	0	3	2	29	26
Maine	NM	5	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	4	3
Massachusetts	372	283	31.5%	175	125	197	158	NM	NM	171	121	NM	NM	NM	NM	117	96	9	8	0	0	9	8	72	54
New Hampshire	11	9	23.9%	0	0	11	9	0	0	0	0	3	3	0	0	3	3	1	1	0	0	1	1	7	6
Rhode Island	14	8	79.8%	5	NM	9	6	0	0	5	NM	5	3	0	0	5	3	0	0	0	0	0	0	4	3
Vermont	34	27	25.7%	20	15	15	12	6	6	13	9	5	4	0	0	5	4	NM	NM	0	0	NM	NM	9	8
Middle Atlantic	669	526	27.3%	246	181	423	345	14	12	200	144	216	173	28	22	188	151	NM	NM	NM	NM	21	18	214	176
New Jersey	395	321	23.0%	185	144	209	177	14	12	144	111	129	111	26	21	104	90	NM	NM	NM	NM	13	10	93	77
New York	214	155	38.5%	46	25	168	129	0	0	45	25	NM	NM	NM	NM	68	46	2	1	0	0	2	1	98	82
Pennsylvania	60	50	20.0%	15	11	45	39	0	0	11	9	NM	NM	NM	NM	16	15	NM	NM	NM	NM	6	6	23	18
East North Central	155	122	27.0%	101	82	54	40	33	28	66	53	NM	NM	NM	NM	33	25	3	2	0	0	3	2	18	13
Illinois	17	13	28.6%	7	7	10	6	0	0	7	7	NM	4	NM	0	6	4	0	NM	0	0	0	NM	3	2
Indiana	62	46	36.3%	52	43	10	3	18	14	34	28	7	1	0	0	7	1	0	0	0	0	0	0	3	2
Michigan	25	22	12.2%	16	13	9	10	13	13	NM	0	5	6	0	0	5	6	NM	0	0	0	NM	0	4	3
Ohio	37	30	21.5%	20	15	17	15	NM	NM	18	14	NM	NM	NM	NM	12	11	NM	1	0	0	NM	1	4	3
Wisconsin	14	11	31.7%	6	NM	8	6	0	0	5	NM	NM	2	NM	0	3	2	1	1	0	0	1	1	3	3
West North Central	230	138	66.5%	181	99	49	39	NM	NM	178	97	25	20	0	0	25	20	2	1	0	0	2	1	22	18
Iowa	NM	10	NM	NM	NM	13	9	NM	NM	NM	0	8	6	0	0	8	6	0	0	0	0	0	0	4	3
Kansas	NM	2	NM	NM	0	3	2	NM	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	169	96	76.6%	160	89	9	6	NM	NM	159	89	3	2	0	0	3	2	1	0	0	0	1	0	4	3
Missouri	37	27	37.2%	14	6	23	21	1	0	13	6	12	11	0	0	12	11	0	0	0	0	0	0	11	10
Nebraska	NM	3	NM	NM	NM	1	1	0	0	NM	NM	NM	0	0	0	NM	0	0	0	0	0	0	0	1	0
North Dakota	0	0	0.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	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	1,814	1,247	45.5%	1,586	1,059	229	189	298	142	1,267	900	85	74	20	17	65	57	NM	24	NM	0	29	24	135	108
Delaware	20	17	14.7%	9	7	11	10	NM	NM	7	NM	NM	NM	NM	NM	3	3	1	1	0	0	1	1	7	7
District of Columbia	7	5	37.0%	0	0	7	5	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	3	2
Florida	259	93	178.4%	222	67	37	26	177	50	44	17	NM	NM	NM	NM	9	8	NM	1	NM	0	1	1	27	17
Georgia	NM	259	NM	258	237	NM	21	36	28	222	209	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	2
Maryland	148	124	19.0%	56	39	92	85	NM	NM	53	37	NM	NM	NM	NM	24	21	4	3	0	0	4	3	64	60
North Carolina	887	681	30.3%	866	661	21	20	58	46	791	599	28	28	17	15	12	13	1	1	0	0	1	1	9	7
South Carolina	95	24	300.2%	71	10	25	14	0	0	71	10	6	4	0	0	6	4	2	1	0	0	2	1	16	9
Virginia	114	44	160.3%	105	37	9	6	25	16	80	22	3	2	0	0	3	2	0	0	0	0	0	0	6	4
West Virginia	1	1	19.7%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	126	58	115.5%	111	45	15	14	11	5	99	39	NM	NM	NM	NM	10	10	NM	0	NM	0	NM	0	5	4
Alabama	NM	23	NM	45	22	NM	NM	NM	NM	40	20	1	1	0	0	1	1	0	0	0	0	0	0	NM	NM
Kentucky	10	5	93.9%	6	2	3	3	6	2	NM	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Mississippi	36	4	813.0%	35	NM	1	1	0	0	35	NM	NM	1	0	0	NM	1	NM	NM	0	0	NM	NM	0	0
Tennessee	34	26	28.3%	24	17	9	9	0	0	23	16	NM	NM	NM	NM	7	7	NM	0	NM	0	NM	0	3	2
West South Central	558	347	61.1%	440	254	118	93	9	6	431	247	32	24	0	0	32	23	NM	0	0	0	NM	0	86	69
Arkansas	25	4	493.4%	23	3	2	1	NM	NM	23	3	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Louisiana	NM	20	NM	NM	0	22	20	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	21	19
Oklahoma	9	6	48.1%	8	NM	1	1	8	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Texas	502	316	58.8%	409	246	93	71	NM	NM	408	245	30	22	0	0	29	22	0	0	0	0	0	0	64	49
Mountain	1,974	1,737	13.7%	1,571	1,410	403	327	135	108	1,421	1,289	130	104	15	13	115	91	8	17	0	0	8	16	280	219
Arizona	724	641	13.0%	502	463	222	177	98	73	401	388	NM	NM	NM	NM	65	46	3	13	0	0	3	13	154	119
Colorado	186	165	12.9%	126	110	60	55	NM	NM	122	107	NM	NM	NM	NM	22	21	0	0	0	0	0	0	38	33
Idaho	69	65	5.6%	66	64	3	2	0	0	66	64	1	0	0	0	1	0	0	0	0	0	0	0	3	1
Montana	NM	4	NM	NM	NM	2	2	0	0	NM	NM	NM	0	0	0	NM	0	0	0	0	0	0	0	1	1
Nevada	540	448	20.4%	490	406	50	43	5	5	475	392	19	18	10	8	10	10	4	3	0	0	3	2	37	31
New Mexico	174	151	15.8%	149	132	25	19	31	30	118	102	9	7	0	0	9	7	0	0	0	0	0	0	16	12
Utah	274	263	4.2%	235	234	40	29	0	0	235	234	8	6	0	0	8	6	1	1	0	0	1	1	31	22
Wyoming	NM	0	NM	0	0	NM	0	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	0	0
Pacific Contiguous	4,210	3,620	16.3%	2,823	2,487	1,387	1,134	74	64	2,723	2,402	356	264	20	16	336	248	198	NM	6	NM	192	181	859	705
California	4,101	3,560	15.2%	2,755	2,461	1,346	1,099	73	63	2,656	2,377	344	252	20	16	323	236	196	NM	6	NM	190	179	832	684
Oregon	92	46	98.2%	68	26	24	21	NM	NM	67	25	10	9	0	0	10	9	2	2	0	0	2	2	12	10
Washington	18	14	29.1%	0	0	18	14	0	0	0	0	3	2	0	0	3	2	NM	0	0	0	NM	0	15	11
Pacific Noncontiguous	121	113	7.7%	23	21	98	91	4	4	20	17	39	34	0	0	39	34	0	0	0	0	0	0	59	57
Alaska	0	0	54.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	121	112	7.6%	23	21	98	91	4	4	20	17	39	34	0	0	39	34	0	0	0	0	0	0	59	57
U.S. Total	10,364	8,290	25.0%	7,298	5,788	3,066	2,503	590	380	6,610	5,329	1,082	852	87	71	995	781	278	262	11	8	267	254	1,803	1,468

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.
For June 2018 data, improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	2,244	1,675	33.9%	847	582	1,397	1,093	40	39	802	541	755	602	4	3	751	599	66	53	NM	0	65	53	580	441
Connecticut	304	228	33.3%	56	27	248	201	2	2	54	25	97	77	NM	0	97	77	13	11	NM	0	13	11	138	113
Maine	34	25	38.5%	7	NM	28	20	0	0	7	NM	9	7	0	0	9	7	0	0	0	0	0	0	18	13
Massachusetts	1,639	1,227	33.6%	685	479	954	748	11	10	671	466	585	474	3	3	581	470	48	38	0	0	47	38	325	239
New Hampshire	55	43	27.3%	0	0	55	43	0	0	0	0	16	13	0	0	16	13	4	3	0	0	4	3	35	27
Rhode Island	65	34	88.1%	20	9	45	25	0	0	20	9	23	12	0	0	23	12	0	0	0	0	0	0	21	13
Vermont	147	118	24.3%	79	63	68	55	28	27	51	36	25	19	0	0	25	19	1	1	0	0	1	1	42	35
Middle Atlantic	2,847	2,295	24.0%	896	698	1,950	1,597	53	46	731	556	981	814	101	86	880	728	115	100	11	10	104	90	966	780
New Jersey	1,668	1,388	20.2%	677	555	991	833	53	46	526	424	596	526	92	80	504	446	72	56	6	NM	66	51	421	336
New York	920	683	34.6%	168	100	752	583	0	0	165	97	306	213	NM	NM	303	210	9	7	0	0	9	7	440	366
Pennsylvania	259	224	15.5%	52	43	207	181	0	0	41	35	78	75	5	NM	73	72	35	37	6	NM	29	32	105	78
East North Central	655	477	37.3%	412	301	242	176	144	92	263	207	153	110	NM	NM	149	109	14	11	1	1	13	10	81	57
Illinois	74	52	41.6%	31	27	44	26	1	1	27	26	31	16	NM	0	28	16	0	0	0	0	0	0	15	10
Indiana	253	187	35.0%	208	173	45	14	79	60	128	113	29	6	0	0	29	6	1	1	0	0	1	1	14	7
Michigan	111	69	61.3%	71	26	41	43	57	26	14	0	21	27	0	0	21	27	1	0	0	0	1	0	19	16
Ohio	155	129	20.3%	79	63	76	66	6	NM	70	56	58	51	NM	NM	56	50	5	4	1	1	3	3	17	13
Wisconsin	61	39	56.2%	25	12	37	27	0	0	24	12	14	9	NM	0	14	9	7	6	0	0	7	6	16	12
West North Central	1,004	529	89.7%	777	346	228	183	14	6	762	339	116	95	1	1	115	95	8	5	0	0	8	5	105	84
Iowa	69	45	51.5%	9	NM	60	42	7	NM	NM	0	38	26	0	0	38	26	2	2	0	0	2	2	19	15
Kansas	16	9	79.3%	4	1	12	8	NM	0	NM	1	4	3	0	0	4	3	0	0	0	0	0	0	7	5
Minnesota	739	335	120.4%	700	308	39	28	NM	NM	697	305	14	11	0	0	14	11	5	2	0	0	5	2	20	14
Missouri	163	128	27.8%	51	25	112	102	2	1	48	24	57	54	1	1	56	54	1	1	0	0	1	1	55	48
Nebraska	16	11	51.4%	12	8	4	2	0	0	12	8	1	1	0	0	1	1	0	0	0	0	0	0	3	2
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	2	2	3.1%	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	8,056	5,365	50.2%	6,922	4,475	1,134	890	1,464	705	5,377	3,699	410	363	79	71	331	292	153	122	NM	0	151	122	652	477
Delaware	86	74	16.6%	33	28	54	46	NM	NM	27	24	17	15	NM	NM	16	14	3	3	0	0	3	3	35	29
District of Columbia	34	25	37.1%	0	0	34	25	0	0	0	0	21	14	0	0	21	14	0	0	0	0	0	0	14	11
Florida	1,357	508	167.1%	1,153	366	205	142	935	317	213	47	58	50	NM	NM	55	48	7	4	NM	0	5	4	145	89
Georgia	1,289	1,202	7.3%	1,152	1,091	137	111	161	143	989	946	18	17	NM	NM	16	15	111	88	0	0	111	88	9	8
Maryland	656	528	24.1%	220	163	435	365	5	NM	211	155	122	108	NM	NM	118	105	18	17	0	0	18	17	300	243
North Carolina	3,701	2,744	34.9%	3,598	2,639	104	105	218	170	3,311	2,406	127	131	69	63	58	68	3	4	0	0	3	4	42	33
South Carolina	420	88	377.0%	303	27	117	61	0	0	303	27	30	14	0	0	30	14	10	6	0	0	10	6	77	41
Virginia	507	191	165.1%	464	160	44	32	140	67	324	93	15	12	0	0	15	12	1	0	0	0	1	0	27	20
West Virginia	5	4	22.5%	0	0	5	4	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	3
East South Central	569	245	132.0%	496	179	73	66	48	17	441	160	52	49	NM	NM	49	46	6	1	NM	0	3	1	22	19
Alabama	199	98	104.5%	195	94	5	4	21	8	174	86	3	3	0	0	3	3	0	0	0	0	0	0	1	1
Kentucky	43	21	100.3%	28	9	15	12	27	9	NM	0	9	8	0	0	9	8	0	0	0	0	0	0	6	5
Mississippi	182	12	NM	174	7	8	5	0	0	174	7	4	3	0	0	4	3	2	0	0	0	2	0	2	2
Tennessee	145	115	26.2%	99	70	45	44	0	0	93	68	36	35	NM	NM	33	32	3	0	NM	0	0	0	12	12
West South Central	2,312	1,437	60.9%	1,729	1,005	583	432	39	19	1,689	985	155	108	1	1	154	107	1	0	0	0	1	0	428	325
Arkansas	112	20	467.1%	103	15	9	5	NM	NM	102	14	3	2	0	0	3	2	1	0	0	0	1	0	5	3
Louisiana	117	105	11.0%	NM	0	116	105	NM	0	0	0	7	4	0	0	7	4	0	0	0	0	0	0	109	101
Oklahoma	38	19	99.9%	33	16	5	3	33	16	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Texas	2,045	1,293	58.2%	1,592	974	453	319	NM	NM	1,588	972	143	101	1	1	143	100	0	0	0	0	0	0	311	218
Mountain	8,893	7,691	15.6%	6,945	6,085	1,948	1,606	576	450	6,309	5,582	580	516	58	52	522	464	87	91	1	1	86	89	1,341	1,052
Arizona	3,337	2,932	13.8%	2,270	2,042	1,066	889	418	303	1,840	1,728	280	249	12	11	269	238	64	71	0	0	64	71	734	580
Colorado	842	728	15.7%	544	465	299	263	NM	NM	531	455	122	114	10	9	111	105	1	1	0	0	1	1	186	156
Idaho	295	234	25.7%	281	227	14	7	0	0	281	227	2	2	0	0	2	2	0	0	0	0	0	0	11	5
Montana	29	13	126.3%	20	6	9	7	0	0	20	6	3	2	0	0	3	2	0	0	0	0	0	0	7	5
Nevada	2,392	1,987	20.3%	2,152	1,780	239	207	21	22	2,093	1,725	88	82	36	32	52	50	16	13	1	1	15	12	172	145
New Mexico	770	658	17.2%	641	559	129	98	133	125	508	434	45	38	0	0	45	38	0	0	0	0	0	0	84	60
Utah	1,226	1,137	7.8%	1,037	1,006	189	132	0	0	1,037	1,006	38	30	0	0	38	30	4	4	0	0	4	4	147	98
Wyoming	3	2	40.2%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Pacific Contiguous	18,984	15,651	21.3%	12,429	10,413	6,556	5,239	302	256	12,025	10,084	1,649	1,200	79	64	1,570	1,136	990	860	23	9	967	851	4,019	3,251
California	18,537	15,398	20.4%	12,153	10,302	6,383	5,096	298	253	11,753	9,977	1,595	1,152	79	64	1,516	1,088	982	852	23	9	959	844	3,908	3,164
Oregon	375	197	90.8%	275	110	100	86	NM	NM	271	107	42	39	0	0	42	39	7	8	0	0	7	8	51	40
Washington	73	56	29.3%	0	0	73	56	0	0	0	0	12	9	0	0	12	9	0	0	0	0	0	0	61	47
Pacific Noncontiguous	623	576	8.1%	105	90	518	486	18	22	88	68	201	178	0	0	201	178	1	1	0	0	1	1	315	307
Alaska	1	1	44.9%	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Hawaii	622	575	8.1%	105	90	516	485	18	22	88	68	201	177	0	0	201	177	1	1	0	0	1	1	314	306
U.S. Total	46,186	35,942	28.5%	31,557	24,175	14,629	11,767	2,697	1,651	28,488	22,221	5,051	4,035	330	283	4,721	3,752	1,440	1,242	42	20	1,399	1,222	8,510	6,793

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

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, June 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	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	5	1	301.7%	5	1	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	5	1	301.7%	5	1	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	160	136	17.6%	0	0	160	136	0	0	0	0
Arizona	107	116	-8.0%	0	0	107	116	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	53	20	168.9%	0	0	53	20	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	353	328	7.5%	0	0	353	328	0	0	0	0
California	353	328	7.5%	0	0	353	328	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	517	465	11.2%	5	1	512	464	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 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	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	50	2	NM	50	2	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	50	2	NM	50	2	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	531	495	7.3%	0	0	531	495	0	0	0	0
Arizona	402	429	-6.2%	0	0	402	429	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	130	67	93.9%	0	0	130	67	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	1,277	1,202	6.2%	0	0	1,277	1,202	0	0	0	0
California	1,277	1,202	6.2%	0	0	1,277	1,202	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,859	1,699	9.4%	50	2	1,809	1,698	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-June 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
April	40,607	30,411	9,973	6	217
May	47,563	35,313	12,010	6	235
June	56,087	42,523	13,335	6	223
Year to Date					
2016	299,646	222,434	75,675	58	1,479
2017	313,915	230,709	81,775	48	1,383
2018	298,996	222,320	75,184	46	1,446
Rolling 12 Months Ending in June					
2017	691,641	504,467	184,147	101	2,925
2018	648,559	476,711	168,908	94	2,846

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-June 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
April	1,132	183	85	39	826
May	1,135	171	95	34	834
June	1,101	192	94	35	780
Year to Date					
2016	8,393	1,457	669	295	5,972
2017	7,739	1,361	695	256	5,427
2018	7,342	1,196	654	253	5,239
Rolling 12 Months Ending in June					
2017	15,933	2,883	1,362	533	11,155
2018	14,904	2,635	1,308	508	10,453

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-June 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
April	41,740	30,593	10,058	45	1,043
May	48,699	35,485	12,105	40	1,069
June	57,187	42,715	13,429	41	1,003
Year to Date					
2016	308,039	223,891	76,344	353	7,450
2017	321,655	232,070	82,470	304	6,810
2018	306,338	223,516	75,838	299	6,685
Rolling 12 Months Ending in June					
2017	707,573	507,350	185,509	634	14,080
2018	663,464	479,346	170,217	602	13,299

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 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2008-June 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
April	1,518	1,128	337	16	36
May	1,780	1,302	418	19	41
June	1,826	1,349	418	19	40
Year to Date					
2016	10,972	7,838	2,808	51	275
2017	10,230	7,741	2,169	89	231
2018	16,893	10,264	6,217	141	270
Rolling 12 Months Ending in June					
2017	21,663	16,039	4,985	146	492
2018	28,598	18,246	9,601	245	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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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-June 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
April	140	4	13	22	102
May	154	3	19	20	112
June	202	5	15	19	163
Year to Date					
2016	1,278	44	138	121	975
2017	923	35	108	148	632
2018	1,450	68	193	255	935
Rolling 12 Months Ending in June					
2017	1,922	59	215	271	1,376
2018	2,492	105	323	396	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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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-June 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
April	1,658	1,132	350	38	138
May	1,934	1,305	437	39	153
June	2,028	1,353	434	39	203
Year to Date					
2016	12,250	7,882	2,946	172	1,250
2017	11,152	7,776	2,277	236	864
2018	18,343	10,333	6,410	396	1,205
Rolling 12 Months Ending in June					
2017	23,585	16,099	5,200	417	1,869
2018	31,090	18,351	9,925	642	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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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-June 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
April	224	193	14	0	16
May	176	140	24	0	13
June	310	269	22	0	19
Year to Date					
2016	2,166	1,784	264	1	116
2017	1,704	1,389	219	1	95
2018	1,552	1,330	141	1	81
Rolling 12 Months Ending in June					
2017	3,792	3,031	546	2	212
2018	3,197	2,672	336	2	186

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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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-June 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
April	72	1	10	1	61
May	60	1	6	0	53
June	61	1	1	0	58
Year to Date					
2016	535	3	54	6	473
2017	458	3	59	7	390
2018	380	7	43	5	325
Rolling 12 Months Ending in June					
2017	1,022	6	119	9	887
2018	839	14	99	13	712

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-June 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
April	296	195	24	1	76
May	236	141	29	0	66
June	371	270	24	0	77
Year to Date					
2016	2,701	1,787	318	7	589
2017	2,162	1,392	278	8	485
2018	1,932	1,336	183	6	406
Rolling 12 Months Ending in June					
2017	4,814	3,038	665	11	1,100
2018	4,036	2,687	436	16	897

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 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2008-June 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
April	724,622	362,210	315,874	3,508	43,029
May	867,336	447,654	372,167	3,769	43,746
June	971,688	511,615	411,425	4,079	44,571
Year to Date					
2016	4,786,134	2,387,933	2,117,290	21,343	259,567
2017	4,165,122	2,102,885	1,779,972	21,504	260,760
2018	4,814,208	2,457,116	2,073,182	22,451	261,459
Rolling 12 Months Ending in June					
2017	9,549,098	4,733,847	4,234,056	46,465	534,730
2018	10,089,863	5,107,021	4,411,643	45,712	525,486

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-June 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
April	95,206	3,041	26,992	6,163	59,010
May	94,606	3,170	27,574	5,695	58,167
June	97,289	3,557	28,122	5,998	59,612
Year to Date					
2016	567,302	18,523	178,405	38,918	331,456
2017	566,656	19,831	166,512	37,785	342,529
2018	591,680	20,129	170,429	38,729	362,392
Rolling 12 Months Ending in June					
2017	1,151,220	39,404	345,011	79,810	686,994
2018	1,181,237	42,680	340,379	76,932	721,246

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-June 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
April	819,828	365,251	342,866	9,671	102,039
May	961,943	450,825	399,741	9,464	101,913
June	1,068,977	515,171	439,546	10,077	104,183
Year to Date					
2016	5,353,436	2,406,455	2,295,696	60,262	591,023
2017	4,731,778	2,122,716	1,946,484	59,290	603,289
2018	5,405,887	2,477,245	2,243,612	61,180	623,851
Rolling 12 Months Ending in June					
2017	10,700,318	4,773,251	4,579,068	126,274	1,221,725
2018	11,271,100	5,149,702	4,752,022	122,644	1,246,733

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-June 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	23,194	2,250	18,874	1,723	348
April	22,126	2,055	18,108	1,629	334
May	21,747	1,885	18,086	1,494	282
June	21,556	1,633	18,109	1,553	262
Year to Date					
2016	136,776	12,407	112,166	10,181	2,022
2017	133,283	12,782	109,089	9,345	2,067
2018	133,479	12,175	109,819	9,607	1,879
Rolling 12 Months Ending in June					
2017	270,064	24,655	221,916	19,609	3,884
2018	267,462	24,562	219,982	19,219	3,699

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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2008-June 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	474	0	311	84	78
April	432	1	259	85	88
May	323	1	179	71	72
June	279	1	172	46	62
Year to Date					
2016	2,104	1	1,175	519	409
2017	2,459	3	1,425	559	471
2018	2,386	3	1,535	409	439
Rolling 12 Months Ending in June					
2017	4,518	5	2,589	1,074	850
2018	4,797	7	2,946	949	896

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-June 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	23,668	2,250	19,185	1,807	426
April	22,558	2,056	18,366	1,714	422
May	22,070	1,886	18,264	1,565	355
June	21,836	1,633	18,280	1,599	324
Year to Date					
2016	138,880	12,408	113,342	10,700	2,430
2017	135,742	12,785	110,514	9,904	2,539
2018	135,864	12,178	111,353	10,016	2,317
Rolling 12 Months Ending in June					
2017	274,582	24,660	224,505	20,683	4,735
2018	272,259	24,568	222,928	20,168	4,595

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2008-June 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
April	1,342	38	1,109	194	1
May	1,398	43	1,143	212	1
June	1,454	42	1,202	208	1
Year to Date					
2016	8,369	226	6,892	1,245	5
2017	7,998	198	6,597	1,199	2
2018	8,199	216	6,800	1,177	5
Rolling 12 Months Ending in June					
2017	16,623	435	13,658	2,521	8
2018	16,282	440	13,406	2,425	11

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 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2008-June 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
April	147	0	54	77	16
May	161	0	59	86	16
June	163	0	65	80	18
Year to Date					
2016	1,135	0	472	559	103
2017	1,030	0	416	511	103
2018	948	0	365	492	91
Rolling 12 Months Ending in June					
2017	2,127	0	829	1,085	212
2018	1,901	0	763	942	196

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-June 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
April	1,489	38	1,163	271	17
May	1,559	43	1,202	297	17
June	1,617	42	1,267	289	19
Year to Date					
2016	9,504	226	7,364	1,804	109
2017	9,028	198	7,014	1,711	105
2018	9,146	216	7,166	1,669	96
Rolling 12 Months Ending in June					
2017	18,750	435	14,487	3,607	221
2018	18,184	440	14,169	3,367	207

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

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2008-June 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
April	27,083	2,605	10,829	16	13,633
May	31,698	3,786	12,893	32	14,988
June	31,962	4,483	13,132	53	14,294
Year to Date					
2016	175,046	20,144	72,033	207	82,662
2017	185,262	21,805	79,655	246	83,555
2018	185,414	23,180	76,292	242	85,699
Rolling 12 Months Ending in June					
2017	370,198	42,696	157,138	512	169,852
2018	380,389	45,328	162,498	456	172,107

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-June 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
April	80,524	884	1,924	339	77,377
May	80,630	948	1,846	319	77,516
June	80,910	970	1,873	402	77,666
Year to Date					
2016	475,418	5,709	11,860	2,211	455,637
2017	483,143	5,946	12,793	2,171	462,232
2018	486,074	5,429	12,169	2,480	465,995
Rolling 12 Months Ending in June					
2017	977,566	11,187	23,839	4,481	938,060
2018	981,221	11,314	24,701	4,831	940,375

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.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-June 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,262,675	29,150	148,198	1,410	1,083,917
2009	1,136,729	29,565	150,481	1,408	955,276
2010	1,225,571	40,167	155,429	1,338	1,028,637
2011	1,240,937	35,474	146,684	1,504	1,057,275
2012	1,273,500	32,723	157,468	1,427	1,081,882
2013	1,317,560	43,363	164,063	1,486	1,108,647
2014	1,377,629	54,478	196,775	4,727	1,121,648
2015	1,350,612	53,269	190,587	4,219	1,102,537
2016	1,329,824	51,986	172,421	4,993	1,100,424
2017	1,358,526	55,782	191,186	4,982	1,106,576
Year 2016					
January	116,318	5,169	15,520	500	95,128
February	109,878	4,947	15,548	456	88,928
March	109,606	4,471	14,999	311	89,825
April	100,276	3,279	11,956	384	84,657
May	105,246	3,446	12,275	294	89,231
June	109,140	4,542	13,594	474	90,530
July	112,964	5,010	15,056	435	92,462
August	114,690	5,044	16,353	514	92,780
Sept	105,816	4,002	15,063	446	86,306
October	103,946	3,083	12,589	376	87,898
November	109,567	3,729	14,108	360	91,370
December	132,377	5,265	15,360	443	111,310
Year 2017					
January	117,285	4,985	15,538	581	96,181
February	108,885	4,462	14,445	480	89,497
March	114,321	5,162	16,800	325	92,034
April	106,501	3,926	14,394	328	87,853
May	108,781	4,471	15,145	344	88,820
June	112,633	4,745	16,127	360	91,401
July	118,173	4,944	17,228	395	95,606
August	120,346	4,957	17,424	406	97,558
Sept	106,730	4,070	15,167	249	87,244
October	111,497	4,826	16,427	435	89,810
November	112,482	4,294	15,983	514	91,691
December	120,895	4,941	16,507	566	98,880
Year 2018					
January	117,370	5,135	16,561	517	95,158
February	108,724	4,339	14,972	516	88,896
March	112,587	5,460	14,432	528	92,166
April	107,607	3,488	12,753	356	91,010
May	112,327	4,734	14,739	351	92,504
June	112,872	5,453	15,005	455	91,959
Year to Date					
2016	650,464	25,854	83,893	2,418	538,299
2017	668,404	27,751	92,448	2,418	545,787
2018	671,487	28,610	88,462	2,723	551,694
Rolling 12 Months Ending in June					
2017	1,347,764	53,883	180,977	4,993	1,107,912
2018	1,361,610	56,641	187,199	5,287	1,112,482

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 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, June 2018 and June 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	6	22	-72.0%	5	16	1	6	0	0	NM	NM
Connecticut	0	6	-100.0%	0	0	0	6	0	0	0	0
Maine	1	NM	NM	0	0	1	0	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	5	16	-66.0%	5	16	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	1,959	2,088	-6.2%	0	0	1,953	2,077	0	0	6	11
New Jersey	39	42	-8.1%	0	0	39	42	0	0	0	0
New York	6	28	-78.0%	0	0	6	24	0	0	0	4
Pennsylvania	1,914	2,017	-5.1%	0	0	1,908	2,010	0	0	6	7
East North Central	12,373	12,568	-1.5%	7,612	7,820	4,703	4,687	2	1	57	60
Illinois	3,221	2,993	7.6%	201	190	2,976	2,756	1	1	42	46
Indiana	3,512	3,027	16.0%	3,396	2,902	115	125	1	0	0	0
Michigan	2,258	2,174	3.9%	2,238	2,153	17	19	0	0	3	NM
Ohio	1,836	2,453	-25.0%	242	667	1,594	1,786	0	0	NM	0
Wisconsin	1,547	1,921	-19.0%	1,535	1,908	0	0	0	0	12	13
West North Central	9,895	10,134	-2.4%	9,795	10,040	0	0	1	2	99	92
Iowa	1,437	1,588	-9.5%	1,390	1,539	0	0	1	2	46	47
Kansas	886	1,232	-28.0%	886	1,232	0	0	0	0	0	0
Minnesota	1,091	1,054	3.6%	1,067	1,037	0	0	0	0	24	16
Missouri	3,320	3,471	-4.4%	3,320	3,471	0	0	0	0	0	0
Nebraska	1,255	1,123	12.0%	1,228	1,097	0	0	0	0	27	26
North Dakota	1,763	1,551	14.0%	1,760	1,548	0	0	0	0	3	3
South Dakota	143	116	23.0%	143	116	0	0	0	0	0	0
South Atlantic	8,488	8,789	-3.4%	7,552	7,995	911	779	1	1	24	14
Delaware	21	6	254.0%	0	0	21	6	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,295	1,651	-22.0%	1,293	1,649	0	0	0	0	2	3
Georgia	1,716	1,670	2.8%	1,714	1,667	0	0	0	0	3	3
Maryland	370	322	15.0%	0	0	369	321	0	0	1	1
North Carolina	1,499	1,338	12.0%	1,494	1,332	3	3	1	1	2	2
South Carolina	820	709	16.0%	820	709	0	0	0	0	0	0
Virginia	336	512	-34.0%	306	489	14	17	0	0	17	5
West Virginia	2,430	2,581	-5.8%	1,927	2,149	503	432	0	0	0	0
East South Central	6,004	5,808	3.4%	5,688	5,598	304	196	0	0	13	13
Alabama	1,690	1,490	13.0%	1,689	1,489	0	0	0	0	1	1
Kentucky	2,716	2,518	7.9%	2,716	2,518	0	0	0	0	0	0
Mississippi	521	348	50.0%	217	152	304	196	0	0	0	0
Tennessee	1,078	1,452	-26.0%	1,066	1,440	0	0	0	0	11	12
West South Central	10,521	12,037	-13.0%	5,834	5,574	4,675	6,450	0	0	12	14
Arkansas	1,674	1,325	26.0%	1,432	1,104	242	221	0	0	1	1
Louisiana	931	960	-2.9%	587	688	344	272	0	0	0	0
Oklahoma	858	1,008	-15.0%	752	903	95	92	0	0	11	13
Texas	7,057	8,744	-19.0%	3,063	2,880	3,994	5,865	0	0	0	0
Mountain	6,665	7,351	-9.3%	5,999	6,749	658	585	0	0	7	17
Arizona	1,394	1,409	-1.1%	1,394	1,409	0	0	0	0	0	0
Colorado	1,229	1,492	-18.0%	1,229	1,492	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	552	478	16.0%	21	25	531	453	0	0	0	0
Nevada	149	107	39.0%	102	57	46	50	0	0	0	0
New Mexico	569	847	-33.0%	569	847	0	0	0	0	0	0
Utah	927	993	-6.6%	890	949	37	36	0	0	0	8
Wyoming	1,845	2,025	-8.9%	1,794	1,971	44	46	0	0	6	8
Pacific Contiguous	82	6	NM	18	0	58	0	0	0	5	6
California	5	5	-9.1%	0	0	0	0	0	0	5	5
Oregon	18	0	--	18	0	0	0	0	0	0	0
Washington	59	0	NM	0	0	58	0	0	0	1	0
Pacific Noncontiguous	93	83	12.0%	NM	NM	72	76	3	3	0	0
Alaska	NM	NM	NM	NM	NM	13	13	3	3	0	0
Hawaii	59	62	-5.5%	0	0	59	62	0	0	0	0
U.S. Total	56,087	58,884	-4.8%	42,523	43,796	13,335	14,854	6	7	223	226

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through June 2018 and June 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	359	694	-48.0%	205	65	153	628	0	0	NM	NM
Connecticut	146	62	134.0%	0	0	146	62	0	0	0	0
Maine	8	8	2.3%	0	0	7	6	0	0	NM	NM
Massachusetts	0	559	-100.0%	0	0	0	559	0	0	0	0
New Hampshire	205	65	215.0%	205	65	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	12,204	11,787	3.5%	0	0	12,158	11,702	0	0	46	85
New Jersey	259	250	3.9%	0	0	259	250	0	0	0	0
New York	164	188	-13.0%	0	0	161	141	0	0	4	47
Pennsylvania	11,780	11,349	3.8%	0	0	11,738	11,311	0	0	42	38
East North Central	70,179	69,590	0.8%	43,026	42,440	26,755	26,787	11	7	388	355
Illinois	17,588	16,454	6.9%	1,073	1,103	16,238	15,083	6	5	271	263
Indiana	18,964	16,600	14.0%	18,059	16,056	900	542	5	2	0	0
Michigan	11,715	12,404	-5.6%	11,576	12,284	112	112	0	0	27	8
Ohio	12,439	14,600	-15.0%	2,933	3,548	9,505	11,050	0	0	1	1
Wisconsin	9,474	9,532	-0.6%	9,384	9,448	0	0	0	0	89	83
West North Central	56,503	54,608	3.5%	55,870	54,010	0	0	11	16	622	582
Iowa	7,201	6,856	5.0%	6,935	6,605	0	0	9	12	257	239
Kansas	5,953	5,497	8.3%	5,953	5,497	0	0	0	0	0	0
Minnesota	6,371	6,141	3.7%	6,217	5,992	0	0	0	1	154	148
Missouri	18,179	19,410	-6.3%	18,178	19,406	0	0	1	4	0	0
Nebraska	6,978	5,950	17.0%	6,786	5,772	0	0	0	0	192	178
North Dakota	11,003	10,128	8.6%	10,984	10,112	0	0	0	0	19	16
South Dakota	817	625	31.0%	817	625	0	0	0	0	0	0
South Atlantic	41,667	44,297	-5.9%	35,695	40,037	5,819	4,153	6	7	147	99
Delaware	75	46	63.0%	0	0	75	46	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,224	8,556	-27.0%	6,210	8,543	3	0	0	0	11	13
Georgia	7,339	7,957	-7.8%	7,321	7,941	0	0	0	0	18	16
Maryland	2,660	1,395	91.0%	0	0	2,650	1,386	0	0	9	9
North Carolina	6,576	6,228	5.6%	6,540	6,185	16	19	5	6	15	18
South Carolina	3,802	3,794	0.2%	3,800	3,792	0	0	0	0	2	2
Virginia	2,446	2,726	-10.0%	2,207	2,586	147	97	1	2	91	41
West Virginia	12,545	13,595	-7.7%	9,617	10,990	2,928	2,605	0	0	0	0
East South Central	29,024	30,159	-3.8%	27,462	28,705	1,479	1,374	0	0	83	80
Alabama	8,302	7,838	5.9%	8,293	7,831	0	0	0	0	9	7
Kentucky	13,131	13,769	-4.6%	13,131	13,769	0	0	0	0	0	0
Mississippi	2,109	1,994	5.8%	631	620	1,479	1,374	0	0	0	0
Tennessee	5,481	6,558	-16.0%	5,407	6,484	0	0	0	0	74	74
West South Central	49,633	59,167	-16.0%	26,523	27,418	23,037	31,660	0	0	72	90
Arkansas	7,350	6,859	7.2%	6,032	6,244	1,314	611	0	0	5	4
Louisiana	3,508	4,271	-18.0%	2,170	2,596	1,339	1,675	0	0	0	0
Oklahoma	4,542	5,010	-9.4%	4,013	4,493	461	432	0	0	68	85
Texas	34,232	43,026	-20.0%	14,309	14,085	19,923	28,941	0	0	0	0
Mountain	38,255	42,167	-9.3%	33,405	37,600	4,796	4,508	0	0	54	59
Arizona	7,677	7,586	1.2%	7,677	7,586	0	0	0	0	0	0
Colorado	6,949	8,132	-15.0%	6,947	8,131	0	0	0	0	2	1
Idaho	3	3	7.0%	0	0	0	0	0	0	3	3
Montana	4,193	3,912	7.2%	92	137	4,100	3,774	0	0	1	1
Nevada	375	484	-23.0%	133	210	242	275	0	0	0	0
New Mexico	2,739	5,264	-48.0%	2,739	5,264	0	0	0	0	0	0
Utah	5,247	5,418	-3.2%	5,045	5,210	202	198	0	0	0	11
Wyoming	11,074	11,369	-2.6%	10,774	11,064	252	261	0	0	48	44
Pacific Contiguous	609	911	-33.0%	18	334	558	546	0	0	32	32
California	29	28	4.0%	0	0	0	0	0	0	29	28
Oregon	18	334	-95.0%	18	334	0	0	0	0	0	0
Washington	561	549	2.2%	0	0	558	546	0	0	3	4
Pacific Noncontiguous	563	535	5.2%	115	100	429	418	19	17	0	0
Alaska	210	183	15.0%	115	100	77	66	19	17	0	0
Hawaii	353	352	0.3%	0	0	353	352	0	0	0	0
U.S. Total	298,996	313,915	-4.8%	222,320	230,709	75,184	81,775	46	48	1,446	1,383

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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 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, June 2018 and June 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	68	42	64.0%	6	9	60	30	2	2	0	1
Connecticut	56	15	273.0%	NM	NM	55	14	NM	NM	0	0
Maine	1	3	-64.0%	0	0	NM	2	1	1	0	1
Massachusetts	6	17	-62.0%	NM	3	NM	13	NM	1	0	0
New Hampshire	3	5	-41.0%	2	5	NM	NM	1	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	104	103	1.0%	29	27	71	71	NM	NM	3	4
New Jersey	11	6	75.0%	NM	NM	11	6	0	0	0	0
New York	45	55	-20.0%	29	27	13	26	NM	NM	1	2
Pennsylvania	49	42	18.0%	0	0	47	39	0	1	2	2
East North Central	81	95	-14.0%	46	65	33	28	1	1	2	1
Illinois	8	7	20.0%	NM	NM	7	5	NM	NM	0	0
Indiana	21	23	-10.0%	19	22	0	0	0	0	1	1
Michigan	16	19	-14.0%	15	18	0	0	1	0	NM	0
Ohio	29	41	-28.0%	NM	18	26	23	0	0	0	0
Wisconsin	7	NM	NM	7	NM	0	0	0	0	NM	NM
West North Central	70	46	54.0%	69	45	NM	NM	0	NM	0	0
Iowa	15	NM	NM	15	NM	0	NM	0	0	0	0
Kansas	12	5	145.0%	12	5	0	0	0	0	0	0
Minnesota	10	10	1.2%	9	NM	NM	NM	0	NM	0	0
Missouri	26	6	338.0%	26	6	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	6	-26.0%	4	6	0	0	0	0	0	0
South Dakota	2	6	-70.0%	2	6	0	0	NM	NM	0	0
South Atlantic	381	291	31.0%	327	241	29	35	15	9	9	7
Delaware	5	NM	NM	0	0	5	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	82	74	10.0%	78	70	1	2	0	0	NM	NM
Georgia	NM	13	NM	10	11	NM	NM	1	NM	NM	NM
Maryland	14	16	-11.0%	1	NM	13	15	0	0	0	0
North Carolina	32	25	29.0%	29	23	NM	NM	0	0	2	NM
South Carolina	9	12	-29.0%	8	11	0	0	NM	0	0	1
Virginia	194	127	52.0%	172	107	8	11	14	8	NM	NM
West Virginia	30	18	65.0%	30	18	0	0	0	0	0	0
East South Central	45	44	2.6%	42	42	NM	NM	0	0	NM	NM
Alabama	NM	NM	NM	7	3	NM	NM	0	0	NM	NM
Kentucky	13	13	1.9%	13	13	0	0	0	0	0	0
Mississippi	4	2	127.0%	4	2	0	0	0	0	0	0
Tennessee	18	25	-26.0%	18	25	0	0	0	0	0	0
West South Central	18	26	-29.0%	13	18	NM	7	0	0	1	0
Arkansas	4	10	-64.0%	3	6	1	5	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	2	5	-59.0%	2	5	0	0	0	0	0	0
Texas	9	9	3.1%	NM	6	NM	NM	0	0	1	0
Mountain	39	38	2.9%	33	33	6	4	0	0	0	0
Arizona	7	12	-37.0%	7	12	0	0	0	0	0	0
Colorado	3	NM	NM	3	NM	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	4	42.0%	NM	NM	5	4	0	0	0	0
Nevada	2	4	-52.0%	2	4	1	1	0	0	0	0
New Mexico	3	NM	NM	3	NM	0	0	0	0	0	0
Utah	4	4	23.0%	4	4	0	0	0	0	0	0
Wyoming	14	8	79.0%	14	8	0	0	0	0	0	0
Pacific Contiguous	13	8	61.0%	7	NM	4	2	0	NM	2	NM
California	10	7	42.0%	6	NM	4	2	0	NM	0	NM
Oregon	1	0	NM	1	0	0	0	0	0	0	0
Washington	2	NM	NM	NM	NM	1	NM	0	0	2	NM
Pacific Noncontiguous	1,007	1,047	-3.8%	776	805	211	219	1	NM	20	22
Alaska	93	121	-23.0%	88	115	0	0	NM	NM	5	6
Hawaii	914	926	-1.2%	687	690	211	219	1	0	15	16
U.S. Total	1,826	1,739	5.1%	1,349	1,290	418	397	19	14	40	38

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

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through June 2018 and June 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	1,648	342	381.0%	265	52	1,345	263	29	24	9	4
Connecticut	386	61	536.0%	NM	5	377	54	NM	NM	1	0
Maine	267	56	376.0%	0	0	256	49	3	3	8	3
Massachusetts	653	171	282.0%	85	9	554	151	NM	10	1	1
New Hampshire	252	34	632.0%	164	27	80	NM	9	7	0	0
Rhode Island	NM	14	NM	0	5	NM	NM	1	2	0	0
Vermont	NM	6	NM	NM	6	0	0	0	0	0	0
Middle Atlantic	3,609	611	490.0%	1,144	187	2,411	378	NM	12	NM	34
New Jersey	363	40	817.0%	3	NM	355	39	4	0	1	0
New York	2,409	331	627.0%	1,138	186	1,240	116	NM	NM	NM	23
Pennsylvania	837	240	248.0%	2	0	817	223	7	5	NM	12
East North Central	656	469	40.0%	356	299	283	161	NM	3	12	7
Illinois	66	54	22.0%	NM	7	53	46	NM	NM	0	0
Indiana	115	108	6.4%	104	103	1	0	0	0	9	5
Michigan	140	88	60.0%	136	85	0	0	3	2	1	1
Ohio	303	187	62.0%	74	72	227	114	0	0	1	1
Wisconsin	33	33	-0.5%	30	32	2	0	0	0	NM	NM
West North Central	393	303	29.0%	357	297	NM	NM	1	1	1	1
Iowa	95	86	9.3%	93	85	1	1	0	0	0	0
Kansas	NM	58	NM	NM	58	0	0	0	0	0	0
Minnesota	NM	36	NM	30	31	NM	NM	1	1	0	1
Missouri	114	56	104.0%	114	56	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	32	46	-29.0%	32	46	0	0	0	0	0	0
South Dakota	NM	12	NM	NM	12	0	0	NM	NM	0	0
South Atlantic	3,946	1,624	143.0%	2,702	1,296	1,117	255	75	41	52	32
Delaware	218	32	587.0%	12	0	206	31	0	0	0	0
District of Columbia	NM	0	--	0	0	0	0	NM	0	0	0
Florida	602	523	15.0%	562	508	NM	6	0	0	15	9
Georgia	NM	105	NM	NM	78	NM	NM	5	2	15	9
Maryland	445	99	350.0%	7	2	435	95	1	1	2	1
North Carolina	721	208	247.0%	673	190	NM	13	0	0	NM	4
South Carolina	NM	84	NM	NM	77	42	2	NM	0	7	6
Virginia	1,200	461	160.0%	903	329	224	91	68	38	NM	3
West Virginia	171	112	53.0%	152	112	19	0	0	0	0	0
East South Central	324	248	31.0%	252	235	58	5	0	0	14	8
Alabama	114	37	207.0%	NM	26	58	5	0	0	NM	7
Kentucky	88	97	-9.3%	88	97	0	0	0	0	0	0
Mississippi	NM	14	NM	NM	13	0	0	0	0	2	1
Tennessee	102	100	2.1%	101	99	0	0	0	0	1	1
West South Central	NM	148	NM	NM	73	NM	73	1	1	5	2
Arkansas	NM	51	NM	NM	19	5	31	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	15	14	3.2%	14	14	0	0	0	0	1	1
Texas	NM	76	NM	NM	33	NM	41	1	1	2	1
Mountain	183	230	-20.0%	165	205	19	25	0	0	0	0
Arizona	53	55	-2.8%	53	55	0	0	0	0	0	0
Colorado	15	10	53.0%	15	10	0	0	0	0	0	0
Idaho	0	0	-5.0%	0	0	0	0	0	0	0	0
Montana	15	20	-24.0%	NM	NM	15	20	0	0	0	0
Nevada	8	9	-7.9%	5	5	3	4	0	0	0	0
New Mexico	17	46	-63.0%	17	46	0	0	0	0	0	0
Utah	34	39	-13.0%	33	37	1	1	0	0	0	0
Wyoming	40	51	-22.0%	40	51	0	0	0	0	0	0
Pacific Contiguous	60	67	-11.0%	32	40	9	13	0	0	18	14
California	51	46	9.5%	30	31	7	6	0	0	13	9
Oregon	1	5	-79.0%	1	5	0	0	0	0	0	0
Washington	8	16	-50.0%	NM	4	2	7	0	0	5	5
Pacific Noncontiguous	5,914	6,187	-4.4%	4,870	5,058	909	992	7	8	128	129
Alaska	699	824	-15.0%	663	786	0	0	3	4	32	35
Hawaii	5,216	5,362	-2.7%	4,207	4,272	909	992	4	4	96	94
U.S. Total	16,893	10,230	65.0%	10,264	7,741	6,217	2,169	141	89	270	231

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	1	1	34.0%	0	0	0	0	0	0	1	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	82	84	-3.0%	55	49	21	27	0	0	6	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	56	53	6.1%	51	45	0	0	0	0	6	8
Ohio	21	27	-22.0%	0	0	21	27	0	0	0	0
Wisconsin	4	4	1.7%	4	4	0	0	0	0	0	0
West North Central	0	1	-94.0%	0	0	0	0	0	0	0	1
Iowa	0	1	-94.0%	0	0	0	0	0	0	0	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	64	49	29.0%	60	47	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	60	47	28.0%	60	47	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	31	-100.0%	0	31	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	31	-100.0%	0	31	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	161	160	0.6%	154	154	0	0	0	0	8	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	157	157	-0.1%	154	154	0	0	0	0	3	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	3	29.0%	0	0	0	0	0	0	4	3
Mountain	1	13	-88.0%	0	0	1	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	1	13	-88.0%	0	0	1	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	310	341	-9.1%	269	282	22	40	0	0	19	19

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	8	9	-13.0%	0	0	0	0	0	0	8	9
New Jersey	3	3	-21.0%	0	0	0	0	0	0	3	3
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	5	6	-8.4%	0	0	0	0	0	0	5	6
East North Central	388	407	-4.9%	296	236	75	142	0	0	17	30
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	291	252	15.0%	276	223	0	0	0	0	16	30
Ohio	75	142	-47.0%	0	0	75	142	0	0	1	0
Wisconsin	21	13	65.0%	21	13	0	0	0	0	0	0
West North Central	6	4	41.0%	0	0	0	0	1	1	5	3
Iowa	6	4	41.0%	0	0	0	0	1	1	5	3
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	276	152	81.0%	259	140	0	0	0	0	17	12
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	259	140	85.0%	259	140	0	0	0	0	0	0
Georgia	17	12	37.0%	0	0	0	0	0	0	17	12
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	154	-100.0%	0	154	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	154	-100.0%	0	154	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	809	900	-10.0%	775	859	0	0	0	0	34	41
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	789	878	-10.0%	775	859	0	0	0	0	15	19
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20	22	-12.0%	0	0	0	0	0	0	20	22
Mountain	66	77	-14.0%	0	0	66	77	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	66	77	-14.0%	0	0	66	77	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,552	1,704	-8.9%	1,330	1,389	141	219	1	1	81	95

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, June 2018 and June 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	31,007	31,227	-0.7%	NM	NM	29,886	30,023	369	395	468	451
Connecticut	11,792	8,249	43.0%	30	33	11,361	7,825	156	169	244	221
Maine	1,792	1,886	-5.0%	0	0	1,659	NM	14	13	119	115
Massachusetts	10,230	14,727	-31.0%	NM	NM	9,749	14,170	177	188	90	98
New Hampshire	3,059	2,524	21.0%	37	52	3,006	2,453	0	2	15	16
Rhode Island	4,132	3,839	7.6%	0	0	4,111	3,817	20	23	0	0
Vermont	2	2	37.0%	2	1	0	0	0	0	0	0
Middle Atlantic	105,992	99,547	6.5%	9,943	9,201	94,468	88,834	481	514	1,101	998
New Jersey	23,993	25,385	-5.5%	NM	NM	23,610	24,929	73	84	169	155
New York	35,484	35,707	-0.6%	9,800	8,971	24,981	26,138	358	378	345	220
Pennsylvania	46,516	38,455	21.0%	1	13	45,877	37,767	51	52	587	623
East North Central	82,455	65,232	26.0%	31,305	28,322	48,849	34,281	619	655	1,682	1,975
Illinois	12,204	12,904	-5.4%	1,564	NM	10,095	10,917	153	164	392	539
Indiana	18,234	11,140	64.0%	9,206	9,220	8,047	928	81	99	900	893
Michigan	17,434	16,470	5.8%	6,341	5,887	10,656	9,964	222	231	215	389
Ohio	24,168	16,903	43.0%	5,000	5,269	18,973	11,450	125	129	70	56
Wisconsin	10,415	7,814	33.0%	9,193	6,663	1,079	1,022	38	31	105	98
West North Central	22,623	14,056	61.0%	19,677	12,138	2,573	1,637	138	133	235	149
Iowa	4,822	2,055	135.0%	4,613	1,967	NM	0	47	46	163	42
Kansas	4,453	2,639	69.0%	4,442	2,604	0	0	0	0	10	35
Minnesota	5,473	3,945	39.0%	4,686	3,237	704	620	40	37	43	51
Missouri	5,841	3,856	51.0%	3,912	2,778	1,869	NM	50	49	10	12
Nebraska	613	450	36.0%	612	450	0	0	1	1	0	0
North Dakota	819	663	23.0%	810	653	0	0	0	0	8	10
South Dakota	602	NM	NM	602	NM	0	0	0	0	0	0
South Atlantic	254,605	226,245	13.0%	204,960	181,623	46,708	42,060	922	522	2,016	2,041
Delaware	3,058	5,439	-44.0%	8	12	2,694	5,015	0	0	356	411
District of Columbia	66	69	-4.4%	0	0	0	0	66	69	0	0
Florida	119,591	109,836	8.9%	111,943	101,412	6,968	7,795	8	8	673	622
Georgia	37,453	34,802	7.6%	27,025	26,454	10,071	8,040	0	0	358	309
Maryland	9,082	4,988	82.0%	2,533	0	5,669	4,516	836	432	43	40
North Carolina	30,272	24,329	24.0%	25,198	21,012	4,993	3,254	7	7	74	57
South Carolina	17,037	11,728	45.0%	13,894	10,579	3,080	1,080	0	0	64	69
Virginia	37,039	33,834	9.5%	24,345	22,036	12,308	11,431	4	6	382	361
West Virginia	1,006	1,219	-17.0%	14	118	925	929	0	0	67	172
East South Central	88,836	78,714	13.0%	61,446	54,094	26,222	23,551	76	79	1,092	990
Alabama	37,907	32,632	16.0%	14,682	10,782	22,646	21,342	0	0	579	508
Kentucky	8,183	7,980	2.5%	7,943	7,696	163	201	0	0	77	82
Mississippi	33,459	30,668	9.1%	29,895	28,493	3,397	2,002	0	0	168	173
Tennessee	9,287	7,435	25.0%	8,925	7,123	17	6	76	79	269	226
West South Central	253,868	225,461	13.0%	101,709	78,669	120,385	115,691	421	381	31,353	30,720
Arkansas	14,582	13,165	11.0%	13,863	5,217	609	7,854	0	0	111	94
Louisiana	40,265	38,356	5.0%	25,175	24,129	3,548	1,964	66	66	11,475	12,198
Oklahoma	35,597	25,123	42.0%	23,563	15,412	11,812	9,582	0	0	222	129
Texas	163,423	148,817	9.8%	39,107	33,911	104,417	96,291	354	316	19,545	18,299
Mountain	75,255	69,557	8.2%	58,298	52,148	15,778	16,316	174	146	1,004	947
Arizona	27,084	27,531	-1.6%	17,988	17,361	9,039	10,115	57	56	0	0
Colorado	11,812	8,613	37.0%	9,775	6,976	2,005	1,606	0	0	31	30
Idaho	1,832	1,379	33.0%	1,055	799	733	NM	14	13	30	30
Montana	308	315	-2.1%	305	293	NM	NM	0	0	0	0
Nevada	19,216	19,166	0.3%	17,668	17,614	1,280	1,314	23	13	244	225
New Mexico	9,626	8,119	19.0%	6,905	5,546	2,673	2,525	41	48	7	0
Utah	4,921	4,092	20.0%	4,472	3,474	43	196	39	16	367	406
Wyoming	455	342	33.0%	130	85	1	0	0	0	325	256
Pacific Contiguous	54,697	58,832	-7.0%	21,669	19,840	26,555	32,273	879	946	5,595	5,773
California	45,183	52,653	-14.0%	15,742	16,674	23,033	29,333	859	934	5,549	5,712
Oregon	4,246	2,876	48.0%	2,323	1,655	1,877	1,179	13	10	32	32
Washington	5,269	3,304	59.0%	3,603	1,510	1,645	1,762	6	3	14	29
Pacific Noncontiguous	2,350	1,824	29.0%	2,326	1,798	0	0	0	0	24	25
Alaska	2,350	1,824	29.0%	2,326	1,798	0	0	0	0	24	25
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	971,688	870,696	12.0%	511,615	438,191	411,425	384,666	4,079	3,771	44,571	44,068

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

Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through June 2018 and June 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	154,942	166,608	-7.0%	NM	1,043	148,976	160,580	2,168	2,140	2,858	2,845
Connecticut	58,980	49,515	19.0%	180	190	56,579	47,145	914	902	1,307	1,278
Maine	7,927	9,436	-16.0%	0	0	7,070	8,527	74	67	783	842
Massachusetts	62,228	77,403	-20.0%	NM	NM	59,791	75,128	1,061	1,043	669	626
New Hampshire	6,002	11,437	-48.0%	49	240	5,840	11,073	15	24	98	100
Rhode Island	19,799	18,809	5.3%	0	0	19,696	18,706	103	102	0	0
Vermont	7	9	-20.0%	5	7	0	0	2	2	0	0
Middle Atlantic	529,183	488,905	8.2%	42,361	41,613	477,387	439,157	2,957	2,893	6,478	5,243
New Jersey	125,016	127,488	-1.9%	NM	NM	122,824	125,166	444	467	984	900
New York	168,393	173,295	-2.8%	41,552	40,633	122,704	129,501	2,141	2,094	1,996	1,068
Pennsylvania	235,774	188,122	25.0%	44	25	231,859	184,491	373	332	3,498	3,275
East North Central	451,259	326,763	38.0%	171,205	140,059	263,734	171,274	3,659	3,613	12,660	11,816
Illinois	54,628	53,723	1.7%	5,145	4,724	46,243	45,743	918	958	2,322	2,299
Indiana	89,432	60,839	47.0%	45,227	47,427	37,502	7,439	461	494	6,242	5,479
Michigan	116,045	87,558	33.0%	39,016	29,501	72,740	53,889	1,494	1,379	2,796	2,789
Ohio	137,746	87,839	57.0%	32,852	26,448	103,835	60,357	563	602	497	432
Wisconsin	53,408	36,803	45.0%	48,965	31,959	3,415	3,846	225	180	803	818
West North Central	106,900	64,166	67.0%	91,964	54,242	12,690	8,173	784	694	1,461	1,056
Iowa	22,876	9,491	141.0%	21,828	8,786	NM	NM	255	202	793	502
Kansas	17,043	8,772	94.0%	16,839	8,670	0	0	0	0	204	102
Minnesota	31,105	21,430	45.0%	26,024	17,670	4,541	3,151	227	280	312	330
Missouri	25,262	16,694	51.0%	16,752	11,377	8,148	5,022	277	205	84	90
Nebraska	2,817	1,782	58.0%	2,792	1,775	0	0	25	7	0	0
North Dakota	4,620	3,683	25.0%	4,552	3,651	0	0	0	0	68	32
South Dakota	3,177	2,314	37.0%	3,177	2,314	0	0	0	0	0	0
South Atlantic	1,236,855	1,126,210	9.8%	1,001,381	921,038	219,983	190,107	4,097	3,077	11,395	11,988
Delaware	20,595	24,972	-18.0%	23	34	18,901	22,697	0	0	1,671	2,241
District of Columbia	323	358	-9.8%	0	0	0	0	323	358	0	0
Florida	585,910	554,264	5.7%	551,885	514,334	30,067	36,106	57	71	3,901	3,753
Georgia	186,297	174,928	6.5%	138,024	133,781	46,293	39,236	0	0	1,979	1,911
Maryland	45,921	23,161	98.0%	11,400	0	30,641	20,349	3,646	2,591	233	221
North Carolina	151,913	133,686	14.0%	131,388	116,112	20,098	17,256	31	34	395	284
South Carolina	66,308	61,243	8.3%	55,330	53,880	10,561	6,944	1	2	417	418
Virginia	174,738	149,865	17.0%	112,284	102,152	60,134	45,465	38	21	2,283	2,227
West Virginia	4,851	3,732	30.0%	1,047	746	3,288	2,053	0	0	516	933
East South Central	481,117	406,687	18.0%	334,813	278,902	139,645	121,374	502	463	6,157	5,948
Alabama	194,606	169,445	15.0%	72,814	59,594	118,523	106,697	0	0	3,269	3,154
Kentucky	55,741	38,292	46.0%	51,736	36,443	3,582	1,341	0	0	423	508
Mississippi	187,301	160,956	16.0%	168,789	146,636	17,449	13,277	39	21	1,024	1,022
Tennessee	43,469	37,994	14.0%	41,473	36,229	91	59	463	442	1,442	1,263
West South Central	1,199,103	991,015	21.0%	415,854	319,875	600,116	487,135	1,687	1,926	181,446	182,078
Arkansas	74,355	59,507	25.0%	36,868	21,806	36,720	37,012	0	0	767	688
Louisiana	207,238	193,333	7.2%	121,462	105,498	16,315	15,630	332	327	69,129	71,879
Oklahoma	144,779	99,234	46.0%	88,425	64,794	54,983	33,620	0	0	1,371	820
Texas	772,730	638,941	21.0%	169,099	127,777	492,098	400,873	1,355	1,599	110,178	108,691
Mountain	325,117	280,808	16.0%	258,780	218,262	58,878	55,214	1,094	1,024	6,365	6,307
Arizona	100,821	83,235	21.0%	77,324	58,982	23,182	23,954	315	298	0	0
Colorado	57,266	41,530	38.0%	48,106	33,958	8,999	7,402	0	0	161	169
Idaho	7,295	7,921	-7.9%	2,724	4,448	4,217	3,093	86	87	268	293
Montana	1,955	2,012	-2.8%	1,780	1,734	169	268	0	0	6	10
Nevada	87,533	87,253	0.3%	79,030	79,025	7,157	7,099	133	114	1,213	1,014
New Mexico	42,664	35,299	21.0%	28,114	22,581	14,253	12,439	249	270	49	9
Utah	24,812	21,113	18.0%	21,068	17,201	892	950	312	255	2,540	2,708
Wyoming	2,771	2,446	13.0%	634	333	8	9	0	0	2,129	2,105
Pacific Contiguous	316,132	303,377	4.2%	126,347	117,427	151,774	146,958	5,500	5,654	32,511	33,339
California	252,171	252,502	-0.1%	93,534	91,979	121,296	122,151	5,342	5,531	31,999	32,840
Oregon	36,495	25,635	42.0%	16,822	11,173	19,309	14,143	111	81	253	238
Washington	27,466	25,241	8.8%	15,991	14,274	11,169	10,664	48	42	259	260
Pacific Noncontiguous	13,599	10,583	28.0%	13,469	10,422	0	0	2	21	127	139
Alaska	13,599	10,583	28.0%	13,469	10,422	0	0	2	21	127	139
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,814,208	4,165,122	16.0%	2,457,116	2,102,885	2,073,182	1,779,972	22,451	21,504	261,459	260,760

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	886	920	-3.7%	0	0	881	898	5	22	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	359	357	0.4%	0	0	359	357	0	0	0	0
New Hampshire	70	87	-20.0%	0	0	64	65	5	22	0	0
Rhode Island	332	353	-5.8%	0	0	332	353	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,192	4,460	-6.0%	0	0	4,005	4,232	NM	NM	97	127
New Jersey	645	678	-4.9%	0	0	619	649	NM	NM	0	0
New York	1,375	1,361	1.0%	0	0	1,375	1,361	0	0	0	0
Pennsylvania	2,173	2,421	-10.0%	0	0	2,011	2,222	NM	NM	97	127
East North Central	5,026	5,238	-4.1%	599	631	4,392	4,569	18	19	17	NM
Illinois	803	998	-19.0%	25	27	778	970	0	0	0	0
Indiana	681	697	-2.3%	574	604	106	92	0	0	0	NM
Michigan	1,678	1,740	-3.6%	0	0	1,678	1,740	0	0	0	0
Ohio	892	876	1.9%	0	0	892	876	0	0	0	0
Wisconsin	972	928	4.8%	0	0	937	891	18	19	17	19
West North Central	994	848	17.0%	278	283	716	565	0	0	0	0
Iowa	230	96	138.0%	0	0	230	96	0	0	0	0
Kansas	122	117	3.8%	0	0	122	117	0	0	0	0
Minnesota	328	322	1.9%	NM	NM	266	255	0	0	0	0
Missouri	155	164	-5.6%	NM	NM	99	97	0	0	0	0
Nebraska	159	148	7.5%	159	148	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,768	3,746	0.6%	398	373	3,130	3,105	NM	NM	148	172
Delaware	113	111	1.3%	0	0	100	99	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	630	593	6.3%	162	130	468	463	0	0	0	0
Georgia	333	335	-0.7%	0	0	319	301	0	0	14	35
Maryland	216	214	1.0%	0	0	163	160	NM	NM	0	0
North Carolina	907	907	0.0%	0	0	887	884	NM	NM	0	0
South Carolina	392	400	-2.1%	236	242	NM	NM	0	0	NM	NM
Virginia	1,177	1,186	-0.8%	0	2	1,159	1,165	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	465	456	2.1%	176	178	289	278	0	0	0	0
Alabama	97	93	4.7%	0	0	97	93	0	0	0	0
Kentucky	187	188	-0.3%	176	178	11	10	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	162	157	3.6%	0	0	162	157	0	0	0	0
West South Central	1,236	1,272	-2.8%	0	0	1,188	1,228	48	44	0	0
Arkansas	140	134	4.9%	0	0	140	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	1,064	1,107	-3.8%	0	0	1,017	1,063	48	44	0	0
Mountain	554	523	6.0%	NM	NM	483	467	55	37	0	0
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	95	NM	NM	0	0	95	NM	0	0	0	0
Idaho	71	71	1.2%	NM	NM	NM	NM	19	17	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	130	130	0.2%	0	0	130	130	0	0	0	0
New Mexico	0	NM	NM	0	0	0	NM	0	0	0	0
Utah	180	156	16.0%	0	0	145	135	36	20	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,363	4,445	-1.8%	164	456	3,025	2,831	1,174	1,157	0	0
California	3,769	3,614	4.3%	NM	46	2,619	2,445	1,141	1,122	0	0
Oregon	487	468	4.0%	125	125	330	309	NM	NM	0	0
Washington	107	363	-71.0%	30	285	77	78	0	0	0	0
Pacific Noncontiguous	72	71	1.7%	0	0	0	0	72	71	0	0
Alaska	72	71	1.7%	0	0	0	0	72	71	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,556	21,978	-1.9%	1,633	1,939	18,109	18,174	1,553	1,547	262	318

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	5,326	5,392	-1.2%	0	0	5,226	5,290	100	102	0	0
Connecticut	220	218	0.7%	0	0	220	218	0	0	0	0
Maine	341	339	0.7%	0	0	341	339	0	0	0	0
Massachusetts	2,105	2,123	-0.8%	0	0	2,105	2,123	0	0	0	0
New Hampshire	497	498	0.0%	0	0	397	395	100	102	0	0
Rhode Island	1,971	2,030	-2.9%	0	0	1,971	2,030	0	0	0	0
Vermont	191	184	3.9%	0	0	191	184	0	0	0	0
Middle Atlantic	26,020	26,412	-1.5%	0	0	24,816	25,136	487	456	717	820
New Jersey	3,879	3,741	3.7%	0	0	3,720	3,588	159	153	0	0
New York	8,026	8,049	-0.3%	0	0	8,026	8,049	0	0	0	0
Pennsylvania	14,115	14,621	-3.5%	0	0	13,070	13,498	328	303	717	820
East North Central	31,314	32,098	-2.4%	3,733	3,938	27,256	27,842	183	179	143	139
Illinois	5,451	6,278	-13.0%	183	218	5,268	6,060	0	0	0	0
Indiana	4,178	4,223	-1.0%	3,550	3,662	612	554	0	0	16	NM
Michigan	10,393	10,438	-0.4%	0	0	10,393	10,438	0	0	0	0
Ohio	5,387	5,382	0.1%	0	0	5,387	5,382	0	0	0	0
Wisconsin	5,904	5,776	2.2%	0	NM	5,595	5,408	183	179	127	132
West North Central	5,954	5,107	17.0%	1,756	1,716	4,198	3,391	0	0	0	0
Iowa	1,339	603	122.0%	0	0	1,339	603	0	0	0	0
Kansas	715	697	2.5%	0	0	715	697	0	0	0	0
Minnesota	1,968	1,938	1.6%	414	427	1,554	1,510	0	0	0	0
Missouri	1,011	1,033	-2.1%	421	453	590	580	0	0	0	0
Nebraska	921	835	10.0%	921	835	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	23,092	22,695	1.8%	2,383	2,381	19,047	18,584	644	621	1,018	1,108
Delaware	676	668	1.1%	0	0	603	595	0	0	72	74
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,654	3,590	1.8%	871	850	2,783	2,740	0	0	0	0
Georgia	2,004	1,943	3.1%	0	0	1,938	1,761	0	0	66	182
Maryland	1,396	1,374	1.6%	0	0	980	967	416	407	0	0
North Carolina	5,338	5,280	1.1%	0	0	5,233	5,182	105	98	0	0
South Carolina	2,566	2,545	0.8%	1,483	1,493	203	200	0	0	880	852
Virginia	7,458	7,295	2.2%	29	39	7,307	7,140	123	116	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,761	2,735	1.0%	1,069	1,060	1,692	1,675	0	0	0	0
Alabama	568	551	3.0%	0	0	568	551	0	0	0	0
Kentucky	1,130	1,145	-1.3%	1,069	1,060	61	85	0	0	0	0
Mississippi	107	105	1.9%	0	0	107	105	0	0	0	0
Tennessee	957	934	2.4%	0	0	957	934	0	0	0	0
West South Central	7,366	7,693	-4.3%	0	0	7,067	7,435	299	258	0	0
Arkansas	814	789	3.1%	0	0	814	789	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	191	188	1.4%	0	0	191	188	0	0	0	0
Texas	6,362	6,716	-5.3%	0	0	6,063	6,458	299	258	0	0
Mountain	3,279	3,227	1.6%	109	111	2,923	2,877	247	239	0	0
Arizona	457	446	2.5%	0	0	457	446	0	0	0	0
Colorado	552	537	2.9%	0	0	552	537	0	0	0	0
Idaho	405	408	-0.8%	109	111	212	209	84	88	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	794	788	0.7%	0	0	794	788	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	1,059	1,029	2.9%	0	0	895	879	163	151	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	27,939	27,578	1.3%	3,124	3,575	17,594	16,860	7,220	7,143	0	0
California	23,036	22,665	1.6%	823	1,141	15,238	14,618	6,975	6,906	0	0
Oregon	2,875	2,731	5.3%	740	716	1,890	1,779	245	236	0	0
Washington	2,028	2,182	-7.0%	1,562	1,719	467	464	0	0	0	0
Pacific Noncontiguous	427	346	23.0%	0	0	0	0	427	346	0	0
Alaska	427	346	23.0%	0	0	0	0	427	346	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	133,479	133,283	0.1%	12,175	12,782	109,819	109,089	9,607	9,345	1,879	2,067

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	289	322	-10.0%	0	0	275	305	14	17	0	0
Connecticut	97	110	-12.0%	0	0	97	110	0	0	0	0
Maine	23	27	-17.0%	0	0	9	10	14	17	0	0
Massachusetts	158	173	-8.8%	0	0	158	173	0	0	0	0
New Hampshire	11	11	0.1%	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	462	469	-1.4%	0	0	368	378	95	91	0	0
New Jersey	120	124	-3.5%	0	0	94	97	26	27	0	0
New York	169	173	-2.4%	0	0	126	129	43	44	0	0
Pennsylvania	173	171	1.2%	0	0	148	152	25	19	0	0
East North Central	20	22	-11.0%	3	3	0	0	17	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	1.7%	0	0	0	0	2	2	0	0
Michigan	15	17	-13.0%	0	0	0	0	15	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-9.2%	3	3	0	0	0	0	0	0
West North Central	59	57	4.0%	39	35	20	22	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	59	57	4.0%	39	35	20	22	NM	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	519	443	17.0%	0	0	477	396	42	47	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	344	343	0.3%	0	0	344	343	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	62	53	15.0%	0	0	62	53	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	114	47	143.0%	0	0	71	0	42	47	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	40.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	40.0%	0	0	0	0	0	0	1	1
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	63	59	5.4%	0	0	63	59	0	0	0	0
California	38	45	-16.0%	0	0	38	45	0	0	0	0
Oregon	10	6	66.0%	0	0	10	6	0	0	0	0
Washington	15	8	80.0%	0	0	15	8	0	0	0	0
Pacific Noncontiguous	41	26	59.0%	0	0	0	0	41	26	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	41	26	59.0%	0	0	0	0	41	26	0	0
U.S. Total	1,454	1,399	3.9%	42	38	1,202	1,160	208	199	1	1

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	1,742	1,811	-3.8%	0	0	1,650	1,709	92	102	0	0
Connecticut	574	633	-9.2%	0	0	574	633	0	0	0	0
Maine	148	159	-6.4%	0	0	56	57	92	102	0	0
Massachusetts	958	957	0.1%	0	0	958	957	0	0	0	0
New Hampshire	61	62	-1.5%	0	0	61	62	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,630	2,637	-0.3%	0	0	2,091	2,102	539	535	0	0
New Jersey	718	702	2.3%	0	0	542	528	175	173	0	0
New York	955	963	-0.8%	0	0	713	726	242	237	0	0
Pennsylvania	957	973	-1.6%	0	0	835	847	122	125	0	0
East North Central	115	120	-3.8%	17	19	0	0	98	101	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	10	9	12.0%	0	0	0	0	10	9	0	0
Michigan	88	92	-4.1%	0	0	0	0	88	92	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	17	19	-11.0%	17	19	0	0	0	0	0	0
West North Central	312	299	4.3%	200	180	113	120	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	312	299	4.3%	200	180	113	120	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,816	2,550	10.0%	0	0	2,586	2,291	230	259	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,910	1,923	-0.7%	0	0	1,910	1,923	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	315	302	4.4%	0	0	315	302	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	591	325	82.0%	0	0	361	66	230	259	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	5	2	113.0%	0	0	0	0	0	0	5	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	5	2	113.0%	0	0	0	0	0	0	5	2
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	361	374	-3.6%	0	0	361	374	0	0	0	0
California	225	244	-7.6%	0	0	225	244	0	0	0	0
Oregon	57	54	6.3%	0	0	57	54	0	0	0	0
Washington	78	77	2.2%	0	0	78	77	0	0	0	0
Pacific Noncontiguous	218	203	7.1%	0	0	0	0	218	203	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	218	203	7.1%	0	0	0	0	218	203	0	0
U.S. Total	8,199	7,998	2.5%	216	198	6,800	6,597	1,177	1,199	5	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.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	4,716	5,369	-12.0%	542	770	3,720	4,171	1	1	453	428
Connecticut	355	424	-16.0%	0	0	355	424	0	0	0	0
Maine	2,003	2,093	-4.3%	0	0	1,550	1,665	0	0	453	428
Massachusetts	NM	216	NM	0	0	NM	216	0	0	0	0
New Hampshire	1,835	2,128	-14.0%	358	459	1,477	1,669	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	355	509	-30.0%	184	311	NM	197	1	1	0	0
Middle Atlantic	858	1,163	-26.0%	0	0	626	601	0	0	232	561
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	715	688	3.9%	0	0	626	601	0	0	89	88
Pennsylvania	143	475	-70.0%	0	0	0	1	0	0	143	474
East North Central	2,323	2,138	8.6%	520	394	1,154	1,091	0	0	649	654
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,449	1,389	4.3%	0	0	1,141	1,081	0	0	308	307
Ohio	101	106	-5.0%	0	0	13	10	0	0	87	96
Wisconsin	774	644	20.0%	520	394	0	0	0	0	254	250
West North Central	1,057	956	11.0%	184	195	566	457	39	37	267	268
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,022	922	11.0%	184	195	566	457	4	3	267	268
Missouri	35	34	2.1%	0	0	0	0	35	34	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	10,829	10,128	6.9%	2,837	1,873	2,527	2,933	14	0	5,452	5,322
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	1,980	1,442	37.0%	728	0	517	670	0	0	735	772
Georgia	2,608	2,500	4.3%	0	0	579	653	0	0	2,029	1,847
Maryland	62	37	66.0%	0	0	0	0	14	0	48	37
North Carolina	1,188	1,331	-11.0%	0	0	614	728	0	0	574	603
South Carolina	1,567	1,671	-6.2%	150	159	523	624	0	0	894	888
Virginia	3,424	3,148	8.8%	1,959	1,714	294	259	0	0	1,171	1,175
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,166	3,129	1.2%	0	0	211	205	0	0	2,955	2,923
Alabama	2,060	2,009	2.5%	0	0	211	205	0	0	1,849	1,804
Kentucky	140	137	2.1%	0	0	0	0	0	0	140	137
Mississippi	583	628	-7.1%	0	0	0	0	0	0	583	628
Tennessee	383	355	8.0%	0	0	0	0	0	0	383	355
West South Central	2,893	2,485	16.0%	0	0	420	213	0	0	2,473	2,272
Arkansas	565	583	-3.1%	0	0	0	0	0	0	565	583
Louisiana	1,374	1,272	8.0%	0	0	0	0	0	0	1,374	1,272
Oklahoma	152	45	241.0%	0	0	0	0	0	0	152	45
Texas	802	585	37.0%	0	0	420	213	0	0	382	373
Mountain	576	623	-7.5%	0	0	406	460	0	0	170	163
Arizona	254	325	-22.0%	0	0	254	325	0	0	0	0
Colorado	122	104	17.0%	0	0	122	104	0	0	0	0
Idaho	178	172	3.5%	0	0	30	30	0	0	148	142
Montana	22	21	5.0%	0	0	0	0	0	0	22	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	5,544	5,708	-2.9%	400	462	3,503	3,699	0	0	1,642	1,547
California	3,782	3,821	-1.0%	0	0	3,229	3,416	0	0	553	405
Oregon	616	652	-5.5%	0	0	274	283	0	0	342	370
Washington	1,146	1,235	-7.2%	400	462	0	0	0	0	746	773
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	31,962	31,698	0.8%	4,483	3,694	13,132	13,829	53	38	14,294	14,138

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	27,997	30,079	-6.9%	3,519	4,098	21,772	23,220	14	40	2,692	2,720
Connecticut	2,098	2,260	-7.2%	0	0	2,098	2,260	0	0	0	0
Maine	11,801	12,406	-4.9%	0	0	9,100	9,651	9	35	2,692	2,720
Massachusetts	1,021	1,111	-8.1%	0	0	1,021	1,111	0	0	0	0
New Hampshire	10,299	11,463	-10.0%	1,741	2,332	8,558	9,131	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,779	2,838	-2.1%	1,778	1,766	995	1,067	5	5	0	0
Middle Atlantic	6,494	6,707	-3.2%	0	0	3,507	3,336	0	0	2,987	3,371
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,027	3,866	4.1%	0	0	3,506	3,335	0	0	521	531
Pennsylvania	2,468	2,841	-13.0%	0	0	1	1	0	0	2,467	2,840
East North Central	12,965	12,966	0.0%	2,743	2,650	6,295	6,530	0	0	3,928	3,786
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,079	8,191	-1.4%	0	0	6,220	6,455	0	0	1,858	1,736
Ohio	582	631	-7.8%	0	0	74	75	0	0	508	556
Wisconsin	4,305	4,144	3.9%	2,743	2,650	0	0	0	0	1,562	1,495
West North Central	5,424	5,372	1.0%	1,053	1,081	2,728	2,670	162	179	1,481	1,443
Iowa	1	2	-56.0%	0	0	0	0	1	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	5,286	5,202	1.6%	1,053	1,081	2,728	2,670	24	8	1,481	1,443
Missouri	137	169	-19.0%	0	0	0	0	137	169	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	63,429	61,490	3.2%	13,531	11,475	17,380	18,328	67	27	32,451	31,660
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	10,915	10,216	6.8%	2,173	0	4,239	5,695	0	0	4,502	4,521
Georgia	16,630	15,153	9.7%	0	0	4,327	3,417	0	0	12,303	11,736
Maryland	358	313	15.0%	0	0	0	0	67	27	292	285
North Carolina	7,753	7,647	1.4%	0	0	4,201	4,393	0	0	3,552	3,254
South Carolina	9,130	9,345	-2.3%	965	928	3,043	3,219	0	0	5,122	5,198
Virginia	18,643	18,817	-0.9%	10,393	10,547	1,569	1,604	0	0	6,680	6,666
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	18,230	18,313	-0.5%	0	0	1,231	1,213	0	0	16,999	17,100
Alabama	11,905	11,891	0.1%	0	0	1,231	1,213	0	0	10,674	10,677
Kentucky	835	802	4.1%	0	0	0	0	0	0	835	802
Mississippi	3,370	3,491	-3.5%	0	0	0	0	0	0	3,370	3,491
Tennessee	2,119	2,130	-0.5%	0	0	0	0	0	0	2,119	2,130
West South Central	15,766	14,754	6.9%	0	0	1,316	827	0	0	14,450	13,927
Arkansas	3,511	3,361	4.5%	0	0	0	0	0	0	3,511	3,361
Louisiana	7,744	7,688	0.7%	0	0	0	0	0	0	7,744	7,688
Oklahoma	952	671	42.0%	0	0	3	0	0	0	949	671
Texas	3,558	3,035	17.0%	0	0	1,313	827	0	0	2,245	2,208
Mountain	3,253	3,363	-3.3%	0	0	2,270	2,469	0	0	983	894
Arizona	1,541	1,681	-8.3%	0	0	1,541	1,681	0	0	0	0
Colorado	581	653	-11.0%	0	0	581	653	0	0	0	0
Idaho	1,013	910	11.0%	0	0	147	134	0	0	866	776
Montana	117	118	-1.0%	0	0	0	0	0	0	117	118
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	31,857	32,216	-1.1%	2,334	2,501	19,794	21,061	0	0	9,729	8,654
California	21,215	21,645	-2.0%	0	0	18,257	19,448	0	0	2,957	2,198
Oregon	3,596	3,632	-1.0%	0	0	1,536	1,613	0	0	2,060	2,018
Washington	7,046	6,939	1.5%	2,334	2,501	0	0	0	0	4,712	4,438
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	185,414	185,262	0.1%	23,180	21,805	76,292	79,655	242	246	85,699	83,555

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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 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2008 - June 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	18,895	621	19,740	8,171	440
April	128,980	26,925	1,106	108,171	18,893	655	20,809	8,032	451
May	128,440	27,131	1,111	107,544	18,987	656	20,895	8,144	455
June	121,473	26,715	1,022	101,839	18,577	534	19,634	8,138	488

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, June 2018 and 2017

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	June 2018	June 2017	Percentage Change	June 2018	June 2017	Percentage Change	June 2018	June 2017	Percentage Change
New England	693	W	W	3,134	4,034	-22.3%	0	0	--
Connecticut	W	W	W	1,144	1,488	-23.2%	0	0	--
Maine	0	0	--	217	426	-48.9%	0	0	--
Massachusetts	W	W	W	1,352	1,586	-14.7%	0	0	--
New Hampshire	W	W	W	242	343	-29.6%	0	0	--
Rhode Island	W	W	W	138	149	-7.4%	0	0	--
Vermont	0	0	--	40	42	-5.1%	0	0	--
Middle Atlantic	3,347	4,472	-25.2%	4,624	5,536	-16.5%	0	0	--
New Jersey	145	390	-62.9%	634	641	-1.1%	0	0	--
New York	W	W	W	3,029	3,626	-16.5%	0	0	--
Pennsylvania	W	W	W	962	1,269	-24.2%	0	0	--
East North Central	23,559	32,372	-27.2%	1,052	1,099	-4.2%	W	356	W
Illinois	5,170	7,044	-26.6%	56	75	-26.0%	0	0	--
Indiana	7,551	9,739	-22.5%	94	103	-8.9%	W	W	W
Michigan	3,727	4,616	-19.3%	319	343	-7.0%	W	W	W
Ohio	3,827	6,459	-40.8%	388	373	3.9%	W	W	W
Wisconsin	3,284	4,514	-27.2%	195	203	-4.2%	W	W	W
West North Central	23,632	29,125	-18.9%	744	907	-18.0%	0	0	--
Iowa	5,326	7,104	-25.0%	90	119	-24.5%	0	0	--
Kansas	3,619	4,361	-17.0%	100	114	-12.5%	0	0	--
Minnesota	2,696	3,788	-28.8%	82	119	-31.2%	0	0	--
Missouri	7,783	8,457	-8.0%	318	357	-11.0%	0	0	--
Nebraska	2,487	3,436	-27.6%	90	111	-19.1%	0	0	--
North Dakota	W	W	W	27	37	-26.5%	0	0	--
South Dakota	W	W	W	38	50	-25.1%	0	0	--
South Atlantic	20,055	28,195	-28.9%	10,835	12,310	-12.0%	W	W	W
Delaware	W	W	W	353	392	-10.0%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,725	4,818	-22.7%	4,982	5,606	-11.1%	W	56	W
Georgia	4,289	5,367	-20.1%	753	800	-6.0%	0	0	--
Maryland	884	2,030	-56.4%	573	885	-35.3%	0	0	--
North Carolina	W	5,267	W	1,174	1,246	-5.7%	0	0	--
South Carolina	2,956	4,628	-36.1%	649	696	-6.9%	0	0	--
Virginia	857	W	W	2,234	2,554	-12.5%	0	0	--
West Virginia	3,831	4,442	-13.7%	118	131	-10.0%	W	W	W
East South Central	11,348	15,767	-28.0%	1,741	1,937	-10.2%	W	W	W
Alabama	2,740	3,169	-13.5%	313	330	-5.3%	0	0	--
Kentucky	5,384	8,432	-36.1%	250	240	4.0%	W	W	W
Mississippi	W	978	W	543	560	-3.0%	0	0	--
Tennessee	W	3,189	W	635	806	-21.3%	0	0	--
West South Central	17,482	23,652	-26.1%	1,629	1,727	-5.7%	W	W	W
Arkansas	2,686	2,861	-6.1%	169	182	-7.6%	0	0	--
Louisiana	2,449	2,687	-8.9%	360	387	-6.9%	W	W	W
Oklahoma	3,563	3,823	-6.8%	103	100	3.3%	0	0	--
Texas	8,784	14,281	-38.5%	997	1,058	-5.8%	0	0	--
Mountain	19,839	21,200	-6.4%	375	359	4.5%	W	W	W
Arizona	3,356	3,587	-6.5%	132	124	6.3%	0	0	--
Colorado	4,763	4,101	16.1%	130	119	9.1%	0	0	--
Idaho	0	0	--	0	0	-12.6%	0	0	--
Montana	W	W	W	17	17	0.4%	W	W	W
Nevada	W	W	W	3	5	-48.6%	0	0	--
New Mexico	W	W	W	23	30	-23.9%	0	0	--
Utah	4,771	5,720	-16.6%	40	36	11.0%	0	0	--
Wyoming	4,288	5,105	-16.0%	31	28	11.6%	0	0	--
Pacific Contiguous	W	W	W	355	328	8.3%	0	0	--
California	0	0	--	191	157	21.6%	0	0	--
Oregon	W	W	W	62	70	-11.0%	0	0	--
Washington	W	W	W	101	100	0.9%	0	0	--
Pacific Noncontiguous	W	W	W	2,226	2,312	-3.7%	0	0	--
Alaska	0	0	--	64	165	-61.0%	0	0	--
Hawaii	W	W	W	2,162	2,147	0.7%	0	0	--
U.S. Total	121,473	157,719	-23.0%	26,715	30,549	-12.6%	1,022	868	17.8%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, June 2018 and 2017

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**June 2018**	**June 2017**	**Percentage Change**	**June 2018**	**June 2017**	**June 2018**	**June 2017**
Coal (Thousand Tons)							
New England	693	W	W	W	W	W	W
Middle Atlantic	3,347	4,472	-25.2%	W	0	W	4,472
East North Central	23,559	32,372	-27.2%	15,884	20,846	7,675	11,525
West North Central	23,632	29,125	-18.9%	23,632	29,125	0	0
South Atlantic	20,055	28,195	-28.9%	18,351	25,116	1,704	3,079
East South Central	11,348	15,767	-28.0%	11,348	15,767	0	0
West South Central	17,482	23,652	-26.1%	12,851	14,266	4,630	9,386
Mountain	19,839	21,200	-6.4%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	0	W	W
U.S. Total	**121,473**	**157,719**	**-23.0%**	**101,839**	**126,382**	**19,634**	**31,337**
Petroleum Liquids (Thousand Barrels)							
New England	3,134	4,034	-22.3%	436	635	2,698	3,399
Middle Atlantic	4,624	5,536	-16.5%	1,833	2,259	2,792	3,277
East North Central	1,052	1,099	-4.2%	707	786	345	312
West North Central	744	907	-18.0%	735	884	9	24
South Atlantic	10,835	12,310	-12.0%	9,137	9,956	1,698	2,354
East South Central	1,741	1,937	-10.2%	1,667	1,864	73	73
West South Central	1,629	1,727	-5.7%	1,275	1,327	353	400
Mountain	375	359	4.5%	346	328	30	31
Pacific Contiguous	355	328	8.3%	253	231	101	96
Pacific Noncontiguous	2,226	2,312	-3.7%	2,188	2,273	39	38
U.S. Total	**26,715**	**30,549**	**-12.6%**	**18,577**	**20,545**	**8,138**	**10,004**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	356	W	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	56	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	**1,022**	**868**	**17.8%**	**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 - June 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
April	51,011	74,644	3,324	128,980
May	51,902	73,326	3,212	128,440
June	48,899	69,383	3,191	121,473

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 - June 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
April	819,193	42,660	2.07	39.76	1.32	102.2	6,190	1,020	13.71	83.21	0.41	61.5
May	896,833	46,365	2.05	39.69	1.36	95.2	8,731	1,441	14.29	86.68	0.34	74.5
June	931,118	48,533	2.05	39.26	1.35	84.9	8,103	1,346	15.01	90.40	0.32	66.4
Year to Date												
2016	5,615,155	290,080	2.13	41.31	1.40	94.2	49,466	8,194	8.46	51.07	0.46	66.9
2017	5,938,917	308,606	2.10	40.38	1.31	95.9	47,333	7,889	11.53	69.16	0.49	70.7
2018	5,389,788	281,265	2.06	39.45	1.31	91.8	70,917	11,762	13.72	82.96	0.42	64.1
Rolling 12 Months Ending in June												
2017	12,840,035	669,297	2.10	40.23	1.31	94.6	99,677	16,502	W	W	0.50	70.0
2018	11,593,621	606,776	2.06	39.28	1.28	91.5	117,591	19,492	W	W	0.45	62.7

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

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

- Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - June 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
April	6,564	232	2.56	72.38	6.09	78.4	705,836	684,139	3.13	3.23	83.5	2.58
May	4,344	152	2.41	68.58	6.09	64.6	818,069	792,700	3.04	3.14	82.4	2.56
June	7,382	260	2.73	77.61	5.97	70.0	927,681	898,443	3.11	3.21	84.1	2.61
Year to Date												
2016	56,983	2,028	1.36	38.16	5.39	75.1	5,011,454	4,849,767	2.58	2.66	90.6	2.35
2017	44,548	1,589	W	W	5.55	73.5	3,739,625	3,619,212	3.53	3.65	76.5	W
2018	40,908	1,450	2.52	70.96	5.72	75.1	4,667,081	4,520,191	3.51	3.62	83.6	2.77
Rolling 12 Months Ending in June												
2017	104,507	3,728	W	W	5.47	77.4	9,347,277	9,040,625	3.30	3.41	84.5	W
2018	89,197	3,170	W	W	5.64	78.5	9,247,882	8,951,499	3.39	3.50	79.4	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 - June 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
April	606,452	31,464	2.12	40.91	1.22	102.9	5,034	826	13.61	83.01	0.36	73.0
May	662,814	34,228	2.10	40.66	1.23	96.5	6,271	1,028	14.30	87.26	0.29	78.8
June	693,365	36,117	2.10	40.34	1.20	84.6	5,985	986	14.68	89.15	0.28	72.8
Year to Date												
2016	4,201,804	215,063	2.17	42.43	1.25	96.1	36,377	5,976	8.27	50.37	0.41	75.8
2017	4,352,749	224,519	2.14	41.44	1.20	96.8	36,381	6,035	11.33	68.28	0.48	77.6
2018	3,991,177	207,828	2.10	40.34	1.18	93.0	42,885	7,066	13.68	83.08	0.37	68.4
Rolling 12 Months Ending in June												
2017	9,407,823	485,663	2.14	41.56	1.19	95.7	73,298	12,044	10.68	64.97	0.49	74.8
2018	8,590,647	447,472	2.10	40.38	1.16	93.4	75,052	12,349	12.88	78.31	0.41	67.3

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Notes:
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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 - June 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
April	6,564	232	2.56	72.38	6.09	119.0	335,447	325,388	3.31	3.41	89.1	2.60
May	4,344	152	2.41	68.58	6.09	108.3	397,579	385,175	3.25	3.35	85.4	2.60
June	7,382	260	2.73	77.61	5.97	96.2	465,417	451,014	3.27	3.37	87.6	2.63
Year to Date												
2016	48,778	1,729	1.19	33.56	5.37	96.7	2,416,555	2,338,579	2.84	2.93	97.2	2.44
2017	44,277	1,580	2.07	57.95	5.55	113.5	1,810,327	1,752,432	3.74	3.87	82.6	2.65
2018	40,908	1,450	2.52	70.96	5.72	108.5	2,257,849	2,187,610	3.71	3.82	88.3	2.75
Rolling 12 Months Ending in June												
2017	95,205	3,389	1.94	54.63	5.47	111.6	4,469,109	4,321,391	3.56	3.68	90.5	2.64
2018	87,112	3,094	2.36	66.51	5.63	115.2	4,437,705	4,297,033	3.64	3.76	83.4	2.68

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - June 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	111.6
April	199,704	10,574	1.88	35.57	1.61	105.1	1,003	170	W	W	0.44	48.5
May	219,907	11,453	1.88	36.06	1.78	94.6	2,311	389	14.24	85.04	0.48	89.0
June	223,656	11,737	1.85	35.21	1.84	87.4	2,011	344	16.11	94.38	0.43	79.3
Year to Date												
2016	1,305,930	70,035	1.97	36.68	1.86	91.7	11,667	1,989	8.86	52.02	0.47	67.5
2017	1,492,699	79,649	1.95	36.63	1.66	96.6	10,069	1,713	12.28	72.21	0.46	75.3
2018	1,313,047	69,327	1.90	36.01	1.71	91.4	26,795	4,498	13.85	82.92	0.46	70.2
Rolling 12 Months Ending in June												
2017	3,234,127	174,262	1.92	35.72	1.64	93.9	24,378	4,134	W	W	0.47	79.5
2018	2,827,272	150,906	1.88	35.32	1.67	88.7	40,334	6,788	W	W	0.47	68.4

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

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

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - June 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
April	0	0	--	--	--	0.0	309,434	299,510	2.93	3.03	87.4	W
May	0	0	--	--	--	0.0	357,868	346,719	2.77	2.86	86.7	2.43
June	0	0	--	--	--	0.0	397,445	384,414	2.87	2.96	87.5	2.49
Year to Date												
2016	6,013	219	2.50	68.75	5.43	68.8	2,230,978	2,158,104	2.28	2.35	94.0	W
2017	0	0	--	--	--	0.0	1,600,653	1,548,506	3.29	3.40	79.6	2.60
2018	0	0	--	--	--	0.0	2,030,988	1,965,300	3.32	3.43	87.6	2.78
Rolling 12 Months Ending in June												
2017	7,560	274	W	W	5.45	41.2	4,161,404	4,024,919	2.97	3.07	87.9	W
2018	0	0	--	--	--	0.0	4,093,622	3,959,680	3.10	3.21	83.3	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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- Totals may not equal the sum of components because of independent rounding.

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2008 - June 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
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2016	434	19	W	W	2.92	5.4	0	0	--	--	--	0.0
2017	336	15	W	W	3.00	4.8	0	0	--	--	--	0.0
2018	130	6	W	W	3.13	1.9	0	0	--	--	--	0.0
Rolling 12 Months Ending in June												
2017	1,190	52	W	W	3.06	8.3	0	0	--	--	--	0.0
2018	342	15	W	W	3.04	2.5	0	0	--	--	--	0.0

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2008 - June 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
April	0	0	--	--	--	0.0	732	713	W	W	7.4	W
May	0	0	--	--	--	0.0	776	758	W	W	8.0	W
June	0	0	--	--	--	0.0	670	650	W	W	6.5	W
Year to Date												
2016	0	0	--	--	--	0.0	4,125	4,029	W	W	6.7	W
2017	0	0	--	--	--	0.0	3,601	3,492	W	W	5.9	W
2018	0	0	--	--	--	0.0	4,499	4,374	W	W	7.2	W
Rolling 12 Months Ending in June												
2017	0	0	--	--	--	0.0	7,482	7,228	W	W	5.7	W
2018	0	0	--	--	--	0.0	8,739	8,475	W	W	6.9	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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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - June 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
April	13,037	622	2.53	53.03	1.29	59.7	153	24	W	W	1.23	17.6
May	14,112	684	2.53	52.15	1.18	64.0	149	24	14.33	87.27	1.47	16.0
June	14,097	679	2.50	51.83	1.23	67.7	107	17	13.54	84.39	1.48	8.4
Year to Date												
2016	106,987	4,964	W	W	1.35	66.6	1,423	230	9.90	61.26	1.33	18.4
2017	93,133	4,424	W	W	1.21	65.0	883	142	11.18	69.71	1.21	16.4
2018	85,435	4,104	W	W	1.22	61.4	1,238	198	12.80	79.93	1.31	16.4
Rolling 12 Months Ending in June												
2017	196,895	9,319	W	W	1.23	66.2	2,001	324	W	W	1.20	17.3
2018	175,360	8,383	W	W	1.29	63.0	2,205	354	W	W	1.45	16.3

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - June 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
April	0	0	--	--	--	0.0	60,223	58,528	W	W	57.4	W
May	0	0	--	--	--	0.0	61,846	60,048	W	W	58.9	W
June	0	0	--	--	--	0.0	64,149	62,365	W	W	59.9	W
Year to Date												
2016	2,192	80	W	W	5.87	13.7	359,797	349,054	W	W	59.1	W
2017	271	9	W	W	5.75	2.0	325,044	314,782	W	W	52.2	W
2018	0	0	--	--	--	0.0	373,745	362,907	W	W	58.2	W
Rolling 12 Months Ending in June												
2017	1,743	64	W	W	5.78	5.9	709,282	687,086	W	W	56.2	W
2018	2,085	76	W	W	5.85	8.4	707,816	686,311	W	W	55.0	W

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	3	2	50.0%	0	0	3	2	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	2	50.0%	0	0	3	2	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	1,660	1,829	-9.3%	0	0	1,649	1,802	0	0	11	28
New Jersey	47	66	-29.0%	0	0	47	66	0	0	0	0
New York	28	41	-31.0%	0	0	28	25	0	0	0	16
Pennsylvania	1,584	1,722	-8.0%	0	0	1,573	1,711	0	0	11	11
East North Central	10,821	11,847	-8.7%	6,333	7,844	4,310	3,839	0	0	179	164
Illinois	2,945	3,021	-2.5%	492	635	2,300	2,236	0	0	152	150
Indiana	2,381	2,645	-10.0%	2,214	2,560	167	85	0	0	0	0
Michigan	1,948	2,476	-21.0%	1,930	2,458	18	18	0	0	0	0
Ohio	2,039	2,037	0.1%	215	537	1,824	1,500	0	0	0	0
Wisconsin	1,508	1,668	-9.6%	1,481	1,654	0	0	0	0	27	14
West North Central	9,383	9,112	3.0%	9,113	8,827	0	0	0	1	270	284
Iowa	1,296	1,423	-8.9%	1,090	1,218	0	0	0	0	206	205
Kansas	1,087	834	30.0%	1,087	834	0	0	0	0	0	0
Minnesota	849	1,006	-16.0%	849	1,006	0	0	0	0	0	0
Missouri	2,995	2,859	4.8%	2,995	2,858	0	0	0	1	0	0
Nebraska	1,098	1,128	-2.6%	1,034	1,049	0	0	0	0	64	79
North Dakota	1,915	1,749	9.5%	1,915	1,749	0	0	0	0	0	0
South Dakota	142	114	25.0%	142	114	0	0	0	0	0	0
South Atlantic	6,196	7,810	-21.0%	5,372	7,157	766	586	0	0	58	67
Delaware	0	12	-100.0%	0	0	0	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,001	1,505	-33.0%	996	1,494	0	0	0	0	5	11
Georgia	1,187	1,502	-21.0%	1,187	1,489	0	0	0	0	0	12
Maryland	426	280	52.0%	0	0	415	267	0	0	11	13
North Carolina	798	1,068	-25.0%	779	1,047	2	2	0	0	17	19
South Carolina	456	615	-26.0%	456	615	0	0	0	0	0	0
Virginia	308	437	-29.0%	239	391	45	34	0	0	24	12
West Virginia	2,018	2,391	-16.0%	1,715	2,119	303	272	0	0	0	0
East South Central	5,198	5,500	-5.5%	4,826	5,226	303	196	0	0	69	77
Alabama	1,324	1,427	-7.2%	1,324	1,427	0	0	0	0	0	0
Kentucky	2,785	2,668	4.4%	2,785	2,668	0	0	0	0	0	0
Mississippi	433	353	23.0%	130	157	303	196	0	0	0	0
Tennessee	656	1,052	-38.0%	587	975	0	0	0	0	69	77
West South Central	8,610	10,060	-14.0%	4,655	4,677	3,916	5,347	0	0	39	36
Arkansas	1,277	1,371	-6.8%	1,038	1,218	232	148	0	0	8	5
Louisiana	657	717	-8.3%	495	453	162	264	0	0	0	0
Oklahoma	652	703	-7.2%	569	589	52	83	0	0	31	30
Texas	6,023	7,269	-17.0%	2,553	2,416	3,470	4,853	0	0	0	0
Mountain	6,413	6,945	-7.7%	5,790	6,358	623	566	0	0	0	20
Arizona	1,310	1,189	10.0%	1,310	1,189	0	0	0	0	0	0
Colorado	1,312	1,302	0.8%	1,312	1,302	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	540	449	20.0%	21	25	519	424	0	0	0	0
Nevada	108	61	77.0%	85	0	23	61	0	0	0	0
New Mexico	651	901	-28.0%	651	901	0	0	0	0	0	0
Utah	980	1,058	-7.4%	943	1,002	37	36	0	0	0	20
Wyoming	1,512	1,986	-24.0%	1,468	1,940	44	46	0	0	0	0
Pacific Contiguous	173	334	-48.0%	14	0	105	290	0	0	54	44
California	54	44	23.0%	0	0	0	0	0	0	54	44
Oregon	14	0	--	14	0	0	0	0	0	0	0
Washington	105	290	-64.0%	0	0	105	290	0	0	0	0
Pacific Noncontiguous	76	61	26.0%	14	0	62	61	0	0	0	0
Alaska	14	0	--	14	0	0	0	0	0	0	0
Hawaii	62	61	2.6%	0	0	62	61	0	0	0	0
U.S. Total	48,533	53,498	-9.3%	36,117	40,089	11,737	12,689	0	1	679	720

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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) June 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	147	166	-11.0%	45	45	102	121	0	0	0	0
Connecticut	67	0	--	0	0	67	0	0	0	0	0
Maine	34	34	0.4%	0	0	34	34	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	9,787	10,183	-3.9%	0	0	9,724	9,994	0	0	63	189
New Jersey	320	319	0.2%	0	0	320	319	0	0	0	0
New York	200	218	-8.0%	0	0	191	95	0	0	9	123
Pennsylvania	9,267	9,647	-3.9%	0	0	9,213	9,581	0	0	55	66
East North Central	63,967	66,880	-4.4%	38,035	40,284	24,951	25,606	0	0	981	990
Illinois	20,358	19,765	3.0%	4,032	4,011	15,389	14,809	0	0	937	945
Indiana	14,407	14,098	2.2%	13,441	13,390	966	708	0	0	0	0
Michigan	9,129	10,610	-14.0%	9,045	10,516	80	90	0	0	3	5
Ohio	11,099	13,235	-16.0%	2,583	3,236	8,517	10,000	0	0	0	0
Wisconsin	8,974	9,171	-2.2%	8,934	9,131	0	0	0	0	40	40
West North Central	53,855	54,078	-0.4%	52,256	52,411	0	0	6	15	1,593	1,653
Iowa	6,921	6,801	1.8%	5,798	5,719	0	0	0	0	1,123	1,082
Kansas	5,437	5,244	3.7%	5,437	5,244	0	0	0	0	0	0
Minnesota	5,486	5,957	-7.9%	5,427	5,765	0	0	0	0	59	192
Missouri	17,461	17,979	-2.9%	17,455	17,964	0	0	6	15	0	0
Nebraska	5,947	6,365	-6.6%	5,536	5,985	0	0	0	0	411	379
North Dakota	11,775	11,085	6.2%	11,775	11,085	0	0	0	0	0	0
South Dakota	829	648	28.0%	829	648	0	0	0	0	0	0
South Atlantic	37,546	44,895	-16.0%	31,833	39,470	5,225	4,897	0	0	488	528
Delaware	0	200	-100.0%	0	0	0	200	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,646	7,826	-28.0%	5,596	7,740	0	13	0	0	50	74
Georgia	6,500	8,555	-24.0%	6,432	8,503	0	0	0	0	68	53
Maryland	2,146	2,013	6.6%	0	0	2,042	1,913	0	0	105	100
North Carolina	5,482	6,671	-18.0%	5,314	6,470	37	30	0	0	132	171
South Carolina	2,800	3,446	-19.0%	2,797	3,427	0	0	0	0	3	19
Virginia	2,386	3,033	-21.0%	1,999	2,729	256	192	0	0	130	111
West Virginia	12,586	13,151	-4.3%	9,695	10,601	2,891	2,550	0	0	0	0
East South Central	28,077	30,920	-9.2%	26,124	29,054	1,477	1,372	0	0	476	494
Alabama	7,951	7,491	6.1%	7,951	7,491	0	0	0	0	0	0
Kentucky	15,083	17,233	-12.0%	15,083	17,233	0	0	0	0	0	0
Mississippi	2,207	1,868	18.0%	730	496	1,477	1,372	0	0	0	0
Tennessee	2,836	4,328	-34.0%	2,361	3,834	0	0	0	0	476	494
West South Central	47,947	57,375	-16.0%	25,743	25,151	22,004	31,990	0	0	199	234
Arkansas	7,418	5,815	28.0%	5,988	5,433	1,382	345	0	0	48	37
Louisiana	3,361	4,364	-23.0%	2,147	2,657	1,214	1,708	0	0	0	0
Oklahoma	4,446	4,251	4.6%	3,838	3,569	458	485	0	0	151	197
Texas	32,721	42,944	-24.0%	13,770	13,492	18,952	29,452	0	0	0	0
Mountain	38,195	42,155	-9.4%	33,687	37,865	4,508	4,261	0	0	0	29
Arizona	7,882	7,630	3.3%	7,882	7,630	0	0	0	0	0	0
Colorado	7,150	7,731	-7.5%	7,150	7,731	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,911	3,651	7.1%	92	137	3,818	3,514	0	0	0	0
Nevada	320	288	11.0%	85	0	235	288	0	0	0	0
New Mexico	3,020	5,428	-44.0%	3,020	5,428	0	0	0	0	0	0
Utah	5,477	6,012	-8.9%	5,275	5,785	202	198	0	0	0	29
Wyoming	10,436	11,416	-8.6%	10,183	11,155	252	261	0	0	0	0
Pacific Contiguous	1,290	1,579	-18.0%	14	165	971	1,107	0	0	305	307
California	305	307	-0.9%	0	0	0	0	0	0	305	307
Oregon	14	165	-92.0%	14	165	0	0	0	0	0	0
Washington	971	1,107	-12.0%	0	0	971	1,107	0	0	0	0
Pacific Noncontiguous	454	375	21.0%	90	75	364	300	0	0	0	0
Alaska	90	75	20.0%	90	75	0	0	0	0	0	0
Hawaii	364	300	21.0%	0	0	364	300	0	0	0	0
U.S. Total	281,265	308,606	-8.9%	207,828	224,519	69,327	79,649	6	15	4,104	4,424

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	54	1	NM	1	0	53	0	0	0	0	0
Connecticut	53	0	--	0	0	53	0	0	0	0	0
Maine	0	0	-88.0%	0	0	0	0	0	0	0	0
Massachusetts	0	0	-44.0%	0	0	0	0	0	0	0	0
New Hampshire	1	0	479.0%	1	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	152	36	326.0%	96	1	52	28	0	0	4	7
New Jersey	8	1	NM	0	0	8	1	0	0	0	0
New York	98	8	NM	96	1	2	4	0	0	0	2
Pennsylvania	46	27	68.0%	0	0	42	23	0	0	4	5
East North Central	73	73	0.5%	43	57	29	14	0	0	1	2
Illinois	7	7	9.6%	1	1	7	6	0	0	0	0
Indiana	20	27	-26.0%	20	27	0	0	0	0	0	0
Michigan	15	10	45.0%	14	9	0	0	0	0	1	1
Ohio	25	20	26.0%	2	12	23	8	0	0	0	1
Wisconsin	7	10	-30.0%	7	10	0	0	0	0	0	0
West North Central	60	42	44.0%	60	42	0	0	0	0	0	0
Iowa	10	11	-6.2%	10	11	0	0	0	0	0	0
Kansas	7	7	1.5%	7	7	0	0	0	0	0	0
Minnesota	9	5	69.0%	9	5	0	0	0	0	0	0
Missouri	23	6	295.0%	23	6	0	0	0	0	0	0
Nebraska	1	0	399.0%	1	0	0	0	0	0	0	0
North Dakota	9	13	-34.0%	9	13	0	0	0	0	0	0
South Dakota	2	0	--	2	0	0	0	0	0	0	0
South Atlantic	214	172	24.0%	170	137	32	21	0	0	13	14
Delaware	4	2	101.0%	0	0	4	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	22	19	18.0%	19	16	0	0	0	0	4	3
Georgia	16	17	-4.9%	13	15	0	0	0	0	4	2
Maryland	27	17	60.0%	0	0	27	17	0	0	0	0
North Carolina	20	15	36.0%	17	12	0	0	0	0	3	3
South Carolina	11	11	-0.6%	9	8	0	0	0	0	2	3
Virginia	93	72	29.0%	92	67	2	2	0	0	0	3
West Virginia	21	20	6.0%	21	20	0	0	0	0	0	0
East South Central	23	35	-35.0%	23	35	0	0	0	0	0	0
Alabama	7	3	161.0%	7	3	0	0	0	0	0	0
Kentucky	7	13	-45.0%	7	13	0	0	0	0	0	0
Mississippi	3	2	70.0%	3	2	0	0	0	0	0	0
Tennessee	6	18	-67.0%	6	18	0	0	0	0	0	0
West South Central	19	15	29.0%	17	6	2	9	0	0	0	0
Arkansas	5	7	-22.0%	4	2	1	5	0	0	0	0
Louisiana	2	0	--	2	0	0	0	0	0	0	0
Oklahoma	1	0	--	1	0	0	0	0	0	0	0
Texas	11	8	39.0%	10	4	1	4	0	0	0	0
Mountain	19	11	70.0%	17	11	2	0	0	0	0	0
Arizona	6	1	NM	6	1	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	2	4	-53.0%	1	4	1	0	0	0	0	0
New Mexico	0	2	-84.0%	0	2	0	0	0	0	0	0
Utah	2	2	38.0%	2	2	0	0	0	0	0	0
Wyoming	7	3	146.0%	7	3	0	0	0	0	0	0
Pacific Contiguous	1	0	--	0	0	1	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	0	--	0	0	1	0	0	0	0	0
Pacific Noncontiguous	731	812	-9.9%	559	626	172	186	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	731	812	-10.0%	559	626	172	186	0	0	0	0
U.S. Total	1,346	1,196	13.0%	986	915	344	258	0	0	17	23

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	1,139	192	493.0%	115	9	1,024	183	0	0	0	0
Connecticut	183	20	826.0%	0	0	183	20	0	0	0	0
Maine	253	85	198.0%	0	0	253	85	0	0	0	0
Massachusetts	420	78	438.0%	12	0	408	78	0	0	0	0
New Hampshire	183	9	NM	103	9	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	2,651	468	467.0%	839	172	1,765	248	0	0	47	48
New Jersey	176	3	NM	0	0	176	3	0	0	0	0
New York	1,899	273	597.0%	839	172	1,048	83	0	0	12	17
Pennsylvania	577	193	199.0%	0	0	541	162	0	0	36	31
East North Central	418	378	11.0%	232	227	171	137	0	0	15	14
Illinois	42	48	-12.0%	2	2	40	46	0	0	0	0
Indiana	87	100	-13.0%	86	100	1	0	0	0	0	0
Michigan	83	61	36.0%	79	54	0	0	0	0	4	7
Ohio	163	147	12.0%	33	49	119	90	0	0	11	8
Wisconsin	42	21	93.0%	31	21	11	0	0	0	0	0
West North Central	270	221	22.0%	270	221	0	0	0	0	0	0
Iowa	73	55	33.0%	73	55	0	0	0	0	0	0
Kansas	48	49	-1.2%	48	49	0	0	0	0	0	0
Minnesota	15	15	0.7%	15	15	0	0	0	0	0	0
Missouri	91	44	108.0%	91	44	0	0	0	0	0	0
Nebraska	3	0	NM	3	0	0	0	0	0	0	0
North Dakota	36	53	-32.0%	36	53	0	0	0	0	0	0
South Dakota	4	5	-24.0%	4	5	0	0	0	0	0	0
South Atlantic	2,572	1,772	45.0%	1,803	1,561	636	136	0	0	134	75
Delaware	75	8	848.0%	0	0	75	8	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	270	1,150	-77.0%	246	1,134	0	0	0	0	24	17
Georgia	163	94	72.0%	108	73	25	3	0	0	29	18
Maryland	387	68	469.0%	0	0	387	68	0	0	0	0
North Carolina	645	158	309.0%	617	140	0	1	0	0	27	17
South Carolina	263	61	331.0%	188	48	43	0	0	0	33	13
Virginia	613	149	312.0%	506	82	85	56	0	0	21	10
West Virginia	157	85	85.0%	137	85	20	0	0	0	0	0
East South Central	202	203	-0.3%	142	195	58	4	0	0	2	4
Alabama	98	25	288.0%	40	21	58	4	0	0	0	0
Kentucky	61	91	-33.0%	61	91	0	0	0	0	0	0
Mississippi	12	10	22.0%	12	10	0	0	0	0	0	0
Tennessee	32	77	-59.0%	30	73	0	0	0	0	2	4
West South Central	94	121	-22.0%	74	48	20	73	0	0	0	0
Arkansas	29	51	-44.0%	22	16	7	35	0	0	0	0
Louisiana	5	0	--	5	0	0	0	0	0	0	0
Oklahoma	16	3	375.0%	16	3	0	0	0	0	0	0
Texas	44	67	-34.0%	31	29	13	38	0	0	0	0
Mountain	144	171	-16.0%	132	158	12	13	0	0	0	0
Arizona	48	31	52.0%	48	31	0	0	0	0	0	0
Colorado	4	1	287.0%	4	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	8	2.4%	0	0	8	8	0	0	0	0
Nevada	8	8	0.6%	5	4	3	4	0	0	0	0
New Mexico	9	35	-74.0%	9	35	0	0	0	0	0	0
Utah	42	42	-1.7%	40	40	1	2	0	0	0	0
Wyoming	25	46	-44.0%	25	46	0	0	0	0	0	0
Pacific Contiguous	3	14	-79.0%	0	7	3	7	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	3	7	-58.0%	0	0	3	7	0	0	0	0
Pacific Noncontiguous	4,269	4,350	-1.9%	3,459	3,437	810	913	0	0	0	0
Alaska	0	1	-50.0%	0	1	0	0	0	0	0	0
Hawaii	4,269	4,349	-1.9%	3,459	3,437	810	913	0	0	0	0
U.S. Total	11,762	7,889	49.0%	7,066	6,035	4,498	1,713	0	0	198	142

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 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	41	47	-13.0%	41	47	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	36	41	-11.0%	36	41	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	5	6	-26.0%	5	6	0	0	0	0	0	0
West North Central	0	9	-100.0%	0	0	0	0	0	0	0	9
Iowa	0	9	-100.0%	0	0	0	0	0	0	0	9
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	75	82	-7.8%	75	82	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	75	82	-7.8%	75	82	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	3	-100.0%	0	3	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	3	-100.0%	0	3	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	143	166	-14.0%	143	166	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	143	166	-14.0%	143	166	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	260	308	-16.0%	260	298	0	0	0	0	0	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:
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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) June 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 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	303	243	25.0%	303	243	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	274	228	20.0%	274	228	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	29	16	87.0%	29	16	0	0	0	0	0	0
West North Central	0	9	-100.0%	0	0	0	0	0	0	0	9
Iowa	0	9	-100.0%	0	0	0	0	0	0	0	9
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	450	282	60.0%	450	282	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	450	282	60.0%	450	282	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	117	-100.0%	0	117	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	117	-100.0%	0	117	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	697	937	-26.0%	697	937	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	697	937	-26.0%	697	937	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,450	1,589	-8.8%	1,450	1,580	0	0	0	0	0	9

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	26,335	23,005	14.0%	106	181	26,229	22,824	0	0	0	0
Connecticut	10,763	7,221	49.0%	0	0	10,763	7,221	0	0	0	0
Maine	1,111	1	NM	0	0	1,111	1	0	0	0	0
Massachusetts	8,447	11,896	-29.0%	69	129	8,378	11,767	0	0	0	0
New Hampshire	3,043	2,506	21.0%	37	52	3,006	2,454	0	0	0	0
Rhode Island	2,972	1,381	115.0%	0	0	2,972	1,381	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	95,332	78,600	21.0%	9,123	8,117	85,364	70,108	0	0	845	375
New Jersey	20,822	13,821	51.0%	0	0	20,822	13,821	0	0	0	0
New York	30,672	30,248	1.4%	9,123	8,117	20,932	21,905	0	0	617	226
Pennsylvania	43,839	34,531	27.0%	0	0	43,611	34,382	0	0	228	149
East North Central	71,622	50,752	41.0%	25,477	19,723	44,565	29,682	501	452	1,079	895
Illinois	6,989	6,766	3.3%	1,037	18	5,946	6,745	0	0	5	2
Indiana	16,003	8,441	90.0%	7,760	7,586	8,242	856	0	0	0	0
Michigan	18,527	15,098	23.0%	5,779	3,298	11,758	11,009	501	452	489	339
Ohio	21,904	14,681	49.0%	4,059	4,370	17,455	9,974	0	0	389	337
Wisconsin	8,200	5,766	42.0%	6,841	4,451	1,163	1,098	0	0	196	217
West North Central	17,635	4,580	285.0%	15,330	4,307	1,684	45	150	143	471	86
Iowa	6,820	1,742	292.0%	6,359	1,667	0	0	0	0	462	75
Kansas	2,768	1,704	62.0%	2,768	1,704	0	0	0	0	0	0
Minnesota	3,103	104	NM	3,018	47	75	45	1	0	9	11
Missouri	4,579	614	646.0%	2,821	472	1,609	0	149	142	0	0
Nebraska	284	235	21.0%	284	235	0	0	0	0	0	0
North Dakota	80	182	-56.0%	80	182	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	228,867	194,258	18.0%	189,284	162,667	36,672	28,875	0	0	2,910	2,717
Delaware	1,835	3,333	-45.0%	0	0	1,835	3,333	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	112,381	97,243	16.0%	107,504	95,399	4,504	1,714	0	0	374	129
Georgia	30,267	26,941	12.0%	22,887	21,489	6,655	4,841	0	0	725	612
Maryland	7,535	3,919	92.0%	2,519	0	4,729	3,700	0	0	287	218
North Carolina	26,855	21,348	26.0%	23,579	18,676	3,033	2,473	0	0	243	200
South Carolina	16,113	9,540	69.0%	12,830	8,444	3,205	1,031	0	0	78	64
Virginia	32,733	30,453	7.5%	19,951	18,527	11,991	11,128	0	0	792	798
West Virginia	1,147	1,482	-23.0%	14	132	721	655	0	0	412	695
East South Central	83,731	66,825	25.0%	55,401	44,401	26,796	20,971	0	0	1,533	1,453
Alabama	35,710	28,355	26.0%	12,478	9,603	23,232	18,752	0	0	0	0
Kentucky	7,555	4,907	54.0%	7,393	4,696	163	211	0	0	0	0
Mississippi	30,875	25,857	19.0%	27,474	23,849	3,402	2,008	0	0	0	0
Tennessee	9,590	7,706	24.0%	8,057	6,253	0	0	0	0	1,533	1,453
West South Central	261,143	208,382	25.0%	82,752	51,017	125,243	112,939	0	0	53,149	44,426
Arkansas	12,391	7,454	66.0%	11,101	8	1,130	7,334	0	0	160	112
Louisiana	42,275	39,256	7.7%	22,346	20,278	3,690	2,200	0	0	16,240	16,779
Oklahoma	32,004	21,730	47.0%	20,160	11,922	11,583	9,586	0	0	262	223
Texas	174,474	139,941	25.0%	29,145	18,810	108,841	93,819	0	0	36,488	27,313
Mountain	68,823	63,711	8.0%	55,615	49,818	13,160	13,840	0	0	49	53
Arizona	26,471	27,301	-3.0%	17,445	17,154	9,026	10,148	0	0	0	0
Colorado	11,129	7,923	40.0%	9,559	6,806	1,570	1,117	0	0	0	0
Idaho	755	0	--	755	0	0	0	0	0	0	0
Montana	213	226	-5.9%	213	226	0	0	0	0	0	0
Nevada	17,622	17,681	-0.3%	17,622	17,681	0	0	0	0	0	0
New Mexico	8,629	7,316	18.0%	6,065	4,893	2,563	2,422	0	0	0	0
Utah	3,892	3,190	22.0%	3,844	2,985	0	152	0	0	49	53
Wyoming	112	74	52.0%	112	74	1	0	0	0	0	0
Pacific Contiguous	44,950	47,727	-5.8%	17,921	16,312	24,700	28,780	0	0	2,328	2,635
California	38,103	45,837	-17.0%	13,993	15,611	21,781	27,591	0	0	2,328	2,635
Oregon	3,779	1,489	154.0%	1,917	299	1,861	1,190	0	0	0	0
Washington	3,069	402	663.0%	2,010	402	1,058	0	0	0	0	0
Pacific Noncontiguous	5	151	-97.0%	5	151	0	0	0	0	0	0
Alaska	5	151	-97.0%	5	151	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	898,443	737,993	22.0%	451,014	356,694	384,414	328,064	650	595	62,365	52,640

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	131,251	126,621	3.7%	154	441	131,097	126,180	0	0	0	0
Connecticut	54,322	45,187	20.0%	0	0	54,322	45,187	0	0	0	0
Maine	4,426	16	NM	0	0	4,426	16	0	0	0	0
Massachusetts	52,908	63,751	-17.0%	105	201	52,803	63,551	0	0	0	0
New Hampshire	5,911	11,336	-48.0%	49	240	5,862	11,096	0	0	0	0
Rhode Island	13,685	6,330	116.0%	0	0	13,685	6,330	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	476,021	390,156	22.0%	38,184	37,716	432,605	350,633	0	0	5,232	1,807
New Jersey	110,985	71,151	56.0%	0	0	110,985	71,151	0	0	0	0
New York	145,078	147,633	-1.7%	38,184	37,716	103,175	109,232	0	0	3,719	684
Pennsylvania	219,957	171,372	28.0%	0	0	218,444	170,249	0	0	1,513	1,123
East North Central	400,627	273,944	46.0%	147,858	103,363	241,794	160,486	3,306	2,869	7,669	7,227
Illinois	30,269	31,081	-2.6%	2,929	104	27,322	30,952	0	0	19	25
Indiana	74,199	50,687	46.0%	38,179	42,060	36,021	8,628	0	0	0	0
Michigan	121,705	82,714	47.0%	34,379	16,185	80,570	60,590	3,306	2,869	3,450	3,070
Ohio	125,701	82,126	53.0%	28,817	23,553	94,125	55,954	0	0	2,759	2,620
Wisconsin	48,753	27,335	78.0%	43,556	21,462	3,757	4,363	0	0	1,441	1,511
West North Central	81,188	16,759	384.0%	70,190	14,751	7,741	74	1,068	623	2,189	1,311
Iowa	29,524	6,018	391.0%	27,360	4,775	0	0	0	0	2,165	1,243
Kansas	11,780	6,328	86.0%	11,780	6,328	0	0	0	0	0	0
Minnesota	17,975	373	NM	17,477	228	470	74	3	4	24	67
Missouri	20,512	2,410	751.0%	12,177	1,790	7,271	0	1,064	619	0	0
Nebraska	1,096	813	35.0%	1,096	813	0	0	0	0	0	0
North Dakota	300	817	-63.0%	300	817	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,131,563	991,674	14.0%	932,917	843,084	181,239	131,789	0	0	17,407	16,801
Delaware	14,914	14,908	0.0%	0	0	14,914	14,908	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	554,203	495,486	12.0%	532,599	487,605	19,702	6,783	0	0	1,902	1,098
Georgia	158,602	146,702	8.1%	120,288	114,091	33,719	27,951	0	0	4,596	4,661
Maryland	35,571	16,784	112.0%	7,239	0	26,981	15,552	0	0	1,351	1,232
North Carolina	141,349	122,717	15.0%	125,529	107,873	14,369	14,346	0	0	1,450	497
South Carolina	62,895	52,615	20.0%	51,979	45,402	10,436	6,699	0	0	479	514
Virginia	157,988	136,654	16.0%	94,286	87,375	58,870	44,466	0	0	4,832	4,813
West Virginia	6,042	5,808	4.0%	997	739	2,248	1,084	0	0	2,798	3,985
East South Central	463,622	356,424	30.0%	313,968	238,697	140,115	108,979	0	0	9,539	8,748
Alabama	183,238	149,257	23.0%	64,183	54,957	119,055	94,300	0	0	0	0
Kentucky	52,805	22,254	137.0%	49,223	20,903	3,582	1,351	0	0	0	0
Mississippi	179,743	143,394	25.0%	162,265	130,067	17,478	13,327	0	0	0	0
Tennessee	47,836	41,519	15.0%	38,298	32,771	0	0	0	0	9,539	8,748
West South Central	1,284,283	963,522	33.0%	335,830	206,178	641,816	494,673	0	0	306,637	262,671
Arkansas	66,235	34,973	89.0%	25,211	38	39,828	33,944	0	0	1,196	991
Louisiana	226,617	205,311	10.0%	109,289	90,318	18,063	17,431	0	0	99,265	97,562
Oklahoma	131,660	85,769	54.0%	75,668	51,265	54,303	33,674	0	0	1,690	830
Texas	859,771	637,468	35.0%	125,663	64,557	529,622	409,623	0	0	204,486	163,288
Mountain	290,670	251,853	15.0%	245,752	208,818	44,573	42,640	0	0	345	395
Arizona	95,745	82,578	16.0%	72,641	58,625	23,104	23,953	0	0	0	0
Colorado	54,866	39,493	39.0%	47,478	33,562	7,388	5,931	0	0	0	0
Idaho	1,111	0	--	1,111	0	0	0	0	0	0	0
Montana	1,309	1,392	-6.0%	1,309	1,392	0	0	0	0	0	0
Nevada	78,666	79,295	-0.8%	78,666	79,295	0	0	0	0	0	0
New Mexico	38,346	32,199	19.0%	24,536	20,122	13,810	12,077	0	0	0	0
Utah	20,086	16,600	21.0%	19,478	15,534	263	671	0	0	345	395
Wyoming	542	296	83.0%	534	287	8	9	0	0	0	0
Pacific Contiguous	260,162	247,459	5.1%	101,952	98,583	144,321	133,053	0	0	13,889	15,823
California	211,761	221,485	-4.4%	80,131	86,970	117,741	118,692	0	0	13,889	15,823
Oregon	33,415	17,516	91.0%	14,091	3,155	19,324	14,361	0	0	0	0
Washington	14,986	8,458	77.0%	7,730	8,458	7,256	0	0	0	0	0
Pacific Noncontiguous	805	801	0.5%	805	801	0	0	0	0	0	0
Alaska	805	801	0.5%	805	801	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,520,191	3,619,212	25.0%	2,187,610	1,752,432	1,965,300	1,548,506	4,374	3,492	362,907	314,782

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.04	1.88	8.5%	--	--	2.04	1.88
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	W	1.80	W	--	--	W	1.80
East North Central	1.96	2.04	-3.9%	2.09	2.11	1.78	1.90
Illinois	W	W	W	1.88	1.82	W	W
Indiana	W	W	W	2.08	2.18	W	W
Michigan	W	W	W	2.08	2.11	W	W
Ohio	1.77	1.93	-8.3%	1.74	1.73	1.77	2.00
Wisconsin	2.29	2.28	0.4%	2.29	2.28	--	--
West North Central	1.69	1.78	-5.1%	1.69	1.78	--	--
Iowa	1.61	1.68	-4.2%	1.61	1.68	--	--
Kansas	1.72	1.75	-1.7%	1.72	1.75	--	--
Minnesota	2.19	2.09	4.8%	2.19	2.09	--	--
Missouri	1.75	1.89	-7.4%	1.75	1.89	--	--
Nebraska	1.23	1.35	-8.9%	1.23	1.35	--	--
North Dakota	1.60	1.72	-7.0%	1.60	1.72	--	--
South Dakota	1.88	2.21	-15.0%	1.88	2.21	--	--
South Atlantic	2.62	2.66	-1.5%	2.67	2.67	2.28	2.64
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.88	2.86	0.7%	2.88	2.86	--	--
Georgia	2.83	2.81	0.7%	2.83	2.81	--	--
Maryland	2.40	2.58	-7.0%	--	--	2.40	2.58
North Carolina	W	W	W	3.06	2.94	W	W
South Carolina	3.31	3.20	3.4%	3.31	3.20	--	--
Virginia	W	W	W	2.68	2.55	W	W
West Virginia	W	W	W	2.12	2.19	W	W
East South Central	W	W	W	2.08	2.13	W	W
Alabama	2.25	2.21	1.8%	2.25	2.21	--	--
Kentucky	1.96	2.00	-2.0%	1.96	2.00	--	--
Mississippi	W	W	W	2.49	2.98	W	W
Tennessee	2.22	2.25	-1.3%	2.22	2.25	--	--
West South Central	1.89	2.03	-6.9%	2.11	2.09	1.60	1.96
Arkansas	W	W	W	1.93	2.03	W	W
Louisiana	W	W	W	3.28	2.23	W	W
Oklahoma	W	W	W	1.74	1.83	W	W
Texas	1.76	2.03	-13.0%	2.04	2.16	1.54	1.96
Mountain	W	W	W	2.03	1.87	W	W
Arizona	2.47	2.28	8.3%	2.47	2.28	--	--
Colorado	1.67	1.82	-8.2%	1.67	1.82	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.93	1.96	W	W
Nevada	W	W	W	3.03	--	W	W
New Mexico	2.44	1.89	29.0%	2.44	1.89	--	--
Utah	2.07	1.95	6.2%	2.07	1.95	--	--
Wyoming	W	W	W	1.63	1.58	W	W
Pacific Contiguous	W	W	W	2.19	--	W	W
California	--	--	--	--	--	--	--
Oregon	2.19	--	--	2.19	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.38	--	W	W
Alaska	3.38	--	--	3.38	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.04	2.10	-2.9%	2.10	2.13	1.85	2.00

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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) June 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	W	W	W	3.61	4.34	W	W
Connecticut	W	--	W	--	--	W	--
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	2.32	2.00	16.0%	--	--	2.32	2.00
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.25	1.94	16.0%	--	--	2.25	1.94
East North Central	1.97	2.03	-3.0%	2.09	2.12	1.80	1.89
Illinois	1.76	W	W	1.85	1.84	1.73	W
Indiana	W	W	W	2.10	2.18	W	W
Michigan	W	W	W	2.13	2.17	W	W
Ohio	W	1.93	W	1.78	1.74	W	1.99
Wisconsin	2.25	2.27	-0.9%	2.25	2.27	--	--
West North Central	1.72	1.77	-2.8%	1.72	1.77	--	--
Iowa	1.70	1.70	0.0%	1.70	1.70	--	--
Kansas	1.70	1.73	-1.7%	1.70	1.73	--	--
Minnesota	2.14	2.10	1.9%	2.14	2.10	--	--
Missouri	1.83	1.87	-2.1%	1.83	1.87	--	--
Nebraska	1.25	1.37	-8.8%	1.25	1.37	--	--
North Dakota	1.52	1.65	-7.9%	1.52	1.65	--	--
South Dakota	1.91	2.28	-16.0%	1.91	2.28	--	--
South Atlantic	2.63	2.70	-2.6%	2.70	2.72	2.27	2.51
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.89	W	W	2.89	2.96	--	W
Georgia	2.80	2.76	1.4%	2.80	2.76	--	--
Maryland	2.52	2.81	-10.0%	--	--	2.52	2.81
North Carolina	W	W	W	3.07	2.96	W	W
South Carolina	3.35	3.27	2.4%	3.35	3.27	--	--
Virginia	W	W	W	2.66	2.72	W	W
West Virginia	W	W	W	2.15	2.21	W	W
East South Central	W	W	W	2.09	2.07	W	W
Alabama	2.30	2.16	6.5%	2.30	2.16	--	--
Kentucky	1.96	1.97	-0.5%	1.96	1.97	--	--
Mississippi	W	W	W	2.65	2.80	W	W
Tennessee	2.15	2.24	-4.0%	2.15	2.24	--	--
West South Central	1.85	1.97	-6.1%	2.00	2.12	1.66	1.84
Arkansas	W	W	W	1.93	2.11	W	W
Louisiana	W	W	W	2.43	2.38	W	W
Oklahoma	W	W	W	1.75	1.91	W	W
Texas	1.78	1.92	-7.3%	2.02	2.12	1.59	1.82
Mountain	W	W	W	2.01	1.91	W	W
Arizona	2.45	2.26	8.4%	2.45	2.26	--	--
Colorado	1.64	1.84	-11.0%	1.64	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.89	1.74	W	W
Nevada	W	W	W	3.03	--	W	W
New Mexico	2.35	1.93	22.0%	2.35	1.93	--	--
Utah	2.05	1.96	4.6%	2.05	1.96	--	--
Wyoming	W	W	W	1.76	1.65	W	W
Pacific Contiguous	W	W	W	2.19	2.40	W	W
California	--	--	--	--	--	--	--
Oregon	2.19	2.40	-8.8%	2.19	2.40	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.35	3.06	W	W
Alaska	3.35	3.06	9.5%	3.35	3.06	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.09	-1.9%	2.10	2.14	1.90	1.95

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017
New England	W	W	W	9.37	13.37	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	9.37	13.37	-30.0%	9.37	13.37	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	10.90	W	16.29	11.47	W	10.88
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	16.29	11.47	W	W
Pennsylvania	W	10.94	W	--	--	W	10.94
East North Central	16.92	11.44	48.0%	17.16	11.45	16.58	11.41
Illinois	16.30	11.80	38.0%	17.01	11.46	16.23	11.83
Indiana	16.85	11.21	50.0%	16.85	11.21	--	--
Michigan	16.37	11.07	48.0%	16.37	11.07	--	--
Ohio	16.72	11.75	42.0%	17.17	12.19	16.68	11.07
Wisconsin	19.72	11.53	71.0%	19.72	11.53	--	--
West North Central	16.56	11.22	48.0%	16.56	11.22	--	--
Iowa	16.40	10.90	50.0%	16.40	10.90	--	--
Kansas	16.31	11.13	47.0%	16.31	11.13	--	--
Minnesota	16.83	11.02	53.0%	16.83	11.02	--	--
Missouri	16.57	10.83	53.0%	16.57	10.83	--	--
Nebraska	16.78	10.11	66.0%	16.78	10.11	--	--
North Dakota	16.46	11.79	40.0%	16.46	11.79	--	--
South Dakota	17.13	--	--	17.13	--	--	--
South Atlantic	W	11.11	W	11.80	11.14	W	10.89
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.77	11.35	48.0%	16.77	11.35	--	--
Georgia	15.91	10.49	52.0%	15.91	10.49	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	16.19	10.84	49.0%	16.19	10.84	--	--
South Carolina	16.68	11.52	45.0%	16.68	11.52	--	--
Virginia	W	W	W	8.01	11.00	W	W
West Virginia	17.51	12.01	46.0%	17.51	12.01	--	--
East South Central	16.57	11.21	48.0%	16.57	11.21	--	--
Alabama	17.81	12.07	48.0%	17.81	12.07	--	--
Kentucky	16.34	11.36	44.0%	16.34	11.36	--	--
Mississippi	15.61	10.72	46.0%	15.61	10.72	--	--
Tennessee	15.90	11.03	44.0%	15.90	11.03	--	--
West South Central	W	W	W	16.28	10.89	W	W
Arkansas	W	W	W	16.07	10.76	W	W
Louisiana	15.99	--	--	15.99	--	--	--
Oklahoma	17.31	--	--	17.31	--	--	--
Texas	W	W	W	16.39	10.97	W	W
Mountain	W	W	W	19.71	13.61	W	W
Arizona	17.08	12.36	38.0%	17.08	12.36	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	18.93	11.58	W	W
New Mexico	17.44	12.74	37.0%	17.44	12.74	--	--
Utah	18.47	15.29	21.0%	18.47	15.29	--	--
Wyoming	22.52	16.10	40.0%	22.52	16.10	--	--
Pacific Contiguous	W	--	W	--	--	W	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	--	W	--	--	W	--
Pacific Noncontiguous	W	W	W	14.65	10.67	W	W
Alaska	19.39	--	--	19.39	--	--	--
Hawaii	W	W	W	14.65	10.67	W	W
U.S. Total	15.03	W	W	14.68	10.86	16.11	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	W	W	W	11.39	13.98	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	13.98	W	11.00	13.98	W	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.51	12.67	6.6%	12.28	9.22	14.28	15.21
New Jersey	W	W	W	--	--	W	W
New York	13.05	12.99	0.5%	12.28	9.22	13.72	21.02
Pennsylvania	W	W	W	--	--	W	W
East North Central	16.00	12.16	32.0%	16.21	12.11	15.70	12.25
Illinois	W	12.50	W	15.85	11.83	W	12.53
Indiana	W	12.00	W	16.08	12.00	W	--
Michigan	15.66	11.63	35.0%	15.66	11.63	--	--
Ohio	15.75	12.43	27.0%	16.27	13.03	15.61	12.10
Wisconsin	17.94	11.85	51.0%	17.94	11.85	--	--
West North Central	16.05	12.10	33.0%	16.05	12.10	--	--
Iowa	16.02	12.34	30.0%	16.02	12.34	--	--
Kansas	16.19	11.97	35.0%	16.19	11.97	--	--
Minnesota	16.60	11.96	39.0%	16.60	11.96	--	--
Missouri	15.94	12.10	32.0%	15.94	12.10	--	--
Nebraska	16.00	10.11	58.0%	16.00	10.11	--	--
North Dakota	15.87	12.02	32.0%	15.87	12.02	--	--
South Dakota	17.15	11.98	43.0%	17.15	11.98	--	--
South Atlantic	14.35	12.27	17.0%	14.48	12.25	13.91	12.52
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.02	12.35	30.0%	16.02	12.35	--	--
Georgia	W	W	W	15.41	11.44	W	W
Maryland	14.25	11.13	28.0%	--	--	14.25	11.13
North Carolina	17.07	W	W	17.07	12.06	--	W
South Carolina	16.83	12.62	33.0%	16.83	12.62	--	--
Virginia	W	W	W	9.64	11.30	W	W
West Virginia	W	12.63	W	16.74	12.63	W	--
East South Central	W	W	W	15.78	11.89	W	W
Alabama	W	W	W	16.11	12.63	W	W
Kentucky	15.76	11.91	32.0%	15.76	11.91	--	--
Mississippi	15.20	11.66	30.0%	15.20	11.66	--	--
Tennessee	15.61	11.68	34.0%	15.61	11.68	--	--
West South Central	15.94	12.27	30.0%	15.92	11.95	16.03	12.49
Arkansas	W	W	W	15.99	11.77	W	W
Louisiana	14.74	--	--	14.74	--	--	--
Oklahoma	15.94	12.91	23.0%	15.94	12.91	--	--
Texas	W	W	W	16.07	11.94	W	W
Mountain	17.78	13.42	32.0%	17.83	13.42	17.25	13.37
Arizona	15.96	13.21	21.0%	15.96	13.21	--	--
Colorado	17.17	12.52	37.0%	17.17	12.52	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.76	11.59	W	W
New Mexico	17.69	12.65	40.0%	17.69	12.65	--	--
Utah	W	W	W	19.04	13.92	W	W
Wyoming	19.30	13.87	39.0%	19.30	13.87	--	--
Pacific Contiguous	W	W	W	--	13.51	W	W
California	--	--	--	--	--	--	--
Oregon	--	13.51	--	--	13.51	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	13.11	10.81	W	W
Alaska	19.39	16.28	19.0%	19.39	16.28	--	--
Hawaii	W	W	W	13.11	10.81	W	W
U.S. Total	13.74	11.53	19.0%	13.68	11.33	13.85	12.28

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.51	1.49	1.3%	1.51	1.49	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.47	1.44	2.1%	1.47	1.44	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.81	-2.2%	1.77	1.81	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.41	2.51	36.0%	3.41	2.51	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.41	2.51	36.0%	3.41	2.51	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.56	--	--	1.56	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.56	--	--	1.56	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.71	2.15	26.0%	2.71	2.15	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.71	2.15	26.0%	2.71	2.15	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.73	2.14	28.0%	2.73	2.14	--	--

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) June 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.55	1.49	4.0%	1.55	1.49	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.53	1.47	4.1%	1.53	1.47	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.80	-1.7%	1.77	1.80	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.00	2.58	16.0%	3.00	2.58	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.00	2.58	16.0%	3.00	2.58	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.50	--	--	1.50	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.50	--	--	1.50	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.60	2.12	23.0%	2.60	2.12	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.60	2.12	23.0%	2.60	2.12	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.52	2.07	22.0%	2.52	2.07	--	--

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018	June 2017	Percentage Change	June 2018	June 2017	June 2018	June 2017
New England	W	W	W	4.15	3.46	W	W
Connecticut	2.72	W	W	--	--	2.72	W
Maine	--	W	W	--	--	--	W
Massachusetts	2.76	2.56	7.8%	3.51	3.20	2.75	2.55
New Hampshire	W	W	W	5.30	4.07	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.61	2.54	2.8%	2.84	3.02	2.59	2.47
New Jersey	2.62	2.34	12.0%	--	--	2.62	2.34
New York	2.87	2.87	0.0%	2.84	3.02	2.88	2.80
Pennsylvania	2.44	2.31	5.6%	--	--	2.44	2.31
East North Central	2.91	3.04	-4.3%	3.03	3.05	2.85	3.02
Illinois	2.87	3.04	-5.6%	2.92	3.61	2.86	3.03
Indiana	2.95	W	W	3.06	3.04	2.84	W
Michigan	3.03	3.12	-2.9%	3.24	3.35	2.93	3.05
Ohio	2.79	2.89	-3.5%	2.78	2.67	2.80	2.99
Wisconsin	2.98	W	W	2.98	3.24	--	W
West North Central	W	W	W	2.76	3.07	W	W
Iowa	2.55	2.59	-1.5%	2.55	2.59	--	--
Kansas	2.80	3.34	-16.0%	2.80	3.34	--	--
Minnesota	W	W	W	3.24	3.63	W	W
Missouri	W	3.19	W	2.59	3.19	W	--
Nebraska	3.20	3.31	-3.3%	3.20	3.31	--	--
North Dakota	5.38	4.34	24.0%	5.38	4.34	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.71	3.82	-2.9%	3.79	3.93	3.18	2.96
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.25	W	4.04	4.25	W	--
Georgia	W	W	W	3.50	3.51	W	W
Maryland	3.35	3.10	8.1%	3.26	--	3.39	3.10
North Carolina	W	W	W	3.59	3.88	W	W
South Carolina	W	W	W	3.47	3.48	W	W
Virginia	3.13	2.94	6.5%	3.27	3.11	2.82	2.53
West Virginia	W	W	W	2.69	2.82	W	W
East South Central	3.11	3.20	-2.8%	3.08	3.18	3.19	3.26
Alabama	W	W	W	3.20	3.30	W	W
Kentucky	W	W	W	3.24	3.63	W	W
Mississippi	W	W	W	3.03	3.08	W	W
Tennessee	2.91	3.05	-4.6%	2.91	3.05	--	--
West South Central	2.91	3.10	-6.1%	2.86	3.17	2.95	3.06
Arkansas	W	W	W	3.09	3.02	W	W
Louisiana	W	W	W	3.13	3.27	W	W
Oklahoma	W	W	W	2.48	3.12	W	W
Texas	2.94	3.09	-4.9%	2.83	3.09	2.97	3.09
Mountain	2.68	3.38	-21.0%	2.66	3.39	3.01	3.26
Arizona	W	W	W	2.76	3.53	W	W
Colorado	W	W	W	2.97	3.35	W	W
Idaho	2.27	--	--	2.27	--	--	--
Montana	0.95	2.01	-53.0%	0.95	2.01	--	--
Nevada	2.50	3.33	-25.0%	2.50	3.33	--	--
New Mexico	2.52	3.36	-25.0%	2.52	3.36	--	--
Utah	2.52	W	W	2.52	3.21	--	W
Wyoming	W	W	W	2.22	3.42	W	W
Pacific Contiguous	3.06	3.57	-14.0%	3.23	3.98	2.87	3.24
California	3.27	W	W	3.56	4.00	3.00	W
Oregon	W	W	W	1.77	2.22	W	W
Washington	W	4.72	W	2.66	4.72	W	--
Pacific Noncontiguous	7.76	8.09	-4.1%	7.76	8.09	--	--
Alaska	7.76	8.09	-4.1%	7.76	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.11	3.30	-5.8%	3.27	3.57	2.87	2.92

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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) June 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2018 YTD	June 2017 YTD	Percentage Change	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	5.43	4.16	31.0%	4.21	3.66	5.43	4.16
Connecticut	5.17	W	W	--	--	5.17	W
Maine	W	W	W	--	--	W	W
Massachusetts	5.94	3.73	59.0%	3.41	3.41	5.95	3.73
New Hampshire	W	W	W	5.88	3.87	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.50	3.35	4.5%	4.57	4.01	3.39	3.26
New Jersey	3.38	3.18	6.3%	--	--	3.38	3.18
New York	4.12	3.83	7.6%	4.57	4.01	3.93	3.75
Pennsylvania	3.15	3.00	5.0%	--	--	3.15	3.00
East North Central	3.02	3.17	-4.7%	3.19	3.19	2.92	3.15
Illinois	3.22	3.10	3.9%	3.36	4.22	3.21	3.09
Indiana	3.11	W	W	3.32	3.08	2.89	W
Michigan	3.05	3.23	-5.6%	3.31	3.40	2.94	3.19
Ohio	2.84	3.08	-7.8%	2.87	2.98	2.83	3.12
Wisconsin	3.19	W	W	3.19	3.49	--	W
West North Central	W	W	W	2.94	3.46	W	W
Iowa	2.67	2.76	-3.3%	2.67	2.76	--	--
Kansas	2.94	3.82	-23.0%	2.94	3.82	--	--
Minnesota	W	W	W	3.40	3.50	W	W
Missouri	W	3.10	W	2.72	3.10	W	--
Nebraska	3.74	4.27	-12.0%	3.74	4.27	--	--
North Dakota	5.85	4.76	23.0%	5.85	4.76	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	4.39	3.95	11.0%	4.47	4.01	3.81	3.31
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.38	4.14	W	W
Georgia	W	W	W	3.72	3.72	W	W
Maryland	4.21	W	W	3.23	--	4.47	W
North Carolina	W	W	W	5.06	4.10	W	W
South Carolina	W	W	W	3.92	3.54	W	W
Virginia	4.81	3.63	33.0%	5.57	3.84	3.01	2.84
West Virginia	W	2.96	W	3.27	3.06	W	2.88
East South Central	3.19	3.34	-4.5%	3.19	3.34	3.18	3.34
Alabama	W	W	W	3.20	3.48	W	W
Kentucky	W	W	W	3.53	3.87	W	W
Mississippi	W	W	W	3.12	3.24	W	W
Tennessee	3.01	3.13	-3.8%	3.01	3.13	--	--
West South Central	2.99	3.17	-5.7%	2.99	3.32	3.00	3.10
Arkansas	W	W	W	3.18	3.24	W	W
Louisiana	W	W	W	3.21	3.34	W	W
Oklahoma	W	W	W	2.61	3.36	W	W
Texas	3.01	3.13	-3.8%	2.99	3.25	3.02	3.10
Mountain	2.99	W	W	2.96	3.65	3.54	W
Arizona	W	3.82	W	2.88	3.88	W	2.99
Colorado	W	W	W	3.72	3.58	W	W
Idaho	2.61	--	--	2.61	--	--	--
Montana	1.43	2.18	-34.0%	1.43	2.18	--	--
Nevada	2.77	3.60	-23.0%	2.77	3.60	--	--
New Mexico	2.54	3.49	-27.0%	2.54	3.49	--	--
Utah	W	W	W	2.74	3.60	W	W
Wyoming	W	W	W	2.95	4.25	W	W
Pacific Contiguous	W	3.70	W	3.41	4.07	W	3.33
California	3.27	W	W	3.69	4.10	2.87	W
Oregon	W	W	W	2.16	3.18	W	W
Washington	W	4.16	W	3.19	4.16	W	--
Pacific Noncontiguous	8.08	8.09	-0.1%	8.08	8.09	--	--
Alaska	8.08	8.09	-0.1%	8.08	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.54	3.55	-0.3%	3.71	3.74	3.32	3.29

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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, June 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	3	0.73	7.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,337	2.77	8.8	0	--	--	0	--	--
New Jersey	47	1.54	7.8	0	--	--	0	--	--
New York	28	2.93	8.0	0	--	--	0	--	--
Pennsylvania	1,262	2.82	8.9	0	--	--	0	--	--
East North Central	5,139	3.33	10.3	5,682	0.25	4.6	0	--	--
Illinois	753	3.60	19.6	2,192	0.22	4.5	0	--	--
Indiana	2,145	2.92	8.9	236	0.19	4.2	0	--	--
Michigan	112	2.03	7.2	1,837	0.26	4.5	0	--	--
Ohio	2,039	3.78	9.4	0	--	--	0	--	--
Wisconsin	91	2.15	8.6	1,418	0.28	5.1	0	--	--
West North Central	94	3.11	9.7	7,374	0.27	4.9	1,915	0.71	10.2
Iowa	39	3.14	8.2	1,257	0.26	4.7	0	--	--
Kansas	17	3.42	13.6	1,070	0.29	4.8	0	--	--
Minnesota	0	--	--	849	0.34	6.2	0	--	--
Missouri	38	2.92	9.4	2,957	0.22	4.6	0	--	--
Nebraska	0	--	--	1,098	0.30	5.2	0	--	--
North Dakota	0	--	--	0	--	--	1,915	0.71	10.2
South Dakota	0	--	--	142	0.39	5.3	0	--	--
South Atlantic	5,498	2.41	9.8	666	0.30	4.5	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,001	2.52	8.2	0	--	--	0	--	--
Georgia	521	2.61	8.6	666	0.30	4.5	0	--	--
Maryland	426	2.30	9.9	0	--	--	0	--	--
North Carolina	798	1.81	9.3	0	--	--	0	--	--
South Carolina	456	1.75	9.1	0	--	--	0	--	--
Virginia	308	1.04	16.8	0	--	--	0	--	--
West Virginia	1,987	2.91	10.2	0	--	--	0	--	--
East South Central	3,273	2.69	9.2	1,622	0.29	5.0	303	0.50	13.6
Alabama	522	1.53	10.3	803	0.32	5.2	0	--	--
Kentucky	2,196	3.07	9.2	589	0.24	4.7	0	--	--
Mississippi	18	2.99	8.2	112	0.32	5.0	303	0.50	13.6
Tennessee	537	2.21	8.4	118	0.32	5.5	0	--	--
West South Central	94	2.68	16.9	6,157	0.27	5.0	2,358	1.15	16.0
Arkansas	8	0.39	10.1	1,270	0.23	4.9	0	--	--
Louisiana	48	3.19	9.3	425	0.28	4.9	184	0.62	15.9
Oklahoma	38	2.52	29.7	614	0.22	4.5	0	--	--
Texas	0	--	--	3,849	0.29	5.2	2,174	1.19	16.1
Mountain	1,785	0.55	12.7	4,570	0.52	8.7	21	0.55	9.0
Arizona	543	0.57	10.3	767	0.72	10.8	0	--	--
Colorado	81	0.48	11.2	1,230	0.33	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	519	0.72	9.4	21	0.55	9.0
Nevada	25	0.47	10.1	83	0.37	7.2	0	--	--
New Mexico	237	0.73	21.3	414	0.85	19.8	0	--	--
Utah	899	0.51	12.3	44	0.89	9.2	0	--	--
Wyoming	0	--	--	1,512	0.43	6.4	0	--	--
Pacific Contiguous	54	0.38	9.9	117	0.36	8.3	0	--	--
California	54	0.38	9.9	0	--	--	0	--	--
Oregon	0	--	--	14	0.26	4.9	0	--	--
Washington	0	--	--	103	0.37	8.8	0	--	--
Pacific Noncontiguous	0	--	--	62	0.24	4.5	9	0.16	10.4
Alaska	0	--	--	0	--	--	9	0.16	10.4
Hawaii	0	--	--	62	0.24	4.5	0	--	--
U.S. Total	17,278	2.58	10.1	26,250	0.31	5.6	4,607	0.92	13.5

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, June 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	2,497	3.00	8.9	3,836	0.26	4.7	0	--	--
Illinois	146	3.23	10.4	346	0.23	4.6	0	--	--
Indiana	1,978	2.88	8.8	236	0.19	4.2	0	--	--
Michigan	93	2.28	7.4	1,837	0.26	4.5	0	--	--
Ohio	215	4.30	9.3	0	--	--	0	--	--
Wisconsin	64	2.74	7.8	1,418	0.28	5.1	0	--	--
West North Central	55	3.08	10.7	7,143	0.27	4.9	1,915	0.71	10.2
Iowa	0	--	--	1,090	0.26	4.8	0	--	--
Kansas	17	3.42	13.6	1,070	0.29	4.8	0	--	--
Minnesota	0	--	--	849	0.34	6.2	0	--	--
Missouri	38	2.92	9.4	2,957	0.22	4.6	0	--	--
Nebraska	0	--	--	1,034	0.31	5.2	0	--	--
North Dakota	0	--	--	0	--	--	1,915	0.71	10.2
South Dakota	0	--	--	142	0.39	5.3	0	--	--
South Atlantic	4,705	2.40	9.8	666	0.30	4.5	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	996	2.54	8.2	0	--	--	0	--	--
Georgia	521	2.61	8.6	666	0.30	4.5	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	779	1.84	9.4	0	--	--	0	--	--
South Carolina	456	1.75	9.1	0	--	--	0	--	--
Virginia	239	1.13	19.4	0	--	--	0	--	--
West Virginia	1,715	2.85	10.2	0	--	--	0	--	--
East South Central	3,205	2.73	9.3	1,622	0.29	5.0	0	--	--
Alabama	522	1.53	10.3	803	0.32	5.2	0	--	--
Kentucky	2,196	3.07	9.2	589	0.24	4.7	0	--	--
Mississippi	18	2.99	8.2	112	0.32	5.0	0	--	--
Tennessee	469	2.41	8.5	118	0.32	5.5	0	--	--
West South Central	48	3.19	9.3	3,808	0.25	4.8	799	1.58	18.1
Arkansas	0	--	--	1,038	0.23	4.7	0	--	--
Louisiana	48	3.19	9.3	263	0.26	5.0	184	0.62	15.9
Oklahoma	0	--	--	569	0.22	4.5	0	--	--
Texas	0	--	--	1,939	0.27	5.0	614	1.91	18.9
Mountain	1,785	0.55	12.7	3,985	0.50	8.6	21	0.55	9.0
Arizona	543	0.57	10.3	767	0.72	10.8	0	--	--
Colorado	81	0.48	11.2	1,230	0.33	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	21	0.55	9.0
Nevada	25	0.47	10.1	61	0.41	8.1	0	--	--
New Mexico	237	0.73	21.3	414	0.85	19.8	0	--	--
Utah	899	0.51	12.3	44	0.89	9.2	0	--	--
Wyoming	0	--	--	1,468	0.43	6.4	0	--	--
Pacific Contiguous	0	--	--	14	0.26	4.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	14	0.26	4.9	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.16	10.4
Alaska	0	--	--	0	--	--	9	0.16	10.4
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,295	2.37	9.8	21,074	0.31	5.6	2,744	0.95	12.5

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, June 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	3	0.73	7.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,326	2.77	8.9	0	--	--	0	--	--
New Jersey	47	1.54	7.8	0	--	--	0	--	--
New York	28	2.93	8.0	0	--	--	0	--	--
Pennsylvania	1,251	2.82	8.9	0	--	--	0	--	--
East North Central	2,511	3.67	11.9	1,799	0.20	4.5	0	--	--
Illinois	501	3.71	25.9	1,799	0.20	4.5	0	--	--
Indiana	167	3.40	10.1	0	--	--	0	--	--
Michigan	18	0.43	5.7	0	--	--	0	--	--
Ohio	1,824	3.71	9.5	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	735	2.58	9.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	415	2.32	9.7	0	--	--	0	--	--
North Carolina	2	0.70	6.1	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	45	0.78	10.3	0	--	--	0	--	--
West Virginia	272	3.29	10.2	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	303	0.50	13.6
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	303	0.50	13.6
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	38	2.52	29.7	2,318	0.30	5.3	1,560	0.94	15.1
Arkansas	0	--	--	232	0.24	5.7	0	--	--
Louisiana	0	--	--	162	0.32	4.9	0	--	--
Oklahoma	38	2.52	29.7	14	0.20	4.3	0	--	--
Texas	0	--	--	1,910	0.31	5.3	1,560	0.94	15.1
Mountain	0	--	--	586	0.68	8.9	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	519	0.72	9.4	0	--	--
Nevada	0	--	--	23	0.27	4.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	44	0.47	6.1	0	--	--
Pacific Contiguous	0	--	--	103	0.37	8.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	103	0.37	8.8	0	--	--
Pacific Noncontiguous	0	--	--	62	0.24	4.5	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	62	0.24	4.5	0	--	--
U.S. Total	4,612	3.21	10.8	4,868	0.31	5.5	1,863	0.88	14.9

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

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, June 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	2.60	7.8	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.60	7.8	0	--	--	0	--	--
East North Central	132	3.02	8.8	47	0.87	6.5	0	--	--
Illinois	105	3.68	8.3	47	0.87	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	27	0.50	10.9	0	--	--	0	--	--
West North Central	39	3.14	8.2	231	0.21	4.5	0	--	--
Iowa	39	3.14	8.2	167	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	64	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	58	0.88	9.2	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	5	0.69	8.0	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	11	1.61	19.3	0	--	--	0	--	--
North Carolina	17	0.73	7.0	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	24	0.74	7.0	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	69	0.92	7.9	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	69	0.92	7.9	0	--	--	0	--	--
West South Central	8	0.39	10.1	31	0.21	4.5	0	--	--
Arkansas	8	0.39	10.1	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	31	0.21	4.5	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	54	0.38	9.9	0	--	--	0	--	--
California	54	0.38	9.9	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	371	1.79	8.8	308	0.31	4.8	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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 - June 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
April	95,132	102,941	75,342	608	274,023
May	103,356	111,951	81,402	591	297,299
June	129,487	121,659	81,561	628	333,335
Year to Date					
2016	654,811	650,447	478,644	3,723	1,787,625
2017	646,013	647,189	463,648	3,748	1,760,598
2018	696,354	659,838	463,033	3,838	1,823,064
Rolling 12 Months Ending in June					
2017	1,402,260	1,363,934	961,719	7,521	3,735,434
2018	1,429,160	1,361,857	945,829	7,615	3,744,461

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 - June 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
April	12,263	10,745	4,955	58	28,021
May	13,595	11,769	5,549	56	30,969
June	16,863	13,159	5,853	64	35,939
Year to Date					
2016	81,329	66,963	31,429	355	180,077
2017	82,611	68,190	31,393	359	182,553
2018	89,021	69,655	31,607	369	190,652
Rolling 12 Months Ending in June					
2017	178,358	143,870	66,032	725	388,986
2018	184,270	145,572	65,608	737	396,187

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 - June 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
April	12.89	10.44	6.58	9.53	10.23
May	13.15	10.51	6.82	9.46	10.42
June	13.02	10.82	7.18	10.15	10.78
Year to Date					
2016	12.42	10.29	6.57	9.55	10.07
2017	12.79	10.54	6.77	9.58	10.37
2018	12.78	10.56	6.83	9.61	10.46
Rolling 12 Months Ending in June					
2017	12.72	10.55	6.87	9.64	10.41
2018	12.89	10.69	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, June 2018 and 2017 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	3,543	3,899	4,383	4,878	1,312	1,449	43	45	9,282	10,272
Connecticut	973	986	1,048	1,061	212	278	15	16	2,248	2,341
Maine	341	359	334	341	241	227	0	0	916	928
Massachusetts	1,515	1,810	2,160	2,617	509	599	27	27	4,211	5,054
New Hampshire	333	342	368	367	174	166	0	0	876	875
Rhode Island	233	249	309	326	65	68	2	2	608	645
Vermont	147	153	164	166	111	110	0	0	421	430
Middle Atlantic	10,756	10,685	13,237	13,139	5,834	5,986	316	319	30,143	30,129
New Jersey	2,660	2,700	3,301	3,307	581	601	25	25	6,567	6,634
New York	4,026	4,036	6,373	6,283	1,341	1,421	233	227	11,973	11,967
Pennsylvania	4,070	3,949	3,562	3,549	3,913	3,963	58	67	11,603	11,528
East North Central	16,738	15,805	16,212	16,048	16,199	15,719	50	46	49,198	47,617
Illinois	4,437	4,200	4,452	4,296	3,862	3,576	45	41	12,796	12,113
Indiana	2,925	2,700	2,149	2,075	3,457	3,477	2	2	8,532	8,253
Michigan	2,978	2,908	3,421	3,499	2,543	2,492	1	1	8,943	8,899
Ohio	4,573	4,212	4,147	4,101	4,034	4,067	3	3	12,756	12,383
Wisconsin	1,825	1,785	2,042	2,077	2,304	2,107	0	0	6,170	5,969
West North Central	9,832	8,715	9,190	8,854	7,461	7,516	3	3	26,487	25,088
Iowa	1,307	1,219	1,070	1,073	2,033	1,936	0	0	4,410	4,227
Kansas	1,563	1,302	1,444	1,367	860	919	0	0	3,867	3,588
Minnesota	1,910	1,756	2,062	1,996	1,750	1,756	2	2	5,723	5,509
Missouri	3,453	2,979	2,843	2,699	974	1,006	2	2	7,272	6,685
Nebraska	921	830	856	836	903	1,004	0	0	2,680	2,670
North Dakota	314	288	498	478	694	653	0	0	1,506	1,419
South Dakota	365	342	417	406	246	242	0	0	1,028	991
South Atlantic	33,345	31,386	28,502	27,735	11,962	11,733	112	108	73,920	70,962
Delaware	372	368	369	358	199	195	0	0	940	921
District of Columbia	222	222	694	726	17	16	28	29	960	993
Florida	11,465	11,221	8,689	8,419	1,467	1,404	7	8	21,628	21,052
Georgia	5,707	5,063	4,373	4,158	2,738	2,697	14	14	12,832	11,932
Maryland	2,194	2,285	2,527	2,612	313	316	43	45	5,078	5,258
North Carolina	5,542	5,021	4,537	4,443	2,292	2,250	2	0	12,372	11,714
South Carolina	3,053	2,728	2,064	1,980	2,325	2,228	0	0	7,441	6,936
Virginia	3,970	3,711	4,590	4,405	1,433	1,501	18	13	10,012	9,630
West Virginia	819	767	659	633	1,178	1,127	0	0	2,656	2,526
East South Central	11,144	9,750	8,587	7,833	8,104	8,434	0	0	27,836	26,016
Alabama	3,124	2,728	2,125	2,011	2,892	2,813	0	0	8,141	7,552
Kentucky	2,354	2,116	1,772	1,644	2,167	2,338	0	0	6,293	6,097
Mississippi	1,831	1,570	1,330	1,227	1,443	1,396	0	0	4,604	4,193
Tennessee	3,836	3,336	3,360	2,952	1,602	1,887	0	0	8,797	8,175
West South Central	23,473	20,258	18,796	17,501	15,470	16,035	17	16	57,756	53,810
Arkansas	1,720	1,461	1,143	1,069	1,532	1,469	0	0	4,394	3,999
Louisiana	3,166	2,678	2,312	2,158	2,996	3,012	1	1	8,475	7,849
Oklahoma	2,468	2,189	1,916	1,907	1,604	1,560	0	0	5,989	5,656
Texas	16,119	13,930	13,425	12,367	9,338	9,993	16	15	38,898	36,305
Mountain	9,816	9,958	8,836	8,881	7,369	7,428	13	12	26,035	26,278
Arizona	3,864	4,119	2,810	2,877	1,169	1,150	1	1	7,843	8,146
Colorado	1,780	1,674	1,793	1,767	1,369	1,321	8	5	4,950	4,767
Idaho	583	588	523	518	1,103	1,085	0	0	2,209	2,191
Montana	316	331	389	404	361	364	0	0	1,065	1,100
Nevada	1,517	1,528	1,114	1,109	1,026	1,172	1	1	3,658	3,809
New Mexico	667	639	866	845	694	660	0	0	2,226	2,144
Utah	903	894	1,038	1,057	800	813	4	5	2,745	2,768
Wyoming	185	186	304	305	848	863	0	0	1,338	1,353
Pacific Contiguous	10,485	11,225	13,452	13,955	7,438	7,510	74	79	31,449	32,768
California	6,847	7,582	9,546	10,192	4,415	4,385	71	76	20,879	22,235
Oregon	1,292	1,312	1,503	1,362	934	1,055	2	2	3,731	3,731
Washington	2,346	2,332	2,403	2,401	2,090	2,069	1	1	6,839	6,803
Pacific Noncontiguous	355	353	463	467	412	416	0	0	1,229	1,236
Alaska	136	139	209	209	105	110	0	0	450	458
Hawaii	219	214	254	258	307	306	0	0	779	778
U.S. Total	129,487	122,034	121,659	119,289	81,561	82,224	628	629	333,335	324,176

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

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through June 2018 and 2017 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	22,791	23,666	25,118	27,679	7,767	8,263	280	278	55,955	59,886
Connecticut	6,130	6,027	5,924	5,932	1,485	1,502	89	86	13,628	13,547
Maine	2,356	2,380	1,943	1,971	1,338	1,285	0	0	5,637	5,635
Massachusetts	9,637	10,630	12,381	14,930	2,946	3,490	177	178	25,142	29,228
New Hampshire	2,221	2,203	2,124	2,136	954	938	0	0	5,298	5,277
Rhode Island	1,401	1,415	1,772	1,744	370	365	14	14	3,557	3,538
Vermont	1,045	1,011	974	966	674	683	0	0	2,693	2,660
Middle Atlantic	64,819	61,103	76,231	74,791	35,362	34,968	2,010	1,938	178,423	172,800
New Jersey	13,173	12,650	18,620	18,269	3,417	3,497	158	153	35,369	34,568
New York	23,928	23,032	36,455	35,741	8,232	8,155	1,492	1,383	70,107	68,311
Pennsylvania	27,719	25,420	21,156	20,782	23,713	23,317	359	403	72,947	69,921
East North Central	93,400	85,269	90,497	88,262	91,975	90,364	308	280	276,179	264,175
Illinois	22,521	20,345	24,879	24,009	21,000	20,315	273	245	68,674	64,914
Indiana	16,729	14,793	11,799	11,412	20,373	20,069	11	10	48,911	46,284
Michigan	16,669	15,879	18,976	18,862	14,878	14,500	4	3	50,527	49,244
Ohio	26,534	23,788	23,069	22,432	23,670	23,726	21	22	73,294	69,968
Wisconsin	10,947	10,464	11,773	11,548	12,053	11,754	0	0	34,773	33,766
West North Central	54,391	49,164	51,100	49,025	42,897	42,349	26	24	148,413	140,562
Iowa	7,388	6,835	6,112	5,918	11,380	10,967	0	0	24,880	23,721
Kansas	6,841	5,875	7,606	7,280	5,279	5,274	0	0	19,726	18,430
Minnesota	11,277	10,769	11,494	11,219	10,218	10,151	14	12	33,004	32,151
Missouri	18,284	15,962	15,338	14,494	5,582	5,768	12	12	39,217	36,236
Nebraska	5,309	4,833	4,754	4,603	4,996	5,049	0	0	15,060	14,485
North Dakota	2,705	2,496	3,313	3,131	4,094	3,801	0	0	10,111	9,428
South Dakota	2,586	2,394	2,481	2,379	1,347	1,338	0	0	6,414	6,111
South Atlantic	177,308	161,324	151,393	148,307	68,273	67,698	631	638	397,605	377,966
Delaware	2,478	2,210	2,090	1,988	1,041	1,016	0	0	5,610	5,214
District of Columbia	1,228	1,129	3,961	3,869	88	85	157	159	5,434	5,241
Florida	56,477	54,633	45,205	45,328	8,052	8,121	39	45	109,773	108,128
Georgia	28,162	25,103	22,801	22,180	15,603	15,419	85	84	66,650	62,786
Maryland	13,887	12,578	14,297	13,916	1,802	1,821	256	264	30,241	28,579
North Carolina	29,923	26,017	23,582	22,819	13,035	13,206	4	2	66,544	62,045
South Carolina	15,301	13,392	10,499	10,273	13,328	13,171	0	0	39,128	36,836
Virginia	23,795	21,009	25,114	24,258	8,306	8,311	91	84	57,306	53,662
West Virginia	6,056	5,253	3,844	3,675	7,018	6,547	0	0	16,918	15,475
East South Central	60,469	52,689	44,757	42,137	47,478	49,054	0	0	152,705	143,879
Alabama	15,762	13,919	11,000	10,699	16,727	16,363	0	0	43,489	40,980
Kentucky	13,799	11,966	9,499	9,024	13,451	13,652	0	0	36,749	34,642
Mississippi	9,160	7,994	6,612	6,457	8,297	8,162	0	0	24,070	22,613
Tennessee	21,748	18,810	17,646	15,957	9,003	10,877	0	0	48,397	45,644
West South Central	107,583	93,873	94,111	89,837	87,139	88,949	94	93	288,927	272,753
Arkansas	9,217	7,913	5,746	5,562	8,560	8,136	0	0	23,524	21,611
Louisiana	14,946	13,157	11,840	11,524	16,988	16,990	6	6	43,781	41,677
Oklahoma	11,682	10,030	10,061	9,519	8,894	8,555	0	0	30,637	28,104
Texas	71,738	62,773	66,463	63,233	52,697	55,268	88	86	190,986	181,360
Mountain	45,452	45,546	46,986	46,256	39,618	39,640	79	70	132,134	131,512
Arizona	15,056	15,262	13,999	13,990	6,654	6,721	4	4	35,712	35,977
Colorado	9,067	8,879	9,916	9,815	7,686	7,456	45	33	26,715	26,183
Idaho	4,124	4,333	3,097	3,091	4,065	3,921	0	0	11,287	11,346
Montana	2,712	2,698	2,484	2,483	2,092	2,097	0	0	7,288	7,277
Nevada	5,678	5,610	5,629	5,207	5,695	6,155	4	4	17,006	16,976
New Mexico	3,193	3,088	4,436	4,280	3,827	3,601	0	0	11,456	10,969
Utah	4,195	4,227	5,580	5,528	4,498	4,639	25	30	14,299	14,423
Wyoming	1,426	1,450	1,846	1,862	5,100	5,050	0	0	8,372	8,362
Pacific Contiguous	67,819	71,051	76,827	78,021	40,156	39,926	410	427	185,213	189,424
California	39,021	40,925	53,931	54,915	22,490	22,321	393	411	115,835	118,572
Oregon	9,819	10,290	8,124	8,075	5,577	5,739	13	13	23,532	24,116
Washington	18,979	19,836	14,773	15,030	12,090	11,866	4	2	45,846	46,735
Pacific Noncontiguous	2,323	2,330	2,819	2,875	2,368	2,436	0	0	7,510	7,641
Alaska	1,042	1,080	1,367	1,391	664	683	0	0	3,073	3,154
Hawaii	1,281	1,250	1,452	1,484	1,704	1,753	0	0	4,437	4,486
U.S. Total	696,354	646,013	659,838	647,189	463,033	463,648	3,838	3,748	1,823,064	1,760,598

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	721	731	696	731	163	179	3	4	1,584	1,645
Connecticut	210	202	175	170	32	36	2	2	419	410
Maine	55	58	39	41	20	21	0	0	115	120
Massachusetts	320	336	353	395	74	81	1	1	748	813
New Hampshire	65	66	57	54	16	20	0	0	139	140
Rhode Island	43	41	47	47	9	10	0	0	100	99
Vermont	27	28	25	25	12	11	0	0	64	64
Middle Atlantic	1,778	1,762	1,699	1,763	401	415	38	39	3,917	3,978
New Jersey	416	431	422	441	60	67	2	2	901	941
New York	777	757	963	1,004	80	87	32	31	1,852	1,879
Pennsylvania	585	573	314	318	260	261	4	5	1,164	1,157
East North Central	2,226	2,132	1,633	1,637	1,130	1,117	3	3	4,992	4,889
Illinois	557	544	399	389	249	233	3	3	1,208	1,168
Indiana	351	325	221	215	249	255	0	0	822	796
Michigan	479	461	377	388	184	185	0	0	1,040	1,034
Ohio	578	534	413	406	273	272	0	0	1,264	1,212
Wisconsin	261	269	222	239	174	171	0	0	657	679
West North Central	1,274	1,165	980	950	599	595	0	0	2,854	2,711
Iowa	180	170	117	116	165	145	0	0	463	431
Kansas	181	177	154	150	65	68	0	0	399	394
Minnesota	269	245	232	224	141	143	0	0	643	612
Missouri	457	395	309	292	79	82	0	0	846	768
Nebraska	104	100	79	81	70	82	0	0	253	263
North Dakota	38	35	48	47	59	58	0	0	146	140
South Dakota	45	43	40	41	19	19	0	0	105	102
South Atlantic	3,988	3,830	2,655	2,605	794	771	9	9	7,447	7,214
Delaware	49	49	36	35	15	15	0	0	99	100
District of Columbia	27	28	84	85	1	1	3	3	115	117
Florida	1,303	1,349	785	809	113	112	1	1	2,202	2,271
Georgia	700	635	424	413	172	165	1	1	1,297	1,212
Maryland	305	325	265	277	25	26	3	4	598	631
North Carolina	623	556	389	370	148	138	0	0	1,160	1,063
South Carolina	394	357	222	211	147	140	0	0	764	707
Virginia	492	442	389	347	97	100	1	1	980	889
West Virginia	95	90	61	59	77	74	0	0	233	223
East South Central	1,262	1,118	900	837	496	518	0	0	2,658	2,473
Alabama	388	349	240	234	184	183	0	0	812	767
Kentucky	248	226	169	159	126	130	0	0	544	515
Mississippi	211	179	141	126	91	89	0	0	443	394
Tennessee	414	365	351	318	95	115	0	0	859	798
West South Central	2,565	2,214	1,545	1,481	870	905	1	1	4,981	4,602
Arkansas	172	157	86	94	84	92	0	0	341	343
Louisiana	297	273	196	203	153	177	0	0	646	652
Oklahoma	265	231	163	155	87	84	0	0	515	470
Texas	1,832	1,554	1,100	1,029	545	552	1	1	3,479	3,136
Mountain	1,211	1,229	894	911	506	527	1	1	2,612	2,669
Arizona	509	521	317	323	80	80	0	0	906	924
Colorado	219	213	193	189	103	101	1	1	515	504
Idaho	62	67	44	48	82	85	0	0	187	201
Montana	37	39	41	42	18	19	0	0	96	101
Nevada	177	178	85	84	77	86	0	0	339	348
New Mexico	89	86	93	92	38	40	0	0	220	218
Utah	96	103	91	100	51	57	0	0	239	260
Wyoming	23	23	31	31	57	60	0	0	111	113
Pacific Contiguous	1,735	1,846	2,041	2,091	797	822	7	7	4,579	4,766
California	1,363	1,470	1,701	1,765	650	660	7	6	3,720	3,902
Oregon	142	144	134	121	54	66	0	0	331	331
Washington	230	232	206	205	92	96	0	0	528	532
Pacific Noncontiguous	102	96	114	113	98	89	0	0	314	298
Alaska	31	31	39	43	20	19	0	0	89	93
Hawaii	72	65	75	69	78	70	0	0	225	205
U.S. Total	16,863	16,123	13,159	13,120	5,853	5,937	64	64	35,939	35,243

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	4,671	4,434	4,080	4,053	1,012	1,015	27	24	9,790	9,525
Connecticut	1,294	1,210	993	945	208	197	12	9	2,507	2,361
Maine	377	382	239	241	121	120	0	0	737	743
Massachusetts	2,088	1,988	2,072	2,151	432	461	12	12	4,604	4,612
New Hampshire	437	418	338	313	123	115	0	0	898	846
Rhode Island	289	259	291	262	56	52	2	3	638	576
Vermont	187	178	148	141	71	69	0	0	406	388
Middle Atlantic	10,297	9,704	9,254	9,278	2,473	2,427	220	215	22,244	21,623
New Jersey	2,061	2,004	2,265	2,272	347	357	14	14	4,686	4,647
New York	4,354	4,079	5,082	5,117	502	475	180	171	10,117	9,843
Pennsylvania	3,883	3,621	1,907	1,888	1,624	1,594	26	29	7,440	7,133
East North Central	12,321	11,270	9,161	8,941	6,454	6,361	21	19	27,956	26,591
Illinois	2,856	2,596	2,223	2,149	1,388	1,312	18	15	6,485	6,073
Indiana	1,978	1,766	1,215	1,175	1,457	1,484	1	1	4,651	4,426
Michigan	2,612	2,463	2,131	2,093	1,091	1,070	0	0	5,834	5,627
Ohio	3,293	2,914	2,306	2,242	1,602	1,586	1	2	7,202	6,744
Wisconsin	1,582	1,530	1,286	1,281	917	910	0	0	3,784	3,721
West North Central	6,326	5,762	4,906	4,712	3,097	3,017	2	2	14,331	13,494
Iowa	904	823	585	544	714	634	0	0	2,203	2,001
Kansas	860	771	792	757	392	395	0	0	2,044	1,923
Minnesota	1,470	1,392	1,177	1,175	778	782	1	1	3,427	3,350
Missouri	1,986	1,746	1,407	1,317	387	394	1	1	3,781	3,458
Nebraska	547	509	417	408	375	382	0	0	1,339	1,299
North Dakota	268	251	296	285	347	328	0	0	912	864
South Dakota	291	270	231	225	104	103	0	0	626	598
South Atlantic	20,832	19,116	14,266	13,953	4,385	4,302	48	51	39,532	37,422
Delaware	314	300	199	203	80	81	0	0	593	584
District of Columbia	157	145	469	452	7	7	14	15	647	619
Florida	6,603	6,377	4,288	4,322	628	636	3	4	11,522	11,339
Georgia	3,188	2,925	2,221	2,206	901	874	5	4	6,315	6,009
Maryland	1,846	1,798	1,507	1,528	152	152	19	21	3,524	3,499
North Carolina	3,330	2,867	2,034	1,929	797	785	0	0	6,162	5,581
South Carolina	1,923	1,712	1,080	1,069	791	784	0	0	3,794	3,564
Virginia	2,780	2,383	2,103	1,888	567	543	8	7	5,457	4,820
West Virginia	690	610	366	356	463	440	0	0	1,519	1,406
East South Central	6,716	5,929	4,698	4,452	2,765	2,910	0	0	14,178	13,290
Alabama	1,937	1,761	1,247	1,243	1,003	1,003	0	0	4,187	4,007
Kentucky	1,430	1,263	908	871	743	762	0	0	3,080	2,895
Mississippi	1,048	903	711	667	501	498	0	0	2,260	2,068
Tennessee	2,302	2,002	1,832	1,671	518	646	0	0	4,652	4,320
West South Central	11,599	10,086	7,793	7,535	4,725	4,825	8	8	24,124	22,454
Arkansas	909	793	461	465	473	467	0	0	1,843	1,724
Louisiana	1,387	1,226	1,055	1,023	891	887	1	1	3,334	3,137
Oklahoma	1,181	1,052	786	751	456	447	0	0	2,424	2,251
Texas	8,121	7,014	5,491	5,297	2,905	3,024	7	7	16,524	15,342
Mountain	5,421	5,344	4,499	4,416	2,495	2,506	7	7	12,423	12,273
Arizona	1,930	1,869	1,485	1,455	419	419	0	0	3,835	3,744
Colorado	1,078	1,065	981	956	553	537	4	3	2,616	2,561
Idaho	423	430	249	247	267	257	0	0	939	933
Montana	298	294	252	252	102	104	0	0	652	650
Nevada	691	668	444	407	326	338	0	0	1,462	1,414
New Mexico	399	394	439	434	220	217	0	0	1,057	1,045
Utah	441	462	470	483	261	281	3	3	1,175	1,229
Wyoming	161	162	179	181	347	353	0	0	688	697
Pacific Contiguous	10,205	10,369	10,318	10,182	3,651	3,520	36	35	24,210	24,106
California	7,314	7,409	8,305	8,197	2,768	2,628	34	33	18,421	18,267
Oregon	1,062	1,092	727	716	333	348	1	1	2,123	2,158
Washington	1,829	1,869	1,286	1,268	551	544	0	0	3,666	3,681
Pacific Noncontiguous	633	598	680	668	549	511	0	0	1,863	1,776
Alaska	226	230	256	274	117	115	0	0	599	619
Hawaii	407	368	424	394	432	396	0	0	1,264	1,157
U.S. Total	89,021	82,611	69,655	68,190	31,607	31,393	369	359	190,652	182,553

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	20.36	18.75	15.89	14.99	12.44	12.37	7.80	8.18	17.07	16.02
Connecticut	21.62	20.47	16.65	16.03	15.04	13.03	11.56	11.44	18.62	17.51
Maine	16.16	16.17	11.74	11.97	8.39	9.09	--	--	12.51	12.89
Massachusetts	21.11	18.56	16.35	15.07	14.45	13.56	4.94	5.32	17.76	16.09
New Hampshire	19.63	19.30	15.58	14.72	9.39	12.03	--	--	15.89	16.00
Rhode Island	18.64	16.65	15.15	14.52	14.10	14.10	17.24	19.80	16.38	15.32
Vermont	18.50	18.02	15.44	14.80	10.84	10.39	--	--	15.30	14.81
Middle Atlantic	16.53	16.49	12.84	13.42	6.87	6.93	12.09	12.09	12.99	13.20
New Jersey	15.64	15.96	12.80	13.33	10.40	11.13	8.36	9.23	13.72	14.19
New York	19.30	18.76	15.11	15.98	5.98	6.12	13.64	13.77	15.47	15.70
Pennsylvania	14.38	14.52	8.81	8.96	6.65	6.58	7.49	7.46	10.03	10.04
East North Central	13.30	13.49	10.07	10.20	6.97	7.10	6.75	6.76	10.15	10.27
Illinois	12.56	12.95	8.96	9.05	6.45	6.52	6.53	6.47	9.44	9.65
Indiana	12.02	12.05	10.30	10.37	7.21	7.35	10.33	10.96	9.64	9.65
Michigan	16.07	15.86	11.03	11.09	7.25	7.42	10.63	11.90	11.63	11.62
Ohio	12.64	12.67	9.96	9.89	6.76	6.69	7.47	7.38	9.91	9.78
Wisconsin	14.28	15.05	10.89	11.52	7.57	8.11	14.73	14.71	10.65	11.37
West North Central	12.96	13.36	10.67	10.73	8.03	7.92	11.65	11.29	10.78	10.80
Iowa	13.81	13.92	10.95	10.84	8.13	7.47	--	--	10.50	10.19
Kansas	11.56	13.56	10.66	10.99	7.51	7.37	--	--	10.32	10.99
Minnesota	14.09	13.96	11.26	11.21	8.07	8.15	11.08	10.80	11.23	11.11
Missouri	13.23	13.25	10.88	10.81	8.16	8.12	12.27	11.77	11.63	11.49
Nebraska	11.31	12.06	9.26	9.68	7.73	8.16	--	--	9.45	9.85
North Dakota	12.07	12.34	9.68	9.78	8.56	8.81	--	--	9.66	9.85
South Dakota	12.39	12.57	9.68	9.99	7.74	7.76	--	--	10.18	10.33
South Atlantic	11.96	12.20	9.32	9.39	6.64	6.57	8.00	8.06	10.07	10.17
Delaware	13.21	13.40	9.65	9.79	7.37	7.81	--	--	10.58	10.81
District of Columbia	12.05	12.59	12.08	11.66	8.54	8.34	9.12	9.55	11.93	11.76
Florida	11.37	12.02	9.04	9.60	7.68	8.01	7.53	8.54	10.18	10.79
Georgia	12.26	12.53	9.70	9.92	6.28	6.10	5.89	5.83	10.10	10.16
Maryland	13.92	14.22	10.47	10.62	7.88	8.07	7.95	7.86	11.78	12.01
North Carolina	11.24	11.07	8.58	8.32	6.46	6.14	7.82	8.35	9.38	9.08
South Carolina	12.91	13.07	10.76	10.66	6.34	6.27	--	--	10.26	10.20
Virginia	12.40	11.91	8.48	7.87	6.76	6.65	8.22	7.54	9.79	9.23
West Virginia	11.57	11.69	9.25	9.37	6.52	6.55	--	--	8.76	8.82
East South Central	11.32	11.47	10.48	10.69	6.12	6.14	--	--	9.55	9.51
Alabama	12.41	12.79	11.29	11.66	6.37	6.52	--	--	9.98	10.15
Kentucky	10.56	10.68	9.53	9.67	5.83	5.57	--	--	8.64	8.45
Mississippi	11.55	11.40	10.57	10.27	6.30	6.37	--	--	9.62	9.40
Tennessee	10.79	10.93	10.43	10.77	5.91	6.10	--	--	9.77	9.76
West South Central	10.93	10.93	8.22	8.46	5.62	5.65	8.36	8.27	8.62	8.55
Arkansas	9.99	10.73	7.49	8.77	5.49	6.26	9.84	11.22	7.77	8.57
Louisiana	9.37	10.19	8.48	9.39	5.12	5.87	9.65	10.56	7.63	8.31
Oklahoma	10.72	10.53	8.52	8.15	5.40	5.39	--	--	8.59	8.31
Texas	11.36	11.15	8.20	8.32	5.84	5.53	8.26	8.11	8.94	8.64
Mountain	12.34	12.34	10.12	10.26	6.86	7.09	9.73	10.47	10.03	10.16
Arizona	13.16	12.65	11.27	11.23	6.87	6.93	11.45	11.38	11.55	11.34
Colorado	12.28	12.75	10.78	10.72	7.52	7.61	9.22	10.86	10.41	10.57
Idaho	10.58	11.42	8.38	9.35	7.41	7.87	--	--	8.48	9.17
Montana	11.85	11.73	10.48	10.49	4.92	5.32	--	--	9.00	9.15
Nevada	11.67	11.64	7.64	7.59	7.46	7.31	8.26	8.54	9.26	9.13
New Mexico	13.37	13.41	10.70	10.93	5.53	6.02	--	--	9.89	10.16
Utah	10.63	11.48	8.78	9.48	6.38	7.02	10.62	10.20	8.69	9.41
Wyoming	12.30	12.21	10.24	10.22	6.70	6.90	--	--	8.28	8.38
Pacific Contiguous	16.54	16.45	15.17	14.99	10.71	10.94	9.21	8.50	14.56	14.54
California	19.90	19.39	17.81	17.32	14.73	15.06	9.21	8.47	17.82	17.55
Oregon	11.02	10.97	8.94	8.89	5.78	6.25	9.31	9.37	8.87	8.87
Washington	9.79	9.95	8.59	8.54	4.42	4.62	8.73	8.52	7.73	7.83
Pacific Noncontiguous	28.84	27.17	24.60	24.18	23.83	21.40	--	--	25.57	24.10
Alaska	22.54	22.14	18.59	20.76	18.77	16.89	--	--	19.83	20.25
Hawaii	32.76	30.45	29.56	26.95	25.56	23.03	--	--	28.88	26.37
U.S. Total	13.02	13.21	10.82	11.00	7.18	7.22	10.15	10.14	10.78	10.87

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 June 2018 and 2017 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD	June 2018 YTD	June 2017 YTD
New England	20.50	18.73	16.24	14.64	13.04	12.28	9.49	8.52	17.50	15.91
Connecticut	21.11	20.07	16.76	15.93	14.02	13.14	13.61	10.84	18.40	17.43
Maine	15.99	16.04	12.28	12.23	9.08	9.35	--	--	13.07	13.18
Massachusetts	21.66	18.71	16.73	14.41	14.67	13.20	6.85	6.53	18.31	15.78
New Hampshire	19.67	18.96	15.92	14.64	12.92	12.30	--	--	16.95	16.03
Rhode Island	20.60	18.28	16.41	15.03	15.23	14.31	16.81	19.38	17.94	16.27
Vermont	17.90	17.57	15.19	14.59	10.55	10.13	--	--	15.08	14.58
Middle Atlantic	15.89	15.88	12.14	12.40	6.99	6.94	10.93	11.07	12.47	12.51
New Jersey	15.64	15.84	12.17	12.44	10.14	10.22	8.58	9.02	13.25	13.44
New York	18.19	17.71	13.94	14.32	6.10	5.83	12.04	12.40	14.43	14.41
Pennsylvania	14.01	14.25	9.01	9.08	6.85	6.84	7.35	7.29	10.20	10.20
East North Central	13.19	13.22	10.12	10.13	7.02	7.04	6.79	6.65	10.12	10.07
Illinois	12.68	12.76	8.94	8.95	6.61	6.46	6.56	6.31	9.44	9.36
Indiana	11.82	11.94	10.30	10.30	7.15	7.39	10.55	11.53	9.51	9.56
Michigan	15.67	15.51	11.23	11.10	7.33	7.38	10.93	12.13	11.55	11.43
Ohio	12.41	12.25	9.99	10.00	6.77	6.68	7.15	7.59	9.83	9.64
Wisconsin	14.45	14.62	10.92	11.09	7.61	7.74	13.96	14.42	10.88	11.02
West North Central	11.63	11.72	9.60	9.61	7.22	7.12	8.66	8.59	9.66	9.60
Iowa	12.24	12.05	9.57	9.19	6.28	5.78	--	--	8.86	8.44
Kansas	12.57	13.13	10.41	10.40	7.43	7.49	--	--	10.36	10.44
Minnesota	13.03	12.93	10.24	10.48	7.61	7.70	9.47	9.47	10.38	10.42
Missouri	10.86	10.94	9.17	9.09	6.93	6.83	7.76	7.68	9.64	9.54
Nebraska	10.31	10.52	8.78	8.87	7.50	7.56	--	--	8.89	8.97
North Dakota	9.92	10.04	8.93	9.11	8.49	8.63	--	--	9.02	9.17
South Dakota	11.24	11.28	9.33	9.46	7.71	7.69	--	--	9.76	9.79
South Atlantic	11.75	11.85	9.42	9.41	6.42	6.35	7.64	7.94	9.94	9.90
Delaware	12.69	13.57	9.51	10.22	7.64	7.96	--	--	10.56	11.20
District of Columbia	12.81	12.86	11.83	11.67	8.25	8.28	8.94	9.51	11.91	11.81
Florida	11.69	11.67	9.48	9.54	7.80	7.83	8.00	8.47	10.50	10.49
Georgia	11.32	11.65	9.74	9.95	5.77	5.67	5.38	5.10	9.47	9.57
Maryland	13.29	14.30	10.54	10.98	8.43	8.35	7.26	7.84	11.65	12.24
North Carolina	11.13	11.02	8.63	8.45	6.11	5.94	8.13	8.74	9.26	9.00
South Carolina	12.57	12.78	10.29	10.40	5.94	5.95	--	--	9.70	9.68
Virginia	11.68	11.34	8.37	7.78	6.82	6.54	8.37	7.79	9.52	8.98
West Virginia	11.39	11.61	9.52	9.69	6.59	6.72	--	--	8.98	9.09
East South Central	11.11	11.25	10.50	10.57	5.82	5.93	--	--	9.28	9.24
Alabama	12.29	12.65	11.33	11.62	6.00	6.13	--	--	9.63	9.78
Kentucky	10.36	10.55	9.55	9.65	5.52	5.58	--	--	8.38	8.36
Mississippi	11.44	11.30	10.76	10.33	6.04	6.10	--	--	9.39	9.15
Tennessee	10.58	10.64	10.38	10.47	5.75	5.94	--	--	9.61	9.46
West South Central	10.78	10.74	8.28	8.39	5.42	5.42	8.52	8.41	8.35	8.23
Arkansas	9.87	10.02	8.02	8.36	5.52	5.74	11.23	11.58	7.84	7.98
Louisiana	9.28	9.32	8.91	8.87	5.25	5.22	9.89	10.11	7.62	7.53
Oklahoma	10.11	10.49	7.81	7.89	5.13	5.23	--	--	7.91	8.01
Texas	11.32	11.17	8.26	8.38	5.51	5.47	8.41	8.28	8.65	8.46
Mountain	11.93	11.73	9.58	9.55	6.30	6.32	9.49	9.92	9.40	9.33
Arizona	12.82	12.24	10.61	10.40	6.30	6.23	9.76	9.47	10.74	10.41
Colorado	11.89	11.99	9.90	9.74	7.20	7.20	8.95	10.08	9.79	9.78
Idaho	10.26	9.92	8.05	7.98	6.56	6.55	--	--	8.32	8.23
Montana	11.00	10.90	10.13	10.16	4.86	4.95	--	--	8.94	8.93
Nevada	12.17	11.91	7.89	7.82	5.73	5.49	7.91	7.99	8.59	8.33
New Mexico	12.50	12.75	9.89	10.14	5.74	6.03	--	--	9.23	9.53
Utah	10.52	10.94	8.42	8.73	5.81	6.06	10.67	10.05	8.22	8.52
Wyoming	11.28	11.17	9.72	9.74	6.81	7.00	--	--	8.21	8.33
Pacific Contiguous	15.05	14.59	13.43	13.05	9.09	8.82	8.71	8.12	13.07	12.73
California	18.74	18.10	15.40	14.93	12.31	11.78	8.69	8.08	15.90	15.41
Oregon	10.81	10.61	8.95	8.87	5.97	6.07	9.26	9.31	9.02	8.95
Washington	9.64	9.42	8.71	8.44	4.56	4.58	9.46	9.10	8.00	7.88
Pacific Noncontiguous	27.27	25.65	24.14	23.23	23.19	20.97	--	--	24.81	23.25
Alaska	21.70	21.29	18.74	19.72	17.59	16.86	--	--	19.50	19.64
Hawaii	31.79	29.42	29.21	26.52	25.38	22.57	--	--	28.48	25.78
U.S. Total	12.78	12.79	10.56	10.54	6.83	6.77	9.61	9.58	10.46	10.37

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

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - June 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,837	17,582,382	774,808	726	143,395,753
2009	125,208,829	17,562,235	757,537	704	143,529,305
2010	125,717,935	17,674,338	747,747	239	144,140,259
2011	126,143,072	17,638,062	727,920	92	144,509,146
2012	126,832,343	17,729,029	732,385	83	145,293,840
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
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
April	133,468,618	18,458,677	782,651	84	152,710,030
May	134,234,873	18,538,214	806,137	84	153,579,308
June	134,061,176	18,567,537	816,824	84	153,445,621
Rolling 12 Months Ending in June					
2017	131,834,813	18,225,643	828,412	84	150,888,952
2018	133,259,109	18,441,278	811,571	85	152,512,043

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:
June 2018 and 2017

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	6,371,785	6,376,869	895,503	892,137	20,168	26,956	6	6	7,287,462	7,295,968
Connecticut	1,504,012	1,496,443	153,962	153,111	4,281	4,422	3	3	1,662,258	1,653,979
Maine	712,006	714,918	99,934	100,393	3,071	3,151	0	0	815,011	818,462
Massachusetts	2,791,180	2,784,798	417,929	414,262	7,760	14,103	2	2	3,216,871	3,213,165
New Hampshire	623,496	618,975	108,037	107,687	3,167	3,249	0	0	734,700	729,911
Rhode Island	423,960	445,537	58,446	60,319	1,753	1,806	1	1	484,160	507,663
Vermont	317,131	316,198	57,195	56,365	136	225	0	0	374,462	372,788
Middle Atlantic	16,157,927	16,046,183	2,344,614	2,309,110	29,805	42,304	20	20	18,532,366	18,397,617
New Jersey	3,568,071	3,540,625	523,252	519,389	11,814	11,798	6	6	4,103,143	4,071,818
New York	7,193,683	7,145,861	1,107,230	1,091,027	6,681	7,588	8	8	8,307,602	8,244,484
Pennsylvania	5,396,173	5,359,697	714,132	698,694	11,310	22,918	6	6	6,121,621	6,081,315
East North Central	20,250,115	20,114,858	2,504,712	2,490,714	46,867	53,206	9	9	22,801,703	22,658,787
Illinois	5,295,133	5,269,638	614,325	609,240	4,085	5,755	3	3	5,913,546	5,884,636
Indiana	2,856,285	2,827,025	353,039	350,400	15,196	17,719	1	1	3,224,521	3,195,145
Michigan	4,395,451	4,362,454	549,736	550,008	NM	NM	2	2	4,950,823	4,918,266
Ohio	4,979,604	4,952,544	629,643	625,511	17,019	19,076	2	2	5,626,268	5,597,133
Wisconsin	2,723,642	2,703,197	357,969	355,555	NM	NM	1	1	3,086,545	3,063,607
West North Central	9,553,439	9,459,499	1,466,017	1,451,658	115,400	116,714	3	3	11,134,859	11,027,874
Iowa	1,395,936	1,382,147	245,352	243,156	NM	NM	0	0	1,648,233	1,632,258
Kansas	1,284,042	1,270,447	236,706	233,051	26,121	26,173	0	0	1,546,869	1,529,671
Minnesota	2,413,765	2,390,244	291,060	288,472	NM	NM	1	1	2,713,157	2,687,020
Missouri	2,816,640	2,785,587	383,320	379,383	6,736	8,420	2	2	3,206,698	3,173,392
Nebraska	858,985	854,882	161,598	161,224	56,096	55,816	0	0	1,076,679	1,071,922
North Dakota	380,244	377,202	73,927	73,315	8,085	7,960	0	0	462,256	458,477
South Dakota	403,827	398,990	74,054	73,057	NM	NM	0	0	480,967	475,134
South Atlantic	27,956,265	27,607,808	3,804,874	3,746,884	79,362	80,594	13	13	31,840,514	31,435,299
Delaware	429,166	423,519	54,762	53,908	593	1,193	0	0	484,521	478,620
District of Columbia	273,730	267,538	26,294	26,123	1	1	3	3	300,028	293,665
Florida	9,375,842	9,250,603	1,237,075	1,220,058	20,625	20,945	2	2	10,633,544	10,491,608
Georgia	4,387,017	4,327,205	585,596	575,567	19,968	19,909	1	1	4,992,582	4,922,682
Maryland	2,333,355	2,313,280	253,461	252,182	8,735	8,843	5	5	2,595,556	2,574,310
North Carolina	4,566,271	4,498,213	704,561	684,643	9,932	10,012	1	1	5,280,765	5,192,869
South Carolina	2,296,638	2,263,378	367,892	362,315	4,315	4,330	0	0	2,668,845	2,630,023
Virginia	3,437,330	3,407,113	430,857	428,219	3,778	3,803	1	1	3,871,966	3,839,136
West Virginia	856,916	856,959	144,376	143,869	11,415	11,558	0	0	1,012,707	1,012,386
East South Central	8,477,479	8,404,068	1,404,106	1,386,919	23,207	25,252	0	0	9,904,792	9,816,239
Alabama	2,258,258	2,242,041	371,124	367,005	8,317	8,234	0	0	2,637,699	2,617,280
Kentucky	1,999,357	1,985,671	303,254	300,457	6,108	7,715	0	0	2,308,719	2,293,843
Mississippi	1,318,048	1,309,410	239,943	236,804	7,933	7,900	0	0	1,565,924	1,554,114
Tennessee	2,901,816	2,866,946	489,785	482,653	849	1,403	0	0	3,392,450	3,351,002
West South Central	16,253,165	15,911,371	2,299,504	2,233,455	203,825	193,403	6	6	18,756,500	18,338,235
Arkansas	1,395,965	1,385,158	192,440	190,592	38,371	36,440	2	2	1,626,778	1,612,192
Louisiana	2,100,933	2,088,667	294,457	292,071	18,759	18,842	1	1	2,414,150	2,399,581
Oklahoma	1,786,627	1,769,182	285,938	281,917	18,016	18,087	0	0	2,090,581	2,069,186
Texas	10,969,640	10,668,364	1,526,669	1,468,875	128,679	120,034	3	3	12,624,991	12,257,276
Mountain	9,797,974	9,636,147	1,396,269	1,382,082	90,479	91,053	5	5	11,284,727	11,109,287
Arizona	2,786,143	2,743,287	321,835	320,716	6,580	6,968	2	2	3,114,560	3,070,973
Colorado	2,323,184	2,284,230	364,734	360,835	14,694	14,675	1	1	2,702,613	2,659,741
Idaho	740,965	725,056	110,440	108,630	28,735	28,501	0	0	880,140	862,187
Montana	511,770	505,264	110,414	108,634	8,938	9,351	0	0	631,122	623,249
Nevada	1,185,942	1,163,420	165,383	163,148	NM	NM	1	1	1,354,812	1,330,077
New Mexico	902,278	893,459	139,545	138,657	8,561	8,676	0	0	1,050,384	1,040,792
Utah	1,073,423	1,050,164	124,908	122,537	9,642	9,577	1	1	1,207,974	1,182,279
Wyoming	274,269	271,267	59,010	58,925	9,843	9,797	0	0	343,122	339,989
Pacific Contiguous	18,515,527	18,534,489	2,337,999	2,331,837	205,483	205,768	22	23	21,059,031	21,072,117
California	13,665,468	13,770,256	1,687,955	1,703,494	149,736	150,031	14	15	15,503,173	15,623,796
Oregon	1,786,846	1,738,583	255,020	238,496	26,404	26,508	2	2	2,068,272	2,003,589
Washington	3,063,213	3,025,650	395,024	389,847	29,343	29,229	6	6	3,487,586	3,444,732
Pacific Noncontiguous	727,500	719,463	113,939	114,941	NM	NM	0	0	843,667	836,589
Alaska	291,698	287,264	54,145	53,517	NM	NM	0	0	347,273	342,184
Hawaii	435,802	432,199	59,794	61,424	798	782	0	0	496,394	494,405
U.S. Total	134,061,176	132,810,755	18,567,537	18,339,737	816,824	837,435	84	85	153,445,621	151,988,012

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), May 2018 to June 2018

		As of End of May 2018	Activity During June 2018 as Reported to EIA		As of End of June 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*	*88,576.0*	*149.0*	*25.0*	*88,700.0*	*124.0*	*1,185.7*	*5,277.1*	*537.8*	*8,000.0*	*0.0*	*0.0*	*537.8*	*8,000.0*	*89,237.8*	*96,700.0*
..... *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	88,605.3	149.0	25.0	88,729.3	124.0	1,185.7	5,277.1	537.8	8,000.0	0.0	0.0	537.8	8,000.0	89,267.1	96,729.3
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*27,182.7*	*212.4*	*38.5*	*27,356.6*	*173.9*	*2,449.8*	*5,205.3*	*133.2*	*4,428.5*	*0.0*	*1.2*	*133.2*	*4,427.3*	*27,489.8*	*31,783.9*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.4*	*0.0*	*0.0*	*405.4*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	28,940.6	212.4	38.5	29,114.5	173.9	2,449.8	5,205.3	133.2	4,428.5	0.0	1.2	133.2	4,427.3	29,247.7	33,541.8
..... Conventional Hydroelectric	Utility Scale Facilities	79,865.1	107.2	30.1	79,942.2	77.1	-115.6	21.1	0.0	274.8	0.0	6.1	0.0	268.7	79,942.2	80,210.9
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,839.1*	*0.2*	*36.9*	*8,802.4*	*-36.7*	*-260.0*	*-215.5*	*0.0*	*167.9*	*0.0*	*24.8*	*0.0*	*143.1*	*8,802.4*	*8,945.5*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,079.3*	*0.0*	*7.3*	*2,072.0*	*-7.3*	*-36.1*	*-36.1*	*1.0*	*4.2*	*2.0*	*15.7*	*-1.0*	*-11.5*	*2,071.0*	*2,060.5*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,245.0*	*0.0*	*10.0*	*2,235.0*	*-10.0*	*-11.8*	*-11.8*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,235.0*	*2,235.0*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*788.1*	*50.4*	*0.0*	*838.5*	*50.4*	*60.3*	*52.5*	*0.0*	*34.0*	*0.0*	*0.4*	*0.0*	*33.6*	*838.5*	*872.1*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,951.5	50.6	54.2	13,947.9	-3.6	-247.6	-210.9	1.0	206.1	2.0	40.9	-1.0	165.2	13,946.9	14,113.1
..... Geothermal	Utility Scale Facilities	2,485.6	16.0	4.8	2,496.8	11.2	4.2	41.2	0.0	39.9	0.0	0.0	0.0	39.9	2,496.8	2,536.7
... Renewable Sources Subtotal	***Utility Scale Facilities***	***213,848.1***	***535.2***	***152.6***	***214,230.7***	***382.6***	***3,276.5***	***10,333.8***	***672.0***	***12,949.3***	***2.0***	***48.2***	***670.0***	***12,901.1***	***214,900.7***	***227,131.8***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*254,039.4*	*2,487.9*	*383.7*	*256,143.6*	*2,104.2*	*9,767.7*	*11,853.3*	*3,536.0*	*13,816.4*	*0.0*	*50.0*	*3,536.0*	*13,766.4*	*259,679.6*	*269,910.0*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*127,236.5*	*254.6*	*717.4*	*126,773.7*	*-462.8*	*-431.0*	*114.6*	*441.0*	*2,445.1*	*0.0*	*269.1*	*441.0*	*2,176.0*	*127,214.7*	*128,949.7*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,000.3*	*6.8*	*859.7*	*76,147.4*	*-852.9*	*1,436.9*	*1,045.7*	*0.0*	*1.0*	*0.0*	*923.8*	*0.0*	*-922.8*	*76,147.4*	*75,224.6*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,390.3*	*2.0*	*3.9*	*4,388.4*	*-1.9*	*103.5*	*158.5*	*234.9*	*543.2*	*0.0*	*2.1*	*234.9*	*541.1*	*4,623.3*	*4,929.5*
..... *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*	*122.1*	*0.0*	*0.0*	*122.1*	*0.0*	*0.3*	*0.3*	*0.0*	*40.8*	*0.0*	*0.0*	*0.0*	*40.8*	*122.1*	*162.9*
..... Natural Gas Subtotal	Utility Scale Facilities	462,898.6	2,751.3	1,964.7	463,685.2	786.6	10,877.4	13,172.4	4,211.9	16,846.5	0.0	1,245.0	4,211.9	15,601.5	467,897.1	479,286.7
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*248,185.1*	*193.8*	*3,227.6*	*245,151.3*	*-3,033.8*	*-14,298.9*	*-17,081.5*	*0.0*	*17.0*	*0.0*	*4,600.4*	*0.0*	*-4,583.4*	*245,151.3*	*240,567.9*
..... *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	249,000.1	193.8	3,227.6	245,966.3	-3,033.8	-14,298.9	-17,081.5	0.0	17.0	0.0	4,600.4	0.0	-4,583.4	245,966.3	241,382.9
..... 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	31,901.9	29.7	325.1	31,606.5	-295.4	-616.7	-751.0	3.7	22.3	0.0	9.0	3.7	13.3	31,610.2	31,619.8
..... Other Gases	Utility Scale Facilities	2,375.8	0.0	0.0	2,375.8	0.0	-81.1	-81.1	0.0	0.0	0.0	0.0	0.0	0.0	2,375.8	2,375.8
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***747,645.3***	***2,974.8***	***5,517.4***	***745,102.7***	***-2,542.6***	***-4,117.1***	***-4,739.0***	***4,215.6***	***16,885.8***	***0.0***	***5,854.4***	***4,215.6***	***11,031.4***	***749,318.3***	***756,134.1***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,866.7	0.0	12.0	22,854.7	-12.0	46.0	46.0	0.0	57.0	0.0	0.0	0.0	57.0	22,854.7	22,911.7
..... Flywheels	Utility Scale Facilities	78.2	0.0	31.2	47.0	-31.2	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	715.5	41.0	0.0	756.5	41.0	51.3	99.9	1.5	122.4	0.0	0.0	1.5	122.4	758.0	878.9
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,660.4***	***41.0***	***43.2***	***23,658.2***	***-2.2***	***102.3***	***150.9***	***1.5***	***179.4***	***0.0***	***0.0***	***1.5***	***179.4***	***23,659.7***	***23,837.6***
... Nuclear	***Utility Scale Facilities***	***99,628.9***	***0.0***	***0.0***	***99,628.9***	***0.0***	***-5.7***	***13.3***	***0.0***	***0.0***	***0.0***	***1,284.9***	***0.0***	***-1,284.9***	***99,628.9***	***98,344.0***
... All Other	***Utility Scale Facilities***	***1,775.2***	***0.0***	***0.0***	***1,775.2***	***0.0***	***356.3***	***356.3***	***0.9***	***48.8***	***0.0***	***0.0***	***0.9***	***48.8***	***1,776.1***	***1,824.0***
TOTAL	**UTILITY SCALE FACILITIES**	**1,086,557.9**	**3,551.0**	**5,713.2**	**1,084,395.7**	**-2,162.2**	**-387.7**	**6,115.3**	**4,890.0**	**30,063.3**	**2.0**	**7,187.5**	**4,888.0**	**22,875.8**	**1,089,283.7**	**1,107,271.5**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*17,552.2*			*17,959.6*	*407.4*	*1,735.5*	*3,416.2*								
..... Estimated Total Solar Photovoltaic	All Facilities	44,734.9			45,316.2	581.3	4,185.3	8,621.5								
... Estimated Total Solar	***All Facilities***	***46,492.8***			***47,074.1***	***581.3***	***4,185.3***	***8,621.5***								

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

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

Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - June 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
April	26,726.6	17,228.3	43,954.9
May	27,182.7	17,552.2	44,734.9
June	27,356.6	17,959.6	45,316.2

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

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - June 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
April	10,320.8	5,370.4	1,537.1	17,228.3
May	10,496.8	5,494.7	1,560.7	17,552.2
June	10,720.2	5,791.4	1,448.1	17,959.6

Values are preliminary.
For June 2018 data, improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
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, June 2018 and 2017 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	5,703.6	5,573.4	22,848.9	21,288.8	1,797.4	1,797.4	24.7	21.5	4,014.1	4,014.1	320.9	52.9	34,709.6	32,748.1
Connecticut	384.2	354.5	7,005.6	6,334.8	29.4	29.4	1.6	0.8	2,087.8	2,087.8	298.9	30.9	9,807.5	8,838.2
Maine	2,345.6	2,418.2	2,540.5	2,442.5	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,924.3	4,898.9
Massachusetts	1,301.7	1,180.6	9,110.9	8,332.0	1,768.0	1,768.0	4.9	2.5	677.2	677.2	0.0	0.0	12,862.7	11,960.3
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	1,831.1	1,815.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,944.4	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	11,046.8	10,953.9	70,719.3	68,287.3	3,409.1	3,409.1	72.4	71.4	19,295.6	19,294.5	15.7	11.2	104,558.9	102,027.4
New Jersey	936.5	884.1	12,404.1	12,339.6	420.0	420.0	1.0	1.0	4,107.9	4,107.9	15.7	11.2	17,885.2	17,763.8
New York	7,258.7	7,187.3	26,946.4	26,166.2	1,406.1	1,406.1	21.0	20.0	5,390.7	5,389.6	0.0	0.0	41,022.9	40,169.2
Pennsylvania	2,851.6	2,882.5	31,368.8	29,781.5	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	0.0	0.0	45,650.8	44,094.4
East North Central	11,790.1	10,819.1	111,989.9	113,310.0	2,179.0	2,133.0	167.4	187.4	19,024.4	19,033.7	188.1	110.1	145,338.9	145,593.3
Illinois	4,549.7	4,172.4	28,934.1	28,991.2	0.0	0.0	112.4	112.4	11,577.4	11,587.3	78.0	0.0	45,251.6	44,863.3
Indiana	2,442.8	2,206.2	23,892.4	23,121.0	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	26,446.2	25,438.2
Michigan	2,636.1	2,467.8	20,790.5	20,737.8	2,179.0	2,133.0	0.0	0.0	4,119.8	4,119.8	0.0	0.0	29,725.4	29,458.4
Ohio	931.3	847.7	25,036.5	25,939.5	0.0	0.0	33.0	53.0	2,134.0	2,134.0	0.0	0.0	28,134.8	28,974.2
Wisconsin	1,230.2	1,125.0	13,336.4	14,520.5	0.0	0.0	0.0	0.0	1,193.2	1,192.6	21.1	21.1	15,780.9	16,859.2
West North Central	26,858.7	25,558.2	60,745.4	60,954.2	657.0	657.0	3.2	2.0	5,443.4	5,444.9	24.5	24.5	93,732.2	92,640.8
Iowa	7,315.7	6,967.8	9,801.9	10,004.6	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,719.0	17,573.8
Kansas	5,136.2	5,135.0	9,781.8	9,793.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,143.8	16,154.0
Minnesota	5,043.7	4,547.6	10,301.0	10,088.3	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	17,021.1	16,312.3
Missouri	1,578.9	1,245.2	18,386.9	18,536.2	657.0	657.0	2.2	1.0	1,190.0	1,190.0	0.0	0.0	21,815.0	21,629.4
Nebraska	1,754.6	1,633.0	6,148.4	6,215.5	0.0	0.0	0.0	0.0	770.0	771.5	0.0	0.0	8,673.0	8,620.0
North Dakota	3,592.8	3,592.8	4,633.6	4,624.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,231.7	8,222.7
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	19,070.3	17,165.2	159,941.6	159,758.6	7,905.2	7,905.2	94.5	80.5	24,602.6	24,598.6	452.7	446.7	212,066.9	209,954.8
Delaware	46.1	46.4	3,331.4	3,329.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,377.5	3,375.9
District of Columbia	23.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	21.0
Florida	2,461.2	1,727.3	51,922.4	53,289.3	0.0	0.0	14.0	0.0	3,572.0	3,572.0	348.7	348.7	58,318.3	58,937.3
Georgia	3,960.0	3,913.7	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	36,901.9	36,820.3
Maryland	1,149.0	1,087.1	11,096.3	10,287.3	0.0	0.0	13.0	13.0	1,707.8	1,707.8	6.0	0.0	13,972.1	13,095.2
North Carolina	6,155.1	5,547.1	21,644.3	21,604.9	86.0	86.0	1.0	1.0	5,117.6	5,113.6	54.0	54.0	33,058.0	32,406.6
South Carolina	2,137.7	1,930.5	12,137.2	11,422.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	23,567.1	22,645.0
Virginia	2,111.1	1,865.3	19,046.0	18,714.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,966.1	27,388.9
West Virginia	1,027.1	1,035.8	13,781.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	14,873.9	15,264.6
East South Central	8,769.9	8,478.4	64,840.1	65,714.5	1,616.3	1,616.3	1.0	0.0	10,984.1	10,984.1	1.4	1.4	86,212.8	86,794.7
Alabama	4,156.0	4,084.3	20,507.4	20,260.8	0.0	0.0	1.0	0.0	5,060.4	5,060.4	0.0	0.0	29,724.8	29,405.5
Kentucky	1,245.4	1,146.6	18,874.3	18,874.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,119.7	20,020.9
Mississippi	435.3	333.3	13,268.1	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,105.8	16,013.7
Tennessee	2,933.2	2,914.2	12,190.3	12,301.4	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,262.5	21,354.6
West South Central	36,330.0	32,855.6	139,434.2	143,552.8	286.0	286.0	98.3	41.0	8,910.7	8,910.7	512.7	512.9	185,571.9	186,159.0
Arkansas	1,694.3	1,610.1	11,193.0	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,733.1	14,701.1
Louisiana	683.2	682.1	20,600.7	20,697.2	0.0	0.0	0.5	0.0	2,132.9	2,132.9	288.7	288.9	23,706.0	23,801.1
Oklahoma	8,463.1	7,602.4	18,577.0	18,176.7	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	27,298.1	26,037.1
Texas	25,489.4	22,961.0	89,063.5	93,433.7	0.0	0.0	97.8	41.0	4,960.0	4,960.0	224.0	224.0	119,834.7	121,619.7
Mountain	26,244.8	25,363.2	62,321.3	63,386.7	778.8	778.8	33.6	42.6	3,937.0	3,937.0	126.3	126.3	93,441.8	93,634.6
Arizona	5,090.8	4,994.0	19,407.3	19,407.3	216.3	216.3	30.0	40.0	3,937.0	3,937.0	0.0	0.0	28,681.4	28,594.6
Colorado	4,284.1	4,162.2	11,119.2	11,345.2	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,976.1	16,079.2
Idaho	4,011.9	4,013.3	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	5,165.8
Montana	3,471.3	3,437.3	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	6,221.7
Nevada	3,593.1	3,343.4	7,821.6	7,791.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,421.2	11,141.5
New Mexico	2,398.7	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	8,368.1	8,862.0
Utah	1,600.5	1,587.5	7,360.2	7,348.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,000.9	8,975.9
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	67,234.9	66,001.8	48,042.1	49,372.2	4,225.9	4,225.9	220.7	167.7	3,417.0	3,398.0	106.3	106.3	123,246.9	123,271.9
California	30,297.4	29,160.1	38,964.2	40,294.3	3,911.9	3,911.9	208.3	157.5	2,240.0	2,240.0	106.3	106.3	75,728.1	75,870.1
Oregon	12,219.7	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	16,542.8	16,384.3
Washington	24,717.8	24,780.5	4,759.8	4,759.8	314.0	314.0	7.4	5.2	1,177.0	1,158.0	0.0	0.0	30,976.0	31,017.5
Pacific Noncontiguous	1,181.6	1,128.1	4,219.9	4,216.6	0.0	0.0	87.7	84.5	0.0	0.0	26.6	26.6	5,515.8	5,455.8
Alaska	538.2	538.0	2,161.6	2,159.4	0.0	0.0	46.2	45.0	0.0	0.0	0.0	0.0	2,746.0	2,742.4
Hawaii	643.4	590.1	2,058.3	2,057.2	0.0	0.0	41.5	39.5	0.0	0.0	26.6	26.6	2,769.8	2,713.4
U.S. Total	214,230.7	203,896.9	745,102.7	749,841.7	22,854.7	22,808.7	803.5	698.6	99,628.9	99,615.6	1,775.2	1,418.9	1,084,395.7	1,078,280.4

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, June 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	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	1,402.1	1,347.9	810.6	646.6	0.0	0.0	1,960.7	1,957.4	1,530.2	1,621.5	0.0	0.0	5,703.6	5,573.4	1,972.4	1,568.4	2,783.0	2,215.0	2,783.0	2,215.0
Connecticut	1.0	1.1	57.5	27.7	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	384.2	354.5	365.3	294.3	422.8	322.0	422.8	322.0
Maine	921.6	898.8	5.6	4.1	0.0	0.0	732.4	732.4	686.0	782.9	0.0	0.0	2,345.6	2,418.2	38.0	27.6	43.6	31.7	43.6	31.7
Massachusetts	94.4	92.9	654.6	538.9	0.0	0.0	267.4	265.9	285.3	282.9	0.0	0.0	1,301.7	1,180.6	1,338.3	1,069.9	1,992.9	1,608.8	1,992.9	1,608.8
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	76.0	61.6	76.0	61.6	76.0	61.6
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	58.5	35.4	77.2	45.6	77.2	45.6
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	96.3	79.5	170.5	145.2	170.5	145.2
Middle Atlantic	3,205.6	3,204.1	927.5	807.4	0.0	0.0	5,633.9	5,630.7	1,279.8	1,311.7	0.0	0.0	11,046.8	10,953.9	2,790.9	2,269.4	3,718.4	3,076.8	3,718.4	3,076.8
New Jersey	7.6	7.6	689.3	636.9	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	936.5	884.1	1,376.1	1,158.9	2,065.4	1,795.8	2,065.4	1,795.8
New York	1,826.2	1,824.7	186.4	119.7	0.0	0.0	4,722.0	4,718.8	524.1	524.1	0.0	0.0	7,258.7	7,187.3	1,118.7	858.3	1,305.1	978.0	1,305.1	978.0
Pennsylvania	1,371.8	1,371.8	51.8	50.8	0.0	0.0	899.6	899.6	528.4	560.3	0.0	0.0	2,851.6	2,882.5	296.0	252.2	347.8	303.0	347.8	303.0
East North Central	9,261.2	8,322.7	404.0	350.8	0.0	0.0	857.3	853.1	1,267.6	1,292.5	0.0	0.0	11,790.1	10,819.1	331.7	244.9	735.7	595.7	735.7	595.7
Illinois	4,380.8	3,983.8	34.8	32.8	0.0	0.0	34.1	34.1	100.0	121.7	0.0	0.0	4,549.7	4,172.4	58.5	38.3	93.3	71.1	93.3	71.1
Indiana	2,109.4	1,889.7	196.7	172.6	0.0	0.0	60.4	60.4	76.3	83.5	0.0	0.0	2,442.8	2,206.2	61.5	19.0	258.2	191.6	258.2	191.6
Michigan	1,735.8	1,583.8	74.3	60.5	0.0	0.0	266.9	263.0	559.1	560.5	0.0	0.0	2,636.1	2,467.8	54.8	58.0	129.1	118.5	129.1	118.5
Ohio	605.9	533.9	76.1	67.5	0.0	0.0	101.9	101.9	147.4	144.4	0.0	0.0	931.3	847.7	107.0	92.7	183.1	160.2	183.1	160.2
Wisconsin	429.3	331.5	22.1	17.4	0.0	0.0	394.0	393.7	384.8	382.4	0.0	0.0	1,230.2	1,125.0	49.9	37.0	72.0	54.4	72.0	54.4
West North Central	22,276.6	21,317.9	733.0	397.8	0.0	0.0	3,291.7	3,289.4	557.4	553.1	0.0	0.0	26,858.7	25,558.2	293.4	233.8	1,026.4	631.6	1,026.4	631.6
Iowa	7,140.2	6,798.9	7.7	2.6	0.0	0.0	146.4	144.9	21.4	21.4	0.0	0.0	7,315.7	6,967.8	78.7	56.9	86.4	59.5	86.4	59.5
Kansas	5,116.0	5,117.8	4.2	1.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,136.2	5,135.0	16.4	9.7	20.6	10.9	20.6	10.9
Minnesota	3,707.9	3,506.5	644.9	354.5	0.0	0.0	205.9	205.9	485.0	480.7	0.0	0.0	5,043.7	4,547.6	53.6	37.9	698.5	392.4	698.5	392.4
Missouri	954.3	654.3	59.6	28.7	0.0	0.0	548.5	545.7	16.5	16.5	0.0	0.0	1,578.9	1,245.2	138.4	125.5	198.0	154.2	198.0	154.2
Nebraska	1,447.4	1,329.6	15.6	9.8	0.0	0.0	275.9	277.9	15.7	15.7	0.0	0.0	1,754.6	1,633.0	5.6	3.1	21.2	12.9	21.2	12.9
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	6,387.2	4,466.0	0.0	0.0	7,229.2	7,270.8	4,367.6	4,342.1	0.0	0.0	19,070.3	17,165.2	1,527.6	1,204.2	7,914.8	5,670.2	7,914.8	5,670.2
Delaware	2.0	2.0	31.9	32.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.1	46.4	72.3	62.4	104.2	94.6	104.2	94.6
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	12.0	0.0	0.0	23.0	12.0	44.0	31.8	44.0	31.8	44.0	31.8
Florida	0.0	0.0	1,109.9	382.6	0.0	0.0	54.5	54.5	1,296.8	1,290.2	0.0	0.0	2,461.2	1,727.3	235.1	164.0	1,345.0	546.6	1,345.0	546.6
Georgia	0.0	0.0	1,010.9	968.1	0.0	0.0	2,047.2	2,047.2	901.9	898.4	0.0	0.0	3,960.0	3,913.7	NM	129.4	NM	1,097.5	NM	1,097.5
Maryland	190.0	190.0	227.0	165.1	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,149.0	1,087.1	672.0	557.3	899.0	722.4	899.0	722.4
North Carolina	208.0	208.0	3,376.8	2,773.0	0.0	0.0	2,002.0	2,002.0	568.3	564.1	0.0	0.0	6,155.1	5,547.1	124.8	121.3	3,501.6	2,894.3	3,501.6	2,894.3
South Carolina	0.0	0.0	278.0	38.1	0.0	0.0	1,328.7	1,361.6	531.0	530.8	0.0	0.0	2,137.7	1,930.5	160.6	93.4	438.6	131.5	438.6	131.5
Virginia	0.0	0.0	352.7	106.9	0.0	0.0	866.0	866.0	892.4	892.4	0.0	0.0	2,111.1	1,865.3	55.1	39.4	407.8	146.3	407.8	146.3
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	340.8	349.5	0.0	0.0	0.0	0.0	1,027.1	1,035.8	6.1	5.1	6.1	5.1	6.1	5.1
East South Central	29.1	29.1	455.5	224.5	0.0	0.0	7,056.3	6,953.2	1,229.0	1,271.6	0.0	0.0	8,769.9	8,478.4	89.0	81.8	544.5	306.3	544.5	306.3
Alabama	0.0	0.0	179.3	85.6	0.0	0.0	3,290.8	3,270.2	685.9	728.5	0.0	0.0	4,156.0	4,084.3	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.3	10.0	0.0	0.0	1,146.9	1,064.4	72.2	72.2	0.0	0.0	1,245.4	1,146.6	20.4	16.9	46.7	26.9	46.7	26.9
Mississippi	0.0	0.0	160.6	58.6	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	435.3	333.3	7.0	6.3	167.6	64.9	167.6	64.9
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	55.5	53.8	144.8	124.1	144.8	124.1
West South Central	30,274.7	27,531.8	1,756.4	1,008.3	0.0	0.0	2,987.5	2,990.3	1,311.4	1,325.2	0.0	0.0	36,330.0	32,855.6	691.9	543.2	2,448.3	1,551.5	2,448.3	1,551.5
Arkansas	0.0	0.0	100.0	13.0	0.0	0.0	1,263.9	1,266.7	330.4	330.4	0.0	0.0	1,694.3	1,610.1	11.5	6.3	111.5	19.3	111.5	19.3
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	135.8	123.2	136.9	123.2	136.9	123.2
Oklahoma	7,494.8	6,644.1	30.5	20.5	0.0	0.0	861.6	861.6	76.2	76.2	0.0	0.0	8,463.1	7,602.4	6.3	3.3	36.8	23.8	36.8	23.8
Texas	22,779.9	20,887.7	1,624.8	974.8	0.0	0.0	670.0	670.0	414.7	428.5	0.0	0.0	25,489.4	22,961.0	538.3	410.4	2,163.1	1,385.2	2,163.1	1,385.2
Mountain	8,834.5	8,404.5	5,607.4	5,204.2	473.9	473.9	10,574.4	10,562.8	174.3	174.5	580.3	543.3	26,244.8	25,363.2	2,150.7	1,719.8	7,758.1	6,924.0	8,232.0	7,397.9
Arizona	267.3	267.3	1,776.5	1,679.7	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,090.8	4,994.0	1,171.3	912.2	2,947.8	2,591.9	3,243.2	2,887.3
Colorado	3,103.2	3,026.1	464.8	420.0	0.0	0.0	687.4	687.4	28.7	28.7	0.0	0.0	4,284.1	4,162.2	342.0	310.0	806.8	730.0	806.8	730.0
Idaho	970.5	970.5	240.0	240.0	0.0	0.0	2,707.5	2,708.9	83.9	83.9	10.0	10.0	4,011.9	4,013.3	19.1	9.4	259.1	249.4	259.1	249.4
Montana	703.5	678.5	17.0	8.0	0.0	0.0	2,747.8	2,747.8	3.0	3.0	0.0	0.0	3,471.3	3,437.3	12.1	9.3	29.1	17.3	29.1	17.3
Nevada	150.0	150.0	1,707.7	1,495.0	178.5	178.5	1,051.4	1,051.4	9.8	9.8	495.7	458.7	3,593.1	3,343.4	255.5	217.2	1,963.2	1,712.2	2,141.7	1,890.7
New Mexico	1,764.5	1,436.6	544.3	504.4	0.0	0.0	82.9	82.9	5.4	5.6	1.6	1.6	2,398.7	2,031.1	132.0	100.1	676.3	604.5	676.3	604.5
Utah	388.2	388.2	857.1	857.1	0.0	0.0	269.4	256.4	12.8	12.8	73.0	73.0	1,600.5	1,587.5	214.9	158.9	1,072.0	1,016.0	1,072.0	1,016.0
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	NM	2.7	NM	2.7	NM	2.7
Pacific Contiguous	12,093.0	11,941.7	10,173.8	8,947.4	1,284.0	1,284.0	39,854.7	39,917.1	1,955.9	2,042.3	1,873.5	1,869.3	67,234.9	66,001.8	7,516.2	6,124.2	17,690.0	15,071.6	18,974.0	16,355.6
California	5,809.7	5,658.4	9,921.2	8,847.0	1,284.0	1,284.0	10,198.0	10,197.7	1,230.5	1,323.2	1,854.0	1,849.8	30,297.4	29,160.1	7,257.1	5,909.5	17,178.3	14,756.5	18,462.3	16,040.5
Oregon	3,210.2	3,210.2	252.1	99.9	0.0	0.0	8,423.2	8,423.2	314.7	308.4	19.5	19.5	12,219.7	12,061.2	146.5	127.5	398.6	227.4	398.6	227.4
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,233.5	21,296.2	410.7	410.7	0.0	0.0	24,717.8	24,780.5	112.6	87.2	113.1	87.7	113.1	87.7
Pacific Noncontiguous	266.2	266.2	101.2	98.3	0.0	0.0	496.5	496.3	274.7	224.3	43.0	43.0	1,181.6	1,128.1	595.8	553.7	697.0	652.0	697.0	652.0
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.6	470.4	7.0	7.0	0.0	0.0	538.2	538.0	2.6	1.7	2.6	1.7	2.6	1.7
Hawaii	205.6	205.6	101.2	98.3	0.0	0.0	25.9	25.9	267.7	217.3	43.0	43.0	643.4	590.1	593.2	552.0	694.4	650.3	694.4	650.3
U.S. Total	88,729.3	83,452.2	27,356.6	22,151.3	1,757.9	1,757.9	79,942.2	79,921.1	13,947.9	14,158.8	2,496.8	2,455.6	214,230.7	203,896.9	17,959.6	14,543.5	45,316.2	36,694.8	47,074.1	38,452.7

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, June 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	
	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017	June 2018	June 2017
New England	13,404.6	12,074.9	1,212.8	1,088.9	1,605.7	1,051.7	917.3	917.3	0.0	0.0	5,708.5	6,156.0	0.0	0.0	22,848.9	21,288.8
Connecticut	3,147.1	2,576.5	567.6	467.3	872.4	424.6	383.4	383.4	0.0	0.0	2,035.1	2,483.0	0.0	0.0	7,005.6	6,334.8
Maine	1,250.0	1,250.0	301.1	297.1	108.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,540.5	2,442.5
Massachusetts	5,989.3	5,230.2	333.5	320.7	199.7	200.0	0.0	0.0	0.0	0.0	2,588.4	2,581.1	0.0	0.0	9,110.9	8,332.0
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	6.8	0.0	24.9	12.4	0.0	0.0	0.0	0.0	12.2	16.0	0.0	0.0	1,831.1	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	29,099.4	26,323.4	7,801.4	7,712.9	14,674.0	13,681.6	13,530.2	14,985.2	78.6	78.6	5,406.5	5,380.4	129.2	125.2	70,719.3	68,287.3
New Jersey	8,519.5	8,118.9	2,964.0	2,857.3	42.6	493.2	609.0	613.0	11.6	11.6	234.0	222.2	23.4	23.4	12,404.1	12,339.6
New York	8,896.8	8,125.3	3,157.1	3,176.1	9,688.5	9,677.3	1,640.2	1,640.2	0.0	0.0	3,563.8	3,547.3	0.0	0.0	26,946.4	26,166.2
Pennsylvania	11,683.1	10,079.2	1,680.3	1,679.5	4,942.9	3,511.1	11,281.0	12,732.0	67.0	67.0	1,608.7	1,610.9	105.8	101.8	31,368.8	29,781.5
East North Central	20,747.0	17,268.5	26,540.1	26,465.8	4,208.5	3,906.3	56,679.3	61,604.1	247.6	247.6	2,474.5	2,651.8	1,092.9	1,165.9	111,989.9	113,310.0
Illinois	3,580.2	3,580.2	10,388.3	10,313.3	288.9	290.9	13,966.0	14,015.1	0.0	0.0	674.2	677.2	36.5	114.5	28,934.1	28,991.2
Indiana	3,807.0	2,406.0	3,355.8	3,363.2	729.1	725.9	15,281.4	15,773.8	0.0	0.0	99.8	237.8	619.3	614.3	23,892.4	23,121.0
Michigan	4,421.0	4,421.6	3,977.6	3,977.7	2,389.6	2,134.7	9,216.7	9,414.2	47.2	47.2	488.4	492.4	250.0	250.0	20,790.5	20,737.8
Ohio	6,188.0	4,117.8	5,446.1	5,431.7	189.2	157.3	12,274.4	15,263.6	142.0	142.0	609.7	640.0	187.1	187.1	25,036.5	25,939.5
Wisconsin	2,750.8	2,742.9	3,372.3	3,379.9	611.7	597.5	5,940.8	7,137.4	58.4	58.4	602.4	604.4	0.0	0.0	13,336.4	14,520.5
West North Central	6,633.1	6,641.9	11,730.9	11,566.8	4,351.2	4,189.8	34,116.0	34,582.9	32.0	32.0	3,873.8	3,932.4	8.4	8.4	60,745.4	60,954.2
Iowa	1,772.6	1,774.7	1,258.2	1,301.0	420.5	497.9	5,497.9	5,548.8	32.0	32.0	820.7	850.2	0.0	0.0	9,801.9	10,004.6
Kansas	266.0	266.0	2,148.3	2,154.0	2,096.7	2,111.0	4,714.2	4,714.2	0.0	0.0	556.6	548.0	0.0	0.0	9,781.8	9,793.2
Minnesota	2,172.0	2,172.0	2,671.4	2,437.9	361.1	375.1	4,309.4	4,309.4	0.0	0.0	787.1	793.9	0.0	0.0	10,301.0	10,088.3
Missouri	1,789.9	1,796.6	3,399.6	3,420.5	836.1	501.0	11,260.8	11,683.9	0.0	0.0	1,100.5	1,134.2	0.0	0.0	18,386.9	18,536.2
Nebraska	342.6	342.6	1,150.8	1,150.8	516.5	584.5	3,817.3	3,817.3	0.0	0.0	321.2	320.3	0.0	0.0	6,148.4	6,215.5
North Dakota	0.0	0.0	408.0	408.0	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	4,624.6
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	55,134.9	52,646.5	32,061.6	32,323.1	7,307.0	7,237.9	54,811.3	56,870.7	83.8	83.8	10,408.0	10,461.6	135.0	135.0	159,941.6	159,758.6
Delaware	1,512.0	1,512.0	317.2	315.2	843.1	843.2	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,331.4	3,329.5
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,953.7	27,444.7	7,890.1	8,520.3	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	51,922.4	53,289.3
Georgia	7,963.9	7,963.9	7,787.2	7,787.2	832.9	796.4	9,360.5	9,360.5	83.8	83.8	945.4	946.6	0.0	0.0	26,973.7	26,938.4
Maryland	2,169.6	976.0	1,965.6	1,966.2	1,414.2	1,414.2	4,327.0	4,712.0	0.0	0.0	1,219.9	1,218.9	0.0	0.0	11,096.3	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	3,152.0	2,399.0	2,763.8	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	463.4	0.0	0.0	12,137.2	11,422.3
Virginia	7,658.9	7,626.1	4,194.3	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	19,046.0	18,714.6
West Virginia	0.0	0.0	1,089.3	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	13,781.3	14,163.3
East South Central	21,684.2	20,197.9	12,633.9	13,002.4	5,354.0	5,371.9	25,015.2	26,980.5	0.0	0.0	133.0	142.0	19.8	19.8	64,840.1	65,714.5
Alabama	9,618.4	9,441.4	2,532.2	2,532.2	2,791.3	1,941.4	5,503.1	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,507.4	20,260.8
Kentucky	1,763.0	1,763.0	4,976.6	4,976.6	260.0	260.0	11,862.8	11,862.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	18,874.3
Mississippi	7,847.7	7,590.5	1,344.6	1,718.9	2,236.5	3,104.3	1,804.0	1,820.0	0.0	0.0	35.3	44.3	0.0	0.0	13,268.1	14,278.0
Tennessee	2,455.1	1,403.0	3,780.5	3,774.7	66.2	66.2	5,845.3	7,014.3	0.0	0.0	43.2	43.2	0.0	0.0	12,190.3	12,301.4
West South Central	60,415.1	60,182.9	13,977.4	13,423.6	31,660.5	31,730.3	31,593.2	36,423.7	957.9	955.7	174.8	181.3	655.3	655.3	139,434.2	143,552.8
Arkansas	4,566.0	4,620.5	702.8	702.8	802.0	793.7	5,110.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,193.0	11,245.2
Louisiana	7,537.0	7,552.8	2,357.9	2,372.8	6,528.4	6,573.9	2,832.6	2,852.9	894.1	891.9	43.3	45.5	407.4	407.4	20,600.7	20,697.2
Oklahoma	7,247.6	6,783.7	1,684.9	1,287.9	5,235.5	5,164.9	4,334.6	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,577.0	18,176.7
Texas	41,064.5	41,225.9	9,231.8	9,060.1	19,094.6	19,197.8	19,316.0	23,589.0	63.8	63.8	44.9	49.2	247.9	247.9	89,063.5	93,433.7
Mountain	22,513.8	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	62,321.3	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	5,445.0	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	7,821.6	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	26,032.3	25,991.3	11,550.4	11,790.3	7,768.1	8,877.0	1,982.0	1,982.0	17.0	17.0	470.9	485.3	221.4	229.3	48,042.1	49,372.2
California	20,003.8	19,962.8	10,697.2	10,937.1	7,512.1	8,621.0	57.0	57.0	17.0	17.0	455.7	470.1	221.4	229.3	38,964.2	40,294.3
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	2,653.6	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	4,759.8
Pacific Noncontiguous	479.2	479.2	626.3	626.3	175.0	175.0	332.8	333.8	0.0	0.0	2,600.2	2,595.9	6.4	6.4	4,219.9	4,216.6
Alaska	479.2	479.2	626.3	626.3	175.0	175.0	152.8	153.8	0.0	0.0	728.3	725.1	0.0	0.0	2,161.6	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	256,143.6	244,290.3	126,773.7	126,659.1	80,767.9	79,563.4	245,966.3	263,047.8	1,468.9	1,466.7	31,606.5	32,357.5	2,375.8	2,456.9	745,102.7	749,841.7

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
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC
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
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
2018	4	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	321.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV
2018	4	61124	Great Valley Solar Portfolio Holdings, LLC	IPP	Great Valley Solar Portfolio Holdings, LLC	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61417	Lavio Solar, LLC	IPP	Lavio Solar	CA	61792	5002	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV
2018	4	61156	NMRD Data Center, LLC	IPP	Facebook 3 Solar Energy Center	NM	61558	FB3	10.0	Solar Photovoltaic	SUN	PV
2018	4	61169	New Germany Solar I LLC	IPP	New Germany Community Solar Garden	MN	61571	39062	1.0	Solar Photovoltaic	SUN	PV
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
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
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
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
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	BA1	10.0	Batteries	MWH	BA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	PCEC	20.0	Solar Photovoltaic	SUN	PV
2018	4	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN3	6.0	Wood/Wood Waste Biomass	WDS	ST
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
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
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
2018	4	61418	Stage Gulch Solar, LLC	IPP	Stage Gulch Solar	CA	61791	5001	0.8	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV
2018	4	61172	Zumbro Solar LLC	IPP	Zumbro Community Solar Garden	MN	61574	38674	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV2	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Quincy II Solar Garden	CO	61752	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV01	1.0	Batteries	MWH	BA
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV1W	4.5	Batteries	MWH	BA
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT10	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT9	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT

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	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC
2018	5	61442	Dignity - Siena Campus	IPP	Dignity - Siena Campus	NV	61825	PV1	1.4	Solar Photovoltaic	SUN	PV
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	61303	Grimm CSG LLC	IPP	Grimm Community Solar	MN	61689	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Raritan Solar - 53 Highway	NJ	61601	RARIT	8.4	Solar Photovoltaic	SUN	PV
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA
2018	5	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV
2018	5	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV
2018	5	60653	Stafford St Solar 2, LLC	IPP	Stafford St 2 Community Solar	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV
2018	5	61210	Stenner Creek Solar LLC	Commercial	Stenner Creek Solar	CA	61607	CPOLY	4.5	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	5	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV
2018	6	61187	DG Minnesota CSG, LLC	IPP	Big Lake Project	MN	61817	BIGLA	5.0	Solar Photovoltaic	SUN	PV
2018	6	61435	EGP Stillwater Solar PV II, LLC	IPP	EGP Stillwater Solar PV II, LLC	NV	61809	STWII	20.0	Solar Photovoltaic	SUN	PV
2018	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC
2018	6	61409	Heyer CSG LLC	IPP	Heyer CSG	MN	61793	HEYER	1.0	Solar Photovoltaic	SUN	PV
2018	6	57389	IKEA Property Inc	Commercial	IKEA Oak Creek Rooftop PV System	WI	61816	PV1	1.2	Solar Photovoltaic	SUN	PV
2018	6	49893	Invenergy Services LLC	IPP	Bishop Hill III	IL	61787	BHIII	119.0	Onshore Wind Turbine	WND	WT
2018	6	61369	Kimball Wind, LLC	Electric Utility	Kimball Wind	NE	56106	KIM01	30.0	Onshore Wind Turbine	WND	WT
2018	6	58822	MC Power Companies Inc	IPP	El Dorado Springs Solar Farm	MO	61566	EDSF1	2.5	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	1	4.1	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	2	4.4	Solar Photovoltaic	SUN	PV
2018	6	61211	Montgomery County Solar	Commercial	Montgomery County Solar	MD	61608	1	1.9	Solar Photovoltaic	SUN	PV
2018	6	56990	NJR Clean Energy Ventures Corporation	IPP	New Road Solar, LLC	NJ	61599	NEWRD	10.0	Solar Photovoltaic	SUN	PV
2018	6	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	328.0	Natural Gas Fired Combined Cycle	NG	CT
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	196.5	Natural Gas Fired Combined Cycle	NG	CA
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA
2018	6	61285	RJC II CSG LLC	IPP	RJC II Community Solar Garden	MN	61670	RJCII	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	6	61443	Solar Star RPUWD, LLC	IPP	RPUWD Scheuer Well Solar PV Project	CA	61824	RPU2	3.0	Solar Photovoltaic	SUN	PV
2018	6	61376	SunSelect 1	Industrial	SunSelect1	CA	61754	1	2.0	Natural Gas Internal Combustion Engine	NG	IC
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	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	6	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	6	61277	Vista Energy Storage, LLC	IPP	Vista Energy Storage System	CA	61661	VISTA	40.0	Batteries	MWH	BA

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 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
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	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	57017	DOE National Renewable Energy Laboratory	Commercial	DOE Golden NWTC Turbine Side	CO	57693	ALSTO	3.0	Onshore Wind Turbine	WND	WT
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	3	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	4	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	7	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	8	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	1	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	2	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	3	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	4	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	5	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	6	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	7	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	8	2.9	Conventional Hydroelectric	WAT	HY
2018	5	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	5	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	57400	Evergreen Community Power, LLC	Industrial	Evergreen Community Power	PA	58023	ECP	25.0	Wood/Wood Waste Biomass	WDS	ST
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	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	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

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	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	12685	Entergy Mississippi Inc	Electric Utility	Baxter Wilson	MS	2050	2	530.7	Natural Gas Steam Turbine	NG	ST
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Rex Brown	MS	2053	3	29.3	Natural Gas Steam Turbine	NG	ST
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	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
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	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	7	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	7	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	7	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	7	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	7	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	7	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	7	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	7	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	7	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	7	60146	Ameresco Federal Solutions	IPP	Fort Bliss (DEA EPIC)	TX	61887	DEPIC	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	7	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	7	1015	Austin Energy	Electric Utility	Kingsberry Energy Storage System	TX	61741	KBESS	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2018	7	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	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC1	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(OT) Other	9.3
2018	7	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	7	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	7	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	7	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	7	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	7	61060	Cypress Creek Renewables	IPP	Old Caroleen Solar Farm	NC	61534	GEN1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	7	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Piqua Staunton	OH	61805	AMPPS	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	7	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Smyrna	DE	61800	AMPSM	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2018	7	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	7	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	7	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	7	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	7	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	7	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	7	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	7	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	7	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(OT) Other	200.0
2018	7	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	7	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	7	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	7	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	121.5
2018	7	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	2	1.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	1.0
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	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	7	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	7	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	7	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	7	11161	Loma Linda University	Commercial	Loma Linda University Cogen	CA	10206	GEN5	1.0	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	61383	MN Solar Community, LLC	IPP	Sherburne North Project	MN	61762	SHERB	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	7	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	7	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	7	61461	Mustang Solar LLC	IPP	Mustang Solar	NC	61533	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	7	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	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	54.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2018	7	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	233.7
2018	7	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	7	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	7	60996	OEE XXV LLC	Industrial	Valflim Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	7	60996	OEE XXV LLC	Industrial	Valflim Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	7	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	7	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	7	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	7	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	359.6
2018	7	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	235.5
2018	7	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	235.5
2018	7	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	7	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	7	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	7	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	7	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	7	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2018	7	61284	Scandia CSG LLC	IPP	Scandia Community Solar Garden	MN	61669	SCAND	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2018	7	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	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	61188	West Texas A&M University	Commercial	UL Advanced Wind Turbine Test Facility	TX	61589	UT-1	3.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.4
2018	8	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV06	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	8	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	8	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.0
2018	8	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	8	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	8	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	8	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	8	61410	Broad Street Fuel Cell, LLC	IPP	Trinity College Fuel Cell	CT	61786	MB-22	1.4	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	1.4
2018	8	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	8	60609	Clean Focus Renewables, Inc.	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	8	61060	Cypress Creek Renewables	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	8	61060	Cypress Creek Renewables	IPP	West Moore Solar II	TX	61625	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	1.3
2018	8	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	8	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	8	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	8	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	8	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	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	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	8	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2018	8	61209	NC 102 Project LLC	IPP	NC 102 Project LLC	NC	61610	NC102	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	8	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	8	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	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV2	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	8	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	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	Estrella Mountain PV	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	8	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(OT) Other	3.0
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	8	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	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	79.8
2018	9	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	9	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	9	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	9	61260	Capricornus Community Solar Garden, LLC	IPP	Capricornus Community Solar Garden	MN	61651	CAPR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Aurora County Wind	SD	61745	ACSD	20.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Brule County Wind	SD	61746	BCSD	20.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	20.0
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	61060	Cypress Creek Renewables	IPP	Staunton	IN	61885	GEN1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	9	61060	Cypress Creek Renewables	IPP	Sterling Solar (TX)	TX	61871	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
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
2018	9	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	9	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	9	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	9	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	9	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	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	12199	Montana-Dakota Utilities Co	Electric Utility	Thunder Spirit Wind, LLC	ND	58965	2	48.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	48.0
2018	9	61487	Montevideo Solar LLC	IPP	Montevideo Solar LLC	MN	61870	MONTE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	56990	NJR Clean Energy Ventures Corporation	IPP	Springfield Solar Project	NJ	61907	NJLND	7.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	7.5
2018	9	61348	PCS Energy, LLC	Industrial	Aerolease	CA	61718	APLEX	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	9	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2018	9	56545	Pattern Operators LP	IPP	Stillwater Wind, LLC	MT	61858	WT	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2018	9	61495	Persimmon Creek Wind Farm 1, LLC	IPP	Persimmon Creek Wind Farm 1, LLC	OK	61876	PCWF1	198.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.6
2018	9	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	9	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	10.0
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	9	61441	Sun Farm VI, LLC	IPP	Sun Farm VI, LLC	NC	61842	PV1	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	9	18454	Tampa Electric Co	Electric Utility	Balm Solar	FL	61654	PV1	74.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	61514	Agilitas Energy, LLC	IPP	Blydenburgh Solar Project	NY	61900	BLYD	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	10	61514	Agilitas Energy, LLC	IPP	Lincoln Ave Solar Project	NY	61899	LINC	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	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	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
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	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	Bovine	TX	61867	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Bronson	TX	61868	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	10	61060	Cypress Creek Renewables	IPP	Cascade Solar (TX)	TX	61875	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Chisum	TX	61810	GEN1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Eddy II	TX	61874	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	10	61060	Cypress Creek Renewables	IPP	Yellow Jacket	TX	61873	GEN1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	10	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	10	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	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	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	61334	Libra Community Solar Garden, LLC	IPP	Libra Community Solar	MN	61709	LIBR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	61353	Philadelphia Authority for Industrial Development	IPP	Navy Yard Peaker Station	PA	61737	GEN4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.0
2018	10	61507	Plumsted 537 LLC	IPP	Plumsted 537 LLC	NJ	61892	PLMST	19.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	19.8
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	600.0
2018	10	61506	Stryker 22, L.L.C.	IPP	Stryker 22, L.L.C.	NJ	61891	EDGRD	19.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	19.8
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	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	3.3
2018	11	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(V) Under construction, more than 50 percent complete	58.2
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.9
2018	11	61060	Cypress Creek Renewables	IPP	Hopewell Friends	NC	61883	GEN1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
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	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	11	9234	Indiana Municipal Power Agency	Electric Utility	Rensselaer Solar Site 2	IN	61799	SREN2	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
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	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	1.5
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	(U) Under construction, less than or equal to 50 percent complete	1.2
2018	11	61414	Rattlesnake Creek Wind Project, LLC	IPP	Rattlesnake Creek Wind Project	NE	59292	RCWP	318.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	318.1
2018	11	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	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	61482	AES ES GILBERT, LLC	IPP	AES ES GILBERT	AZ	61861	SRP	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2018	12	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	12	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	12	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	12	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	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	61327	Arcturus Community Solar Garden, LLC	IPP	Arcturus Community Solar	MN	61705	ARCT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	61328	Auriga Community Solar Garden, LLC	IPP	Auriga Community Solar	MN	61706	AURI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	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	(V) Under construction, more than 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	61230	CD Arevon USA, Inc.	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	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	12	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	12	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	12	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	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
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	(U) Under construction, less than or equal to 50 percent complete	106.7
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYN	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYS	2.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	12	61060	Cypress Creek Renewables	IPP	Copperfield	NC	61882	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	61060	Cypress Creek Renewables	IPP	Lampwick	TX	61872	GEN1	7.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	7.5
2018	12	61060	Cypress Creek Renewables	IPP	Morning View	NC	61881	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Brewster	OH	61818	AMPBR	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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	6455	Duke Energy Florida, LLC	Electric Utility	Hamilton Solar Power Plant	FL	61807	PV1	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0

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	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	61404	Edenton Solar	IPP	Edenton Solar	NC	61781	EDE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	61413	Enel Green Power Diamond Vista Wind Project, LLC	IPP	Diamond Vista Wind Project, LLC	KS	61789	DV	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2018	12	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	12	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	12	56201	Engie North America	IPP	Live Oak Wind Project	TX	61782	WTGS	199.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	100.0
2018	12	59745	First Solar Asset Management	IPP	North Rosamond Solar LLC	CA	59879	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	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	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	61342	Leo Community Solar, LLC	IPP	Leo Community Solar	MN	61713	LEO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	(U) Under construction, less than or equal to 50 percent complete	200.4
2018	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	162.9
2018	12	61458	Minco Wind IV, LLC	IPP	Minco Wind IV, LLC	OK	61836	MIV	130.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	130.0
2018	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	220.0
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	13902	NorthWestern Energy	Electric Utility	Hauser	MT	2185	HAU7	3.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
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	(V) Under construction, more than 50 percent complete	53.0
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
2018	12	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	(TS) Construction complete, but not yet in commercial operation	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	61436	Titan Solar, LLC	IPP	Titan Solar	CO	61811	PCEC	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(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	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	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	61366	Woods Hill Solar, LLC	IPP	Woods Hill Solar	CT	61736	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2019	1	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
2019	1	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
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	61060	Cypress Creek Renewables	IPP	Bar D	CO	61886	GEN1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
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	(T) Regulatory approvals received. 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	(T) Regulatory approvals received. 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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	61365	Hilltopper Wind Project, LLC	IPP	Hilltopper Wind Project	IL	61735	WT1	185.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	185.0
2019	1	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
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	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA01	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA02	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	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	2	61259	Altair Community Solar Garden, LLC	IPP	Altair Community Solar Garden	MN	61645	ALTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	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
2019	2	61326	Aquila Community Solar Gardens, LLC	IPP	Aquila Community Solar	MN	61704	AQUI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61329	Canopus Community Solar Garden, LLC	IPP	Canopus Community Solar	MN	61707	CANO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61337	Cassiopeia Community Solar Garden, LLC	IPP	Cassiopeia Community Solar	MN	61711	CASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61467	Central CA Fuel Cell 2, LLC	IPP	Tulare WWTP BioMat Fuel Cell	CA	61846	MM27	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2019	2	61339	Deneb Community Solar Garden, LLC	IPP	Deneb Community Solar	MN	61715	DENE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	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 Hydroelectric	AL	61749	GEN1	4.0	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 Hydroelectric	AL	61749	GEN2	4.0	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 Hydroelectric	AL	61749	GEN3	4.0	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	61456	Hope Farm Solar, LLC	IPP	Hope Farm Solar, LLC	RI	61840	HOPE	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	3	9417	Interstate Power and Light Co	Electric Utility	English Farms	IA	61565	1	169.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	18	13.5	Petroleum Liquids	DFO	GT	(V) Under construction, more than 50 percent complete	15.4
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	19	0.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.8
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	220.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	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 SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	58519	Clean Energy Collective LLC	IPP	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	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	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
2019	4	60195	Groton Station Fuel Cell, 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	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	4	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	4	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
2019	4	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
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
2019	4	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	18.8
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	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
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	525.0
2019	5	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
2019	5	60195	Groton Station Fuel Cell, 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	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	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	5.4
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	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	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	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
2019	6	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
2019	6	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	6	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	593.3
2019	6	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
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	352.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	352.8
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	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	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	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	501	375.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	375.7
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	502	200.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.6
2019	6	61485	Rio Bravo Windpower, LLC	IPP	Rio Bravo Windpower, LLC	TX	61865	1	237.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	237.6
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	61492	StraightUp Solar	IPP	John A Logan College Solar	IL	61878	JALC	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
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	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM28	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM29	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61502	Sholes Wind Energy Center, LLC	IPP	Sholes Wind Energy Center	NE	61889	WSN1	160.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	160.0
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	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	8	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
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	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
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	61515	Phoebe Energy Project, LLC	IPP	Phoebe Solar	TX	61906	PHOEB	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	61465	Brush Solar Center	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.8
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	61473	Morgan Solar Center	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	61472	Vale Solar Center	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	11	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	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
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	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
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	61474	Baker City Solar	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
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

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	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
2019	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
2019	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
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	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
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	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	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	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	61422	Mason Dixon Solar Center, LLC	IPP	Mason Dixon Solar Center	MD	61797	PV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	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	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	12	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	12	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	12	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	12	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	12	61480	Ontario Solar Center	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	56545	Pattern Operators LP	IPP	Crazy Mountain Wind LLC	MT	61859	WT	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
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
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

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	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	61455	Scituate RI Solar, LLC	IPP	Scituate RI Solar, LLC	RI	61841	SCITU	10.0	Solar Photovoltaic	SUN	PV	(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	17650	Southern Power Co	IPP	Wildhorse Mountain Wind Facility	OK	61866	1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	225.0
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	61429	Harvest Wind Energy, LLC	IPP	Harvest Wind Energy Project	IN	61823	1	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
2020	1	61430	Summit Lake Wind, LLC	IPP	Summit Lake Wind Energy Project	MI	61812	1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
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 Energy, LLC	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 Energy, LLC	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	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	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
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	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
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	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	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
2020	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
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

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	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	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	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
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	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	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
2020	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
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	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
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	181.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	181.0
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	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
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	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
2021	4	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
2021	4	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
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	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
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	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
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	397.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	397.8
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	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
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	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	11	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
2021	11	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
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
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	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
2021	12	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
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	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
2022	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
2022	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
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	259.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	310.2
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	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	319.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2022	4	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
2022	4	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
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

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)
2022	12	59380	Enel Green Power NA, Inc.	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Sierra Energy Storage, LLC	CA	61803	10003	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
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	59380	Enel Green Power NA, Inc.	IPP	Kingston Energy Storage, LLC	CA	61802	10001	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. 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
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	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	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	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2018	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2018	9	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
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	58426	Sunshine Gas Producers LLC	IPP	Sunshine Gas Producers	CA	58429	3	4.0	Landfill Gas	LFG	GT
2018	10	58426	Sunshine Gas Producers LLC	IPP	Sunshine Gas Producers	CA	58429	4	4.0	Landfill Gas	LFG	GT
2018	10	58426	Sunshine Gas Producers LLC	IPP	Sunshine Gas Producers	CA	58429	5	4.0	Landfill Gas	LFG	GT
2018	10	56772	TX LFG Energy, LP	IPP	Coastal Plains	TX	55554	UNT2	1.7	Landfill Gas	LFG	IC
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	7	76.1	Conventional Steam Coal	SUB	ST
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	8	133.8	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	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	59173	City of Tulare Water Pollution Control	Commercial	City of Tulare Water Facility	CA	59395	C2550	0.4	Other Waste Biomass	OBG	IC
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	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
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	1	10.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	2	11.5	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	1	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	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	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	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	12	2.8	Petroleum Liquids	DFO	GT
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	13	2.9	Petroleum Liquids	DFO	GT
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	1752	Biola University	Commercial	Biola University	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	5	1752	Biola University	Commercial	Biola University	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	2	146.0	Conventional Steam Coal	BIT	ST
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	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	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	5	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
2019	10	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	GT1	14.0	Petroleum Liquids	DFO	GT
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN1	2.8	Landfill Gas	LFG	GT
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN2	2.8	Landfill Gas	LFG	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	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	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	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,000.4	Nuclear	NUC	ST
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

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	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	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN1	5.5	Natural Gas Steam Turbine	NG	ST
2020	12	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN2	5.5	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	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	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	750.0	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	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
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

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
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
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	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	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

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
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
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	428.0	Conventional Steam Coal	SUB	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
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
2026	12	56997	Marina Energy LLC	Industrial	L'Oreal Piscataway	NJ	57868	UNIT1	1.1	Solar Photovoltaic	SUN	PV
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-June 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
April	41.8%	48.1%	12.2%	8.1%	NA	12.5%	1.9%	NA
May	47.0%	52.8%	12.3%	16.6%	NA	9.1%	2.3%	NA
June	58.4%	61.9%	12.0%	17.7%	NA	15.0%	3.0%	NA

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

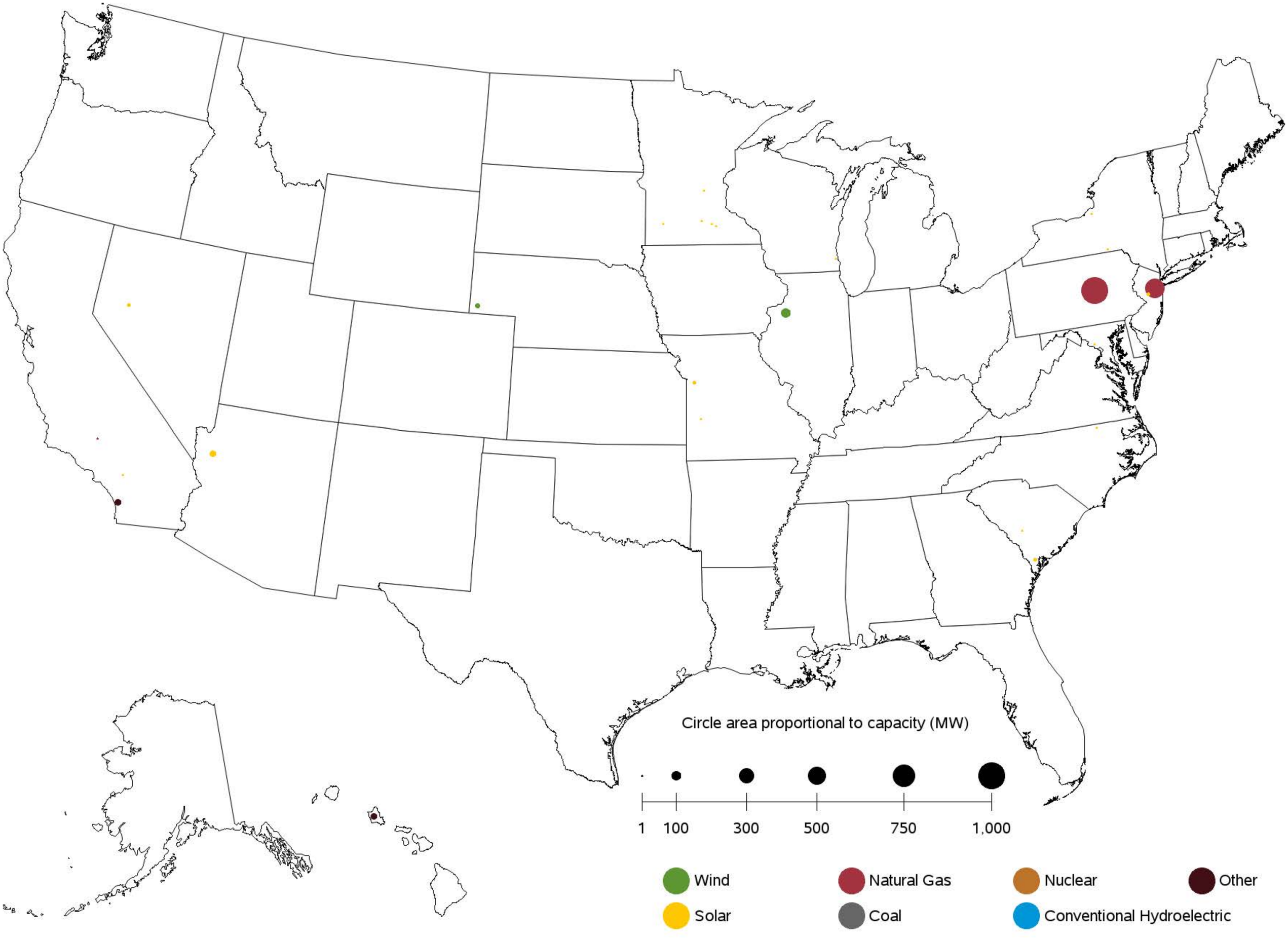
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-June 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%
April	82.4%	49.7%	44.9%	31.2%	24.4%	71.6%	43.9%	70.5%
May	90.8%	53.9%	38.6%	31.9%	33.0%	68.9%	48.4%	79.0%
June	97.1%	51.4%	41.8%	34.5%	41.7%	76.5%	54.4%	76.4%

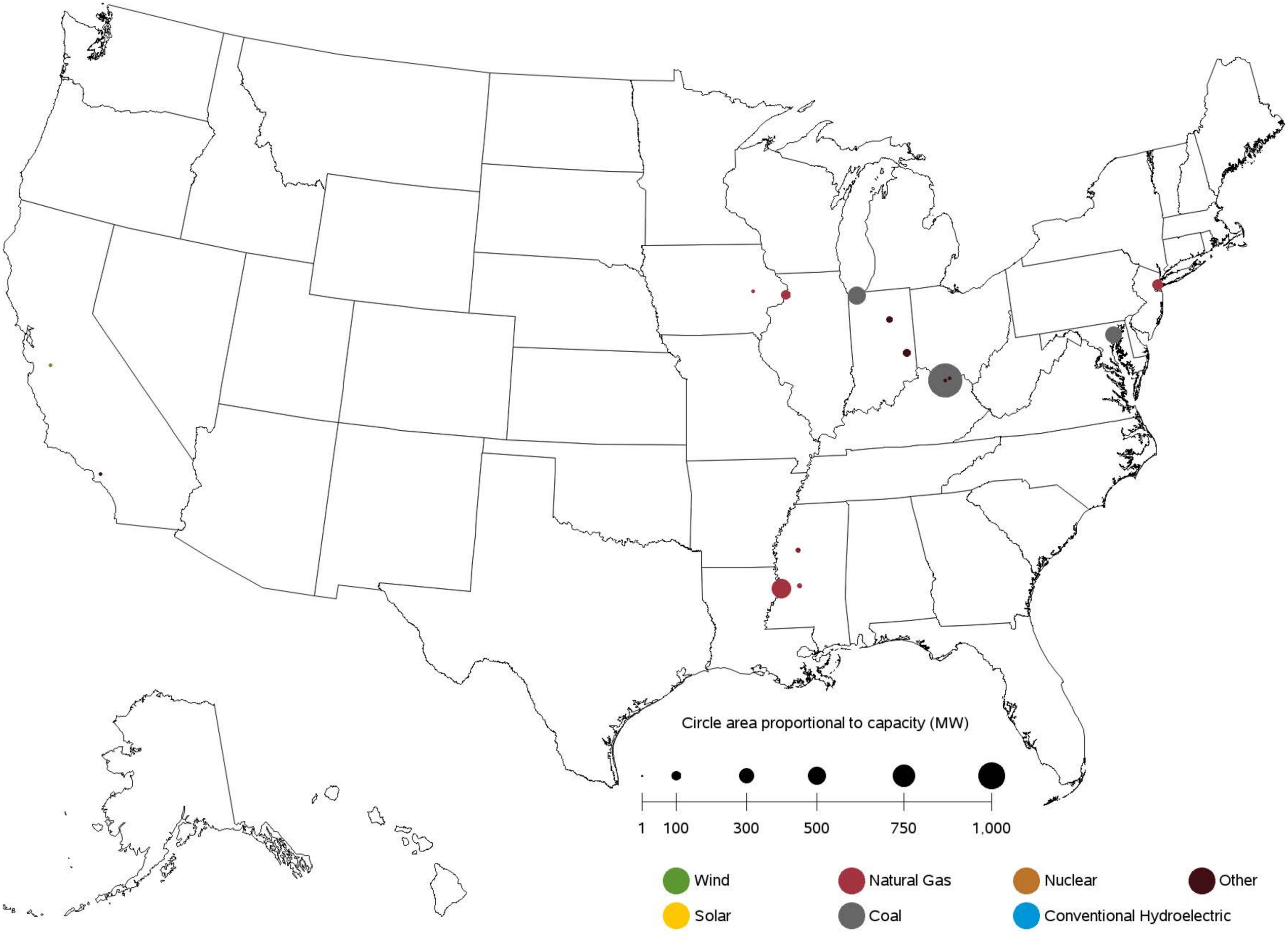
Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations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



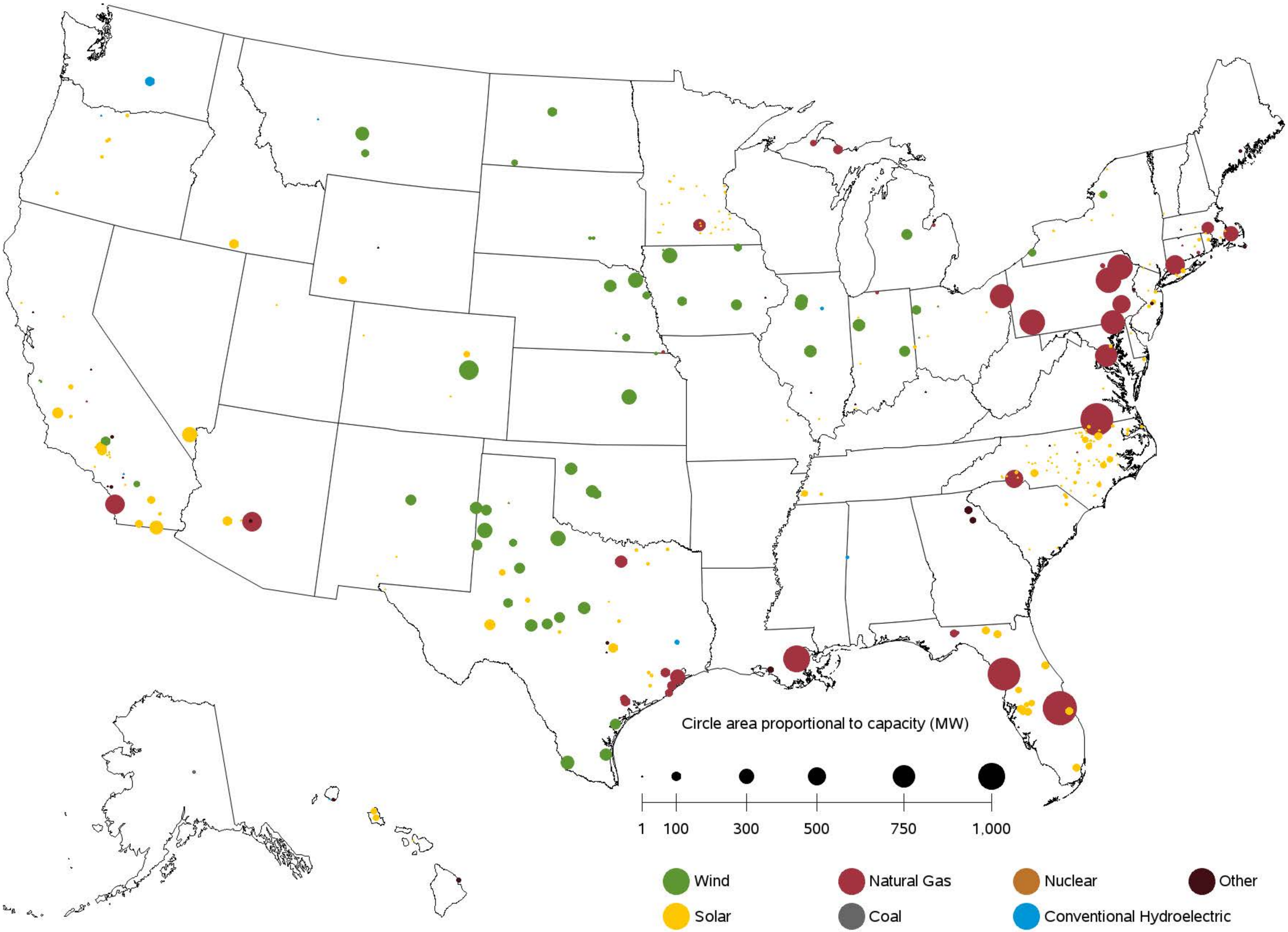
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from July 2018 to June 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 July 2018 to June 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	7,542,445	3,531,636	72,716,263	6,214,017	66,502,246
2017	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
Year 2016							
January	5,886,417	227,589	636,613	161,007	6,523,030	388,596	6,134,434
February	4,927,541	384,301	505,252	167,788	5,432,793	552,089	4,880,704
March	5,210,412	410,645	598,334	260,086	5,808,746	670,731	5,138,015
April	4,092,342	358,746	610,099	91,608	4,702,441	450,354	4,252,087
May	4,977,621	142,398	583,132	227,227	5,560,753	369,625	5,191,128
June	6,162,812	94,538	585,652	515,952	6,748,464	610,490	6,137,974
July	6,969,110	78,459	704,978	496,360	7,674,088	574,819	7,099,269
August	6,577,610	149,565	771,285	437,154	7,348,895	586,719	6,762,176
Sept	4,631,320	161,183	666,113	425,652	5,297,433	586,835	4,710,598
October	4,989,801	320,694	761,195	111,790	5,750,996	432,484	5,318,512
November	5,809,773	109,219	611,189	307,814	6,420,962	417,033	6,003,929
December	4,939,059	245,044	508,603	329,198	5,447,662	574,242	4,873,420
Year 2017							
January	6,345,401	172,909	673,166	310,843	7,018,567	483,752	6,534,815
February	5,120,144	359,401	552,254	330,610	5,672,398	690,011	4,982,387
March	5,612,473	663,648	410,568	334,509	6,023,041	998,157	5,024,884
April	5,262,194	619,414	299,908	486,903	5,562,102	1,106,317	4,455,785
May	4,912,110	341,657	171,906	489,911	5,084,016	831,568	4,252,448
June	5,637,814	242,997	355,162	568,400	5,992,976	811,397	5,181,579
July	5,328,084	65,828	585,167	642,440	5,913,251	708,268	5,204,983
August	5,874,172	63,435	634,751	709,103	6,508,923	772,538	5,736,385
Sept	4,715,752	139,000	512,536	553,042	5,228,288	692,042	4,536,246
October	3,504,501	165,550	447,906	544,420	3,952,407	709,970	3,242,437
November	3,379,626	263,999	550,385	558,909	3,930,011	822,908	3,107,103
December	4,217,049	214,960	581,888	528,915	4,798,937	743,875	4,055,062

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 - June 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
April	466	784	273	0	1,524
May	566	802	165	0	1,533
June	507	592	208	0	1,308
Year to Date					
2016	3,116	4,186	1,121	0	8,423
2017	3,017	4,044	1,058	0	8,118
2018	2,772	4,027	1,062	0	7,861
Rolling 12 Months Ending in June					
2017	6,425	8,426	2,188	0	17,040
2018	4,815	7,008	1,756	0	13,579

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 - June 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
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
Year to Date					
2016	520	773	162	0	1,455
2017	612	887	195	0	1,694
2018	568	938	203	0	1,709
Rolling 12 Months Ending in June					
2017	1,262	1,791	389	0	3,443
2018	963	1,596	336	0	2,896

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 - June 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
April	1,339,727	126,216	612	0	1,466,555
May	1,340,002	126,123	610	0	1,466,735
June	1,339,841	126,006	610	0	1,466,457
Rolling 12 Months Ending in June					
2017	1,335,643	127,176	625	0	1,463,443
2018	1,338,667	126,642	612	0	1,465,921

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 - June 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
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
June	21.24	22.46	19.23	--	21.47
Year to Date					
2016	16.68	18.46	14.49	--	17.27
2017	20.29	21.93	18.45	--	20.87
2018	20.49	23.30	19.12	--	21.74
Rolling 12 Months Ending in June					
2017	19.64	21.26	17.78	--	20.20
2018	20.01	22.78	19.14	--	21.32

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 8.5. Net Summer Capacity (MW) of Existing Utility Scale Units by Technology for Puerto Rico, 2007-June 2018

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,324	0	3,343	3	0	5,221
2008	454	98	1,324	0	4,087	3	0	5,966
2009	454	98	1,324	0	4,152	3	0	6,031
2010	454	98	1,324	0	4,152	3	0	6,031
2011	454	98	1,324	0	4,152	8	0	6,036
2012	454	98	1,324	0	4,152	25	98	6,152
2013	454	98	1,324	0	4,152	28	98	6,155
2014	454	98	1,324	0	4,152	40	99	6,167
2015	454	98	1,324	9	4,156	72	99	6,212
2016	454	98	1,324	33	4,156	147	99	6,311
2017	454	98	1,324	33	4,156	147	99	6,311
Year 2018								
January	454	98	1,324	33	4,131	142	99	6,282
February	454	98	1,324	33	4,131	142	99	6,282
March	454	98	1,324	33	4,131	145	99	6,284
April	454	98	1,324	33	4,156	145	99	6,309
May	454	98	1,324	33	4,156	145	99	6,309
June	454	98	1,324	33	4,156	145	99	6,309

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**12**	**7**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	6	0	1	0	0	37
Maine	58	72	0	15	0	0	10
Massachusetts	0	41	0	4	0	0	22
New Hampshire	0	38	0	0	0	0	19
Rhode Island	0	214	0	9	0	0	0
Vermont	0	129	0	0	0	0	17
Middle Atlantic	**3**	**16**	**53**	**1**	**11**	**0**	**2**
New Jersey	0	21	0	2	0	0	0
New York	0	28	0	2	0	0	1
Pennsylvania	3	12	103	1	14	0	12
East North Central	**1**	**6**	**8**	**1**	**4**	**0**	**12**
Illinois	0	19	0	5	0	0	31
Indiana	1	3	0	2	7	0	25
Michigan	3	7	0	2	0	0	24
Ohio	2	15	76	1	10	0	23
Wisconsin	1	17	0	4	0	0	18
West North Central	**1**	**5**	**0**	**4**	**0**	**0**	**9**
Iowa	1	10	0	3	0	0	30
Kansas	2	5	0	17	0	0	0
Minnesota	5	16	0	7	0	0	26
Missouri	0	5	0	5	0	0	16
Nebraska	4	63	0	33	0	0	24
North Dakota	0	7	0	29	0	0	21
South Dakota	0	33	0	33	0	0	15
South Atlantic	**0**	**3**	**7**	**1**	**0**	**0**	**7**
Delaware	0	41	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	8	0	1	0	0	40
Georgia	0	38	59	3	0	0	11
Maryland	0	20	0	3	0	0	2
North Carolina	0	7	0	2	0	0	9
South Carolina	0	16	0	3	0	0	15
Virginia	6	2	0	2	0	0	18
West Virginia	1	0	0	14	0	0	17
East South Central	**0**	**11**	**0**	**1**	**0**	**0**	**5**
Alabama	0	48	0	2	0	0	6
Kentucky	0	4	0	2	0	0	10
Mississippi	0	7	0	2	0	0	0
Tennessee	0	0	0	3	0	0	7
West South Central	**0**	**13**	**1**	**1**	**3**	**0**	**7**
Arkansas	0	17	0	5	0	0	10
Louisiana	0	45	0	2	7	0	15
Oklahoma	0	2	0	2	0	0	11
Texas	0	20	35	1	2	0	17
Mountain	**1**	**3**	**0**	**1**	**3**	**0**	**5**
Arizona	0	2	0	1	0	0	5
Colorado	0	12	0	2	0	0	20
Idaho	119	0	0	13	0	0	10
Montana	9	7	0	33	0	0	10
Nevada	0	0	0	1	0	0	2
New Mexico	0	39	0	3	0	0	76
Utah	0	1	0	4	0	0	35
Wyoming	4	0	0	9	3	0	30
Pacific Contiguous	**0**	**10**	**0**	**1**	**1**	**0**	**2**
California	0	8	0	1	2	0	6
Oregon	0	0	0	3	0	0	4
Washington	0	31	0	6	0	0	1
Pacific Noncontiguous	**18**	**1**	**0**	**19**	**0**	**0**	**22**
Alaska	59	3	0	19	0	0	23
Hawaii	0	1	0	0	0	0	49
U.S. Total	**0**	**1**	**3**	**1**	**3**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, June 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**	**7**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	29	12	0	0	1
Maine	0	0	0	97	8	0	0	6
Massachusetts	0	0	0	8	6	0	1	3
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	48	11	0	0	8
Vermont	0	0	0	24	18	0	0	12
Middle Atlantic	**0**	**0**	**0**	**7**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	15	7	0	2	1
Pennsylvania	0	0	0	26	9	0	0	1
East North Central	**0**	**0**	**0**	**10**	**5**	**0**	**3**	**0**
Illinois	0	0	0	27	7	0	0	1
Indiana	0	0	0	14	9	0	0	1
Michigan	0	0	0	23	8	0	7	1
Ohio	0	0	0	24	8	0	0	1
Wisconsin	0	0	0	48	10	0	55	1
West North Central	**0**	**0**	**0**	**8**	**5**	**0**	**4**	**1**
Iowa	0	0	0	82	7	0	0	2
Kansas	0	0	0	98	2	0	0	2
Minnesota	0	0	0	8	7	0	4	3
Missouri	0	0	0	28	8	0	0	1
Nebraska	0	0	0	52	11	0	0	3
North Dakota	0	0	0	0	9	0	27	2
South Dakota	0	0	0	228	19	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	34	24	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	3	2	0	1	1
Georgia	0	0	0	6	3	0	20	1
Maryland	0	0	0	12	10	0	0	1
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	12	4	0	0	1
Virginia	0	0	0	10	6	0	0	1
West Virginia	0	0	0	0	18	0	0	1
East South Central	**0**	**0**	**0**	**8**	**2**	**0**	**11**	**0**
Alabama	0	0	0	13	3	0	0	1
Kentucky	0	0	0	38	12	0	0	1
Mississippi	0	0	0	4	3	0	0	2
Tennessee	0	0	0	22	7	0	113	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	7	4	0	65	1
Louisiana	0	0	0	218	3	0	2	1
Oklahoma	0	0	0	41	2	0	0	1
Texas	0	0	0	3	1	0	7	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	3	0	0	1
Idaho	0	19	0	11	11	0	0	7
Montana	0	0	0	55	18	0	0	6
Nevada	0	5	0	3	3	0	0	1
New Mexico	0	0	0	8	3	0	0	2
Utah	0	8	0	7	5	0	0	1
Wyoming	0	0	0	0	14	0	0	4
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	12	0	12	6	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**11**	**0**	**17**	**9**	**0**	**0**	**5**
Alaska	0	0	0	0	48	0	0	13
Hawaii	0	11	0	17	9	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**2**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**12**	**7**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	6	0	1	0	0	37
Maine	58	72	0	15	0	0	10
Massachusetts	0	41	0	4	0	0	22
New Hampshire	0	38	0	0	0	0	19
Rhode Island	0	214	0	9	0	0	0
Vermont	0	129	0	0	0	0	17
Middle Atlantic	**3**	**16**	**53**	**1**	**11**	**0**	**2**
New Jersey	0	21	0	2	0	0	0
New York	0	28	0	2	0	0	1
Pennsylvania	3	12	103	1	14	0	12
East North Central	**1**	**6**	**8**	**1**	**4**	**0**	**12**
Illinois	0	19	0	5	0	0	31
Indiana	1	3	0	2	7	0	25
Michigan	3	7	0	2	0	0	24
Ohio	2	15	76	1	10	0	23
Wisconsin	1	17	0	4	0	0	18
West North Central	**1**	**5**	**0**	**4**	**0**	**0**	**9**
Iowa	1	10	0	3	0	0	30
Kansas	2	5	0	17	0	0	0
Minnesota	5	16	0	7	0	0	26
Missouri	0	5	0	5	0	0	16
Nebraska	4	63	0	33	0	0	24
North Dakota	0	7	0	29	0	0	21
South Dakota	0	33	0	33	0	0	15
South Atlantic	**0**	**3**	**7**	**1**	**0**	**0**	**7**
Delaware	0	41	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	8	0	1	0	0	40
Georgia	0	38	59	3	0	0	11
Maryland	0	20	0	3	0	0	2
North Carolina	0	7	0	2	0	0	9
South Carolina	0	16	0	3	0	0	15
Virginia	6	2	0	2	0	0	18
West Virginia	1	0	0	14	0	0	17
East South Central	**0**	**11**	**0**	**1**	**0**	**0**	**5**
Alabama	0	48	0	2	0	0	6
Kentucky	0	4	0	2	0	0	10
Mississippi	0	7	0	2	0	0	0
Tennessee	0	0	0	3	0	0	7
West South Central	**0**	**13**	**1**	**1**	**3**	**0**	**7**
Arkansas	0	17	0	5	0	0	10
Louisiana	0	45	0	2	7	0	15
Oklahoma	0	2	0	2	0	0	11
Texas	0	20	35	1	2	0	17
Mountain	**1**	**3**	**0**	**1**	**3**	**0**	**5**
Arizona	0	2	0	1	0	0	5
Colorado	0	12	0	2	0	0	20
Idaho	119	0	0	13	0	0	10
Montana	9	7	0	33	0	0	10
Nevada	0	0	0	1	0	0	2
New Mexico	0	39	0	3	0	0	76
Utah	0	1	0	4	0	0	35
Wyoming	4	0	0	9	3	0	30
Pacific Contiguous	**0**	**10**	**0**	**1**	**1**	**0**	**2**
California	0	8	0	1	2	0	6
Oregon	0	0	0	3	0	0	4
Washington	0	31	0	6	0	0	1
Pacific Noncontiguous	**18**	**1**	**0**	**19**	**0**	**0**	**22**
Alaska	59	3	0	19	0	0	23
Hawaii	0	1	0	0	0	0	49
U.S. Total	**0**	**1**	**3**	**1**	**3**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through June 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**	**7**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	29	12	0	0	1
Maine	0	0	0	97	8	0	0	6
Massachusetts	0	0	0	8	6	0	1	3
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	48	11	0	0	8
Vermont	0	0	0	24	18	0	0	12
Middle Atlantic	**0**	**0**	**0**	**7**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	8	5	0	0	1
New York	0	0	0	15	7	0	2	1
Pennsylvania	0	0	0	26	9	0	0	1
East North Central	**0**	**0**	**0**	**10**	**5**	**0**	**3**	**0**
Illinois	0	0	0	27	7	0	0	1
Indiana	0	0	0	14	9	0	0	1
Michigan	0	0	0	23	8	0	7	1
Ohio	0	0	0	24	8	0	0	1
Wisconsin	0	0	0	48	10	0	55	1
West North Central	**0**	**0**	**0**	**8**	**5**	**0**	**4**	**1**
Iowa	0	0	0	82	7	0	0	2
Kansas	0	0	0	98	2	0	0	2
Minnesota	0	0	0	8	7	0	4	3
Missouri	0	0	0	28	8	0	0	1
Nebraska	0	0	0	52	11	0	0	3
North Dakota	0	0	0	0	9	0	27	2
South Dakota	0	0	0	228	19	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**0**
Delaware	0	0	0	34	24	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	3	2	0	1	1
Georgia	0	0	0	6	3	0	20	1
Maryland	0	0	0	12	10	0	0	1
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	12	4	0	0	1
Virginia	0	0	0	10	6	0	0	1
West Virginia	0	0	0	0	18	0	0	1
East South Central	**0**	**0**	**0**	**8**	**2**	**0**	**11**	**0**
Alabama	0	0	0	13	3	0	0	1
Kentucky	0	0	0	38	12	0	0	1
Mississippi	0	0	0	4	3	0	0	2
Tennessee	0	0	0	22	7	0	113	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	7	4	0	65	1
Louisiana	0	0	0	218	3	0	2	1
Oklahoma	0	0	0	41	2	0	0	1
Texas	0	0	0	3	1	0	7	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	9	3	0	0	1
Idaho	0	19	0	11	11	0	0	7
Montana	0	0	0	55	18	0	0	6
Nevada	0	5	0	3	3	0	0	1
New Mexico	0	0	0	8	3	0	0	2
Utah	0	8	0	7	5	0	0	1
Wyoming	0	0	0	0	14	0	0	4
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	2	0	2	2	0	2	1
Oregon	0	12	0	12	6	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**11**	**0**	**17**	**9**	**0**	**0**	**5**
Alaska	0	0	0	0	48	0	0	13
Hawaii	0	11	0	17	9	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**2**	**0**	**1**	**0**

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Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, June 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	84	.	2
Middle Atlantic	**0**	**1**	**3**	**.**	**0**
New Jersey	0	1	4	.	1
New York	0	0	2	.	0
Pennsylvania	2	4	0	.	2
East North Central	**3**	**5**	**28**	**.**	**3**
Illinois	6	18	0	.	10
Indiana	7	5	0	.	4
Michigan	4	36	289	.	16
Ohio	6	6	66	.	5
Wisconsin	9	20	10	.	9
West North Central	**3**	**2**	**7**	**.**	**2**
Iowa	8	4	34	.	4
Kansas	12	10	0	.	8
Minnesota	8	8	6	.	5
Missouri	3	1	0	.	1
Nebraska	18	52	50	.	18
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**3**	**.**	**1**
Delaware	5	5	22	.	4
District of Columbia	0	0	0	.	0
Florida	5	11	4	.	5
Georgia	115	205	0	.	103
Maryland	1	3	4	.	1
North Carolina	11	2	0	.	6
South Carolina	3	7	0	.	3
Virginia	13	12	14	.	9
West Virginia	0	0	0	.	0
East South Central	**7**	**35**	**0**	**.**	**14**
Alabama	0	0	0	.	0
Kentucky	8	41	0	.	15
Mississippi	10	83	0	.	40
Tennessee	0	0	0	.	0
West South Central	**4**	**9**	**0**	**.**	**4**
Arkansas	24	10	0	.	14
Louisiana	4	7	0	.	3
Oklahoma	23	4	0	.	15
Texas	9	11	0	.	7
Mountain	**1**	**6**	**1**	**.**	**2**
Arizona	1	6	0	.	2
Colorado	3	17	23	.	6
Idaho	3	45	0	.	8
Montana	15	108	0	.	32
Nevada	0	0	0	.	0
New Mexico	4	33	0	.	13
Utah	2	29	0	.	6
Wyoming	37	335	0	.	91
Pacific Contiguous	**0**	**1**	**0**	**.**	**0**
California	0	1	0	.	0
Oregon	2	5	9	.	2
Washington	3	18	70	.	3
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	3	4	0	.	2
Hawaii	0	0	0	.	0
U.S. Total	**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.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, June 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**40**	**0**	**0**	**19**
Connecticut	0	88	0	0	0	0	51
Maine	0	0	0	0	0	0	0
Massachusetts	0	60	0	53	0	0	52
New Hampshire	0	48	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	137	0	0	0	0	28
Middle Atlantic	**0**	**36**	**0**	**5**	**0**	**0**	**1**
New Jersey	0	166	0	89	0	0	0
New York	0	36	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**7**	**0**	**2**	**7**	**0**	**13**
Illinois	0	74	0	0	0	0	50
Indiana	1	4	0	4	97	0	25
Michigan	3	7	0	4	0	0	25
Ohio	11	83	0	4	0	0	29
Wisconsin	1	17	0	4	0	0	19
West North Central	**1**	**5**	**0**	**5**	**0**	**0**	**9**
Iowa	1	10	0	4	0	0	31
Kansas	2	5	0	17	0	0	0
Minnesota	5	16	0	7	0	0	32
Missouri	0	5	0	8	0	0	16
Nebraska	4	63	0	33	0	0	24
North Dakota	0	7	0	29	0	0	21
South Dakota	0	33	0	33	0	0	15
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	2	0	1	0	0	40
Georgia	0	11	0	3	0	0	11
Maryland	0	14	0	0	0	0	0
North Carolina	0	3	0	2	0	0	9
South Carolina	0	18	0	3	0	0	15
Virginia	6	2	0	3	0	0	19
West Virginia	0	0	0	0	0	0	28
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**5**
Alabama	0	4	0	5	0	0	6
Kentucky	0	4	0	2	0	0	10
Mississippi	0	8	0	2	0	0	0
Tennessee	0	0	0	3	0	0	7
West South Central	**0**	**16**	**0**	**2**	**0**	**0**	**7**
Arkansas	0	20	0	5	0	0	10
Louisiana	0	45	0	3	0	0	0
Oklahoma	0	2	0	4	0	0	11
Texas	0	28	0	4	0	0	17
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	2	0	2	0	0	5
Colorado	0	12	0	2	0	0	21
Idaho	0	0	0	11	0	0	11
Montana	0	372	0	33	0	0	10
Nevada	0	0	0	1	0	0	0
New Mexico	0	39	0	4	0	0	76
Utah	0	1	0	5	0	0	35
Wyoming	4	0	0	28	0	0	30
Pacific Contiguous	**0**	**10**	**0**	**3**	**0**	**0**	**2**
California	0	11	0	3	0	0	5
Oregon	0	0	0	6	0	0	4
Washington	0	587	0	8	0	0	1
Pacific Noncontiguous	**118**	**1**	**0**	**19**	**0**	**0**	**24**
Alaska	118	4	0	19	0	0	24
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**7**	**0**	**2**

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

Electric Utilities by Census Division and State, June 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**	**34**	**15**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	55	69	0	0	33
New Hampshire	0	0	0	0	0	0	0	12
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	46	26	0	0	19
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	17
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**	**12**	**0**	**3**	**1**
Illinois	0	0	0	0	68	0	0	0
Indiana	0	0	0	26	14	0	0	1
Michigan	0	0	0	23	18	0	0	2
Ohio	0	0	0	74	91	0	0	6
Wisconsin	0	0	0	0	19	0	25	2
West North Central	**0**	**0**	**0**	**60**	**6**	**0**	**5**	**1**
Iowa	0	0	0	90	6	0	0	2
Kansas	0	0	0	228	7	0	0	3
Minnesota	0	0	0	151	14	0	0	3
Missouri	0	0	0	0	42	0	0	1
Nebraska	0	0	0	0	40	0	0	4
North Dakota	0	0	0	0	14	0	27	2
South Dakota	0	0	0	0	32	0	0	9
South Atlantic	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Delaware	0	0	0	94	94	0	0	53
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	14	14	0	0	1
Maryland	0	0	0	81	81	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	6	0	0	1
Virginia	0	0	0	23	15	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**32**	**22**	**0**	**0**	**1**
Alabama	0	0	0	54	54	0	0	1
Kentucky	0	0	0	38	23	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**38**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	228	228	0	0	2
Louisiana	0	0	0	218	218	0	0	1
Oklahoma	0	0	0	41	7	0	0	2
Texas	0	0	0	132	26	0	0	2
Mountain	**0**	**11**	**0**	**8**	**10**	**0**	**0**	**1**
Arizona	0	0	0	10	10	0	0	1
Colorado	0	0	0	136	30	0	0	1
Idaho	0	0	0	0	60	0	0	9
Montana	0	0	0	0	57	0	0	9
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	18	18	0	0	2
Utah	0	11	0	0	11	0	0	1
Wyoming	0	0	0	0	20	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**12**	**5**	**0**	**0**	**1**
California	0	0	0	12	4	0	0	2
Oregon	0	0	0	98	6	0	0	3
Washington	0	0	0	0	11	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**45**	**0**	**0**	**7**
Alaska	0	0	0	0	78	0	0	14
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**4**	**4**	**0**	**2**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**40**	**0**	**0**	**19**
Connecticut	0	88	0	0	0	0	51
Maine	0	0	0	0	0	0	0
Massachusetts	0	60	0	53	0	0	52
New Hampshire	0	48	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	137	0	0	0	0	28
Middle Atlantic	**0**	**36**	**0**	**5**	**0**	**0**	**1**
New Jersey	0	166	0	89	0	0	0
New York	0	36	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**7**	**0**	**2**	**7**	**0**	**13**
Illinois	0	74	0	0	0	0	50
Indiana	1	4	0	4	97	0	25
Michigan	3	7	0	4	0	0	25
Ohio	11	83	0	4	0	0	29
Wisconsin	1	17	0	4	0	0	19
West North Central	**1**	**5**	**0**	**5**	**0**	**0**	**9**
Iowa	1	10	0	4	0	0	31
Kansas	2	5	0	17	0	0	0
Minnesota	5	16	0	7	0	0	32
Missouri	0	5	0	8	0	0	16
Nebraska	4	63	0	33	0	0	24
North Dakota	0	7	0	29	0	0	21
South Dakota	0	33	0	33	0	0	15
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	2	0	1	0	0	40
Georgia	0	11	0	3	0	0	11
Maryland	0	14	0	0	0	0	0
North Carolina	0	3	0	2	0	0	9
South Carolina	0	18	0	3	0	0	15
Virginia	6	2	0	3	0	0	19
West Virginia	0	0	0	0	0	0	28
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**5**
Alabama	0	4	0	5	0	0	6
Kentucky	0	4	0	2	0	0	10
Mississippi	0	8	0	2	0	0	0
Tennessee	0	0	0	3	0	0	7
West South Central	**0**	**16**	**0**	**2**	**0**	**0**	**7**
Arkansas	0	20	0	5	0	0	10
Louisiana	0	45	0	3	0	0	0
Oklahoma	0	2	0	4	0	0	11
Texas	0	28	0	4	0	0	17
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	2	0	2	0	0	5
Colorado	0	12	0	2	0	0	21
Idaho	0	0	0	11	0	0	11
Montana	0	372	0	33	0	0	10
Nevada	0	0	0	1	0	0	0
New Mexico	0	39	0	4	0	0	76
Utah	0	1	0	5	0	0	35
Wyoming	4	0	0	28	0	0	30
Pacific Contiguous	**0**	**10**	**0**	**3**	**0**	**0**	**2**
California	0	11	0	3	0	0	5
Oregon	0	0	0	6	0	0	4
Washington	0	587	0	8	0	0	1
Pacific Noncontiguous	**118**	**1**	**0**	**19**	**0**	**0**	**24**
Alaska	118	4	0	19	0	0	24
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**7**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through June 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**	**34**	**15**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	15
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	55	69	0	0	33
New Hampshire	0	0	0	0	0	0	0	12
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	46	26	0	0	19
Middle Atlantic	**0**	**0**	**0**	**26**	**26**	**0**	**0**	**2**
New Jersey	0	0	0	26	26	0	0	17
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**	**12**	**0**	**3**	**1**
Illinois	0	0	0	0	68	0	0	0
Indiana	0	0	0	26	14	0	0	1
Michigan	0	0	0	23	18	0	0	2
Ohio	0	0	0	74	91	0	0	6
Wisconsin	0	0	0	0	19	0	25	2
West North Central	**0**	**0**	**0**	**60**	**6**	**0**	**5**	**1**
Iowa	0	0	0	90	6	0	0	2
Kansas	0	0	0	228	7	0	0	3
Minnesota	0	0	0	151	14	0	0	3
Missouri	0	0	0	0	42	0	0	1
Nebraska	0	0	0	0	40	0	0	4
North Dakota	0	0	0	0	14	0	27	2
South Dakota	0	0	0	0	32	0	0	9
South Atlantic	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Delaware	0	0	0	94	94	0	0	53
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	14	14	0	0	1
Maryland	0	0	0	81	81	0	0	0
North Carolina	0	0	0	13	13	0	0	1
South Carolina	0	0	0	0	6	0	0	1
Virginia	0	0	0	23	15	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**32**	**22**	**0**	**0**	**1**
Alabama	0	0	0	54	54	0	0	1
Kentucky	0	0	0	38	23	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**38**	**7**	**0**	**0**	**1**
Arkansas	0	0	0	228	228	0	0	2
Louisiana	0	0	0	218	218	0	0	1
Oklahoma	0	0	0	41	7	0	0	2
Texas	0	0	0	132	26	0	0	2
Mountain	**0**	**11**	**0**	**8**	**10**	**0**	**0**	**1**
Arizona	0	0	0	10	10	0	0	1
Colorado	0	0	0	136	30	0	0	1
Idaho	0	0	0	0	60	0	0	9
Montana	0	0	0	0	57	0	0	9
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	18	18	0	0	2
Utah	0	11	0	0	11	0	0	1
Wyoming	0	0	0	0	20	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**12**	**5**	**0**	**0**	**1**
California	0	0	0	12	4	0	0	2
Oregon	0	0	0	98	6	0	0	3
Washington	0	0	0	0	11	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**45**	**0**	**0**	**7**
Alaska	0	0	0	0	78	0	0	14
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**3**	**0**	**4**	**4**	**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, June 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	6	0	1	0	0	40
Maine	0	581	0	15	0	0	11
Massachusetts	0	63	0	4	0	0	24
New Hampshire	0	1,039	0	0	0	0	23
Rhode Island	0	217	0	9	0	0	0
Vermont	0	0	0	0	0	0	21
Middle Atlantic	**3**	**13**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	22	0	2	0	0	0
New York	0	43	0	2	0	0	9
Pennsylvania	3	13	0	1	0	0	13
East North Central	**0**	**12**	**86**	**1**	**4**	**0**	**33**
Illinois	0	17	0	6	0	0	39
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	90
Ohio	0	14	86	1	13	0	39
Wisconsin	0	0	0	0	0	0	83
West North Central	**0**	**145**	**0**	**7**	**0**	**0**	**56**
Iowa	0	32	0	7,522	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	211	0	25	0	0	62
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**14**	**0**	**3**	**0**	**0**	**6**
Delaware	0	42	0	11	0	0	0
Florida	0	25	0	8	0	0	0
Georgia	0	107	0	8	0	0	50
Maryland	0	22	0	5	0	0	2
North Carolina	0	87	0	8	0	0	45
South Carolina	0	0	0	3	0	0	56
Virginia	0	9	0	2	0	0	40
West Virginia	6	0	0	17	0	0	29
East South Central	**0**	**56**	**0**	**0**	**0**	**0**	**165**
Alabama	0	108	0	0	0	0	0
Kentucky	0	0	0	0	0	0	165
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**33**	**0**	**1**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	8	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	40	0	1	0	0	0
Mountain	**7**	**4**	**0**	**2**	**0**	**0**	**26**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	64
Idaho	0	0	0	26	0	0	33
Montana	9	4	0	291	0	0	78
Nevada	0	0	0	0	0	0	88
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**23**
California	0	0	0	2	0	0	30
Oregon	0	0	0	2	0	0	56
Washington	0	29	0	9	0	0	43
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	40	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**3**	**64**	**1**	**2**	**0**	**6**

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

Independent Power Producers by Census Division and State, June 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	30	12	0	0	1
Maine	0	0	0	97	11	0	0	7
Massachusetts	0	0	0	8	6	0	1	3
New Hampshire	0	0	0	0	19	0	0	2
Rhode Island	0	0	0	48	11	0	0	8
Vermont	0	0	0	28	24	0	0	16
Middle Atlantic	**0**	**0**	**0**	**7**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	9	6	0	0	1
New York	0	0	0	15	8	0	0	1
Pennsylvania	0	0	0	30	10	0	0	1
East North Central	**0**	**0**	**0**	**13**	**5**	**0**	**11**	**0**
Illinois	0	0	0	27	7	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	66	10	0	16	2
Ohio	0	0	0	26	8	0	0	0
Wisconsin	0	0	0	50	13	0	0	2
West North Central	**0**	**0**	**0**	**8**	**4**	**0**	**0**	**4**
Iowa	0	0	0	200	11	0	0	6
Kansas	0	0	0	106	2	0	0	2
Minnesota	0	0	0	8	7	0	0	7
Missouri	0	0	0	29	9	0	0	4
Nebraska	0	0	0	52	11	0	0	11
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	228	21	0	0	21
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	37	27	0	0	9
Florida	0	0	0	12	4	0	1	5
Georgia	0	0	0	7	6	0	0	7
Maryland	0	0	0	12	11	0	0	1
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	12	12	0	0	3
Virginia	0	0	0	11	7	0	0	2
West Virginia	0	0	0	0	18	0	0	5
East South Central	**0**	**0**	**0**	**8**	**7**	**0**	**0**	**0**
Alabama	0	0	0	14	10	0	0	1
Kentucky	0	0	0	218	78	0	0	10
Mississippi	0	0	0	4	5	0	0	0
Tennessee	0	0	0	22	21	0	0	20
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	9	0	0	1
Louisiana	0	0	0	0	29	0	0	3
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	1	0	0	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	3
Idaho	0	19	0	11	12	0	0	11
Montana	0	0	0	55	19	0	0	8
Nevada	0	5	0	3	3	0	0	2
New Mexico	0	0	0	9	3	0	0	3
Utah	0	11	0	7	6	0	0	5
Wyoming	0	0	0	0	17	0	0	13
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	12	0	12	8	0	0	6
Washington	0	0	0	0	14	0	0	7
Pacific Noncontiguous	**0**	**11**	**0**	**20**	**11**	**0**	**0**	**4**
Alaska	0	0	0	0	109	0	0	39
Hawaii	0	11	0	20	11	0	0	3
U.S. Total	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	6	0	1	0	0	40
Maine	0	581	0	15	0	0	11
Massachusetts	0	63	0	4	0	0	24
New Hampshire	0	1,039	0	0	0	0	23
Rhode Island	0	217	0	9	0	0	0
Vermont	0	0	0	0	0	0	21
Middle Atlantic	**3**	**13**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	22	0	2	0	0	0
New York	0	43	0	2	0	0	9
Pennsylvania	3	13	0	1	0	0	13
East North Central	**0**	**12**	**86**	**1**	**4**	**0**	**33**
Illinois	0	17	0	6	0	0	39
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	90
Ohio	0	14	86	1	13	0	39
Wisconsin	0	0	0	0	0	0	83
West North Central	**0**	**145**	**0**	**7**	**0**	**0**	**56**
Iowa	0	32	0	7,522	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	211	0	25	0	0	62
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**14**	**0**	**3**	**0**	**0**	**6**
Delaware	0	42	0	11	0	0	0
Florida	0	25	0	8	0	0	0
Georgia	0	107	0	8	0	0	50
Maryland	0	22	0	5	0	0	2
North Carolina	0	87	0	8	0	0	45
South Carolina	0	0	0	3	0	0	56
Virginia	0	9	0	2	0	0	40
West Virginia	6	0	0	17	0	0	29
East South Central	**0**	**56**	**0**	**0**	**0**	**0**	**165**
Alabama	0	108	0	0	0	0	0
Kentucky	0	0	0	0	0	0	165
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**33**	**0**	**1**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	8	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	40	0	1	0	0	0
Mountain	**7**	**4**	**0**	**2**	**0**	**0**	**26**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	10	0	0	64
Idaho	0	0	0	26	0	0	33
Montana	9	4	0	291	0	0	78
Nevada	0	0	0	0	0	0	88
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**23**
California	0	0	0	2	0	0	30
Oregon	0	0	0	2	0	0	56
Washington	0	29	0	9	0	0	43
Pacific Noncontiguous	**5**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	40	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**3**	**64**	**1**	**2**	**0**	**6**

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

Independent Power Producers by Census Division and State, Year-to-Date through June 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	30	12	0	0	1
Maine	0	0	0	97	11	0	0	7
Massachusetts	0	0	0	8	6	0	1	3
New Hampshire	0	0	0	0	19	0	0	2
Rhode Island	0	0	0	48	11	0	0	8
Vermont	0	0	0	28	24	0	0	16
Middle Atlantic	**0**	**0**	**0**	**7**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	9	6	0	0	1
New York	0	0	0	15	8	0	0	1
Pennsylvania	0	0	0	30	10	0	0	1
East North Central	**0**	**0**	**0**	**13**	**5**	**0**	**11**	**0**
Illinois	0	0	0	27	7	0	0	1
Indiana	0	0	0	17	10	0	0	2
Michigan	0	0	0	66	10	0	16	2
Ohio	0	0	0	26	8	0	0	0
Wisconsin	0	0	0	50	13	0	0	2
West North Central	**0**	**0**	**0**	**8**	**4**	**0**	**0**	**4**
Iowa	0	0	0	200	11	0	0	6
Kansas	0	0	0	106	2	0	0	2
Minnesota	0	0	0	8	7	0	0	7
Missouri	0	0	0	29	9	0	0	4
Nebraska	0	0	0	52	11	0	0	11
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	228	21	0	0	21
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	37	27	0	0	9
Florida	0	0	0	12	4	0	1	5
Georgia	0	0	0	7	6	0	0	7
Maryland	0	0	0	12	11	0	0	1
North Carolina	0	0	0	4	3	0	0	4
South Carolina	0	0	0	12	12	0	0	3
Virginia	0	0	0	11	7	0	0	2
West Virginia	0	0	0	0	18	0	0	5
East South Central	**0**	**0**	**0**	**8**	**7**	**0**	**0**	**0**
Alabama	0	0	0	14	10	0	0	1
Kentucky	0	0	0	218	78	0	0	10
Mississippi	0	0	0	4	5	0	0	0
Tennessee	0	0	0	22	21	0	0	20
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	9	0	0	1
Louisiana	0	0	0	0	29	0	0	3
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	1	0	0	1
Mountain	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	10	3	0	0	3
Idaho	0	19	0	11	12	0	0	11
Montana	0	0	0	55	19	0	0	8
Nevada	0	5	0	3	3	0	0	2
New Mexico	0	0	0	9	3	0	0	3
Utah	0	11	0	7	6	0	0	5
Wyoming	0	0	0	0	17	0	0	13
Pacific Contiguous	**0**	**2**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	2	0	2	2	0	0	1
Oregon	0	12	0	12	8	0	0	6
Washington	0	0	0	0	14	0	0	7
Pacific Noncontiguous	**0**	**11**	**0**	**20**	**11**	**0**	**0**	**4**
Alaska	0	0	0	0	109	0	0	39
Hawaii	0	11	0	20	11	0	0	3
U.S. Total	**0**	**2**	**0**	**2**	**2**	**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, June 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**45**	**0**	**30**	**0**	**0**	**0**
Connecticut	0	3,551	0	44	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	79	0	48	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**136**	**0**	**28**	**0**	**0**	**0**
New Jersey	0	0	0	33	0	0	0
New York	0	158	0	38	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**31**	**37**	**0**	**11**	**0**	**0**	**0**
Illinois	77	343	0	45	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	10	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	16	0	0	0
West North Central	**0**	**13**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	13	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	849	0	0	0	0	0
South Atlantic	**0**	**0**	**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	5	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**	**47**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	47	0	0	0
West South Central	**0**	**13**	**0**	**18**	**0**	**0**	**507**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	26	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	13	0	21	0	0	507
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	36	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**15**	**0**	**2**	**0**	**0**	**406**
California	0	25	0	2	0	0	406
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**42**	**11**	**0**	**0**	**0**	**0**	**69**
Alaska	42	139	0	0	0	0	69
Hawaii	0	0	0	0	0	0	0
U.S. Total	**19**	**14**	**0**	**6**	**0**	**0**	**59**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, June 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**	**78**	**9**	**0**	**0**	**23**
Connecticut	0	0	0	255	255	0	0	44
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	75	22	0	0	41
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**5**	**11**
New Jersey	0	0	0	19	13	0	0	11
New York	0	0	0	111	8	0	10	21
Pennsylvania	0	0	0	76	10	0	0	5
East North Central	**0**	**0**	**0**	**94**	**9**	**0**	**0**	**8**
Illinois	0	0	0	161	180	0	0	41
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	136	53	0	0	3
Wisconsin	0	0	0	208	32	0	0	15
West North Central	**0**	**0**	**0**	**0**	**22**	**0**	**52**	**8**
Iowa	0	0	0	0	28	0	0	7
Kansas	0	0	0	0	164	0	0	164
Minnesota	0	0	0	0	79	0	52	22
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	849
South Atlantic	**0**	**0**	**0**	**22**	**9**	**0**	**0**	**3**
Delaware	0	0	0	169	94	0	0	94
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	111	36	0	0	27
Georgia	0	0	0	129	129	0	0	77
Maryland	0	0	0	90	38	0	0	2
North Carolina	0	0	0	24	23	0	0	18
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**	**114**	**114**	**0**	**0**	**45**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	114	114	0	0	45
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	26
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	19
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**9**
Arizona	0	0	0	60	60	0	0	10
Colorado	0	0	0	59	60	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	20
New Mexico	0	0	0	0	241	0	0	36
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**22**	**8**	**0**	**0**	**3**
California	0	0	0	22	8	0	0	3
Oregon	0	0	0	0	38	0	0	18
Washington	0	0	0	0	71	0	0	32
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Alaska	0	0	0	0	0	0	0	42
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**4**	**0**	**2**	**4**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**45**	**0**	**30**	**0**	**0**	**0**
Connecticut	0	3,551	0	44	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	79	0	48	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**136**	**0**	**28**	**0**	**0**	**0**
New Jersey	0	0	0	33	0	0	0
New York	0	158	0	38	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**31**	**37**	**0**	**11**	**0**	**0**	**0**
Illinois	77	343	0	45	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	10	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	16	0	0	0
West North Central	**0**	**13**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	13	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	849	0	0	0	0	0
South Atlantic	**0**	**0**	**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	5	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**	**47**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	47	0	0	0
West South Central	**0**	**13**	**0**	**18**	**0**	**0**	**507**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	26	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	13	0	21	0	0	507
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	36	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**15**	**0**	**2**	**0**	**0**	**406**
California	0	25	0	2	0	0	406
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**42**	**11**	**0**	**0**	**0**	**0**	**69**
Alaska	42	139	0	0	0	0	69
Hawaii	0	0	0	0	0	0	0
U.S. Total	**19**	**14**	**0**	**6**	**0**	**0**	**59**

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

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

Commercial Sector by Census Division and State, Year-to-Date through June 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**	**78**	**9**	**0**	**0**	**23**
Connecticut	0	0	0	255	255	0	0	44
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	75	22	0	0	41
New Hampshire	0	0	0	0	0	0	0	1
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**18**	**7**	**0**	**5**	**11**
New Jersey	0	0	0	19	13	0	0	11
New York	0	0	0	111	8	0	10	21
Pennsylvania	0	0	0	76	10	0	0	5
East North Central	**0**	**0**	**0**	**94**	**9**	**0**	**0**	**8**
Illinois	0	0	0	161	180	0	0	41
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	136	53	0	0	3
Wisconsin	0	0	0	208	32	0	0	15
West North Central	**0**	**0**	**0**	**0**	**22**	**0**	**52**	**8**
Iowa	0	0	0	0	28	0	0	7
Kansas	0	0	0	0	164	0	0	164
Minnesota	0	0	0	0	79	0	52	22
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	849
South Atlantic	**0**	**0**	**0**	**22**	**9**	**0**	**0**	**3**
Delaware	0	0	0	169	94	0	0	94
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	111	36	0	0	27
Georgia	0	0	0	129	129	0	0	77
Maryland	0	0	0	90	38	0	0	2
North Carolina	0	0	0	24	23	0	0	18
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**	**114**	**114**	**0**	**0**	**45**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	114	114	0	0	45
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	26
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	19
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**9**
Arizona	0	0	0	60	60	0	0	10
Colorado	0	0	0	59	60	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	32	32	0	0	20
New Mexico	0	0	0	0	241	0	0	36
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**22**	**8**	**0**	**0**	**3**
California	0	0	0	22	8	0	0	3
Oregon	0	0	0	0	38	0	0	18
Washington	0	0	0	0	71	0	0	32
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17**
Alaska	0	0	0	0	0	0	0	42
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**4**	**0**	**2**	**4**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**187**	**94**	**0**	**19**	**0**	**0**	**28**
Connecticut	0	0	0	26	0	0	0
Maine	187	94	0	52	0	0	28
Massachusetts	0	0	0	18	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**35**	**25**	**53**	**16**	**11**	**0**	**44**
New Jersey	0	0	0	18	0	0	0
New York	0	0	0	13	0	0	44
Pennsylvania	35	71	103	28	14	0	0
East North Central	**6**	**10**	**0**	**11**	**6**	**0**	**46**
Illinois	6	0	0	31	0	0	0
Indiana	0	0	0	15	7	0	0
Michigan	48	73	0	18	0	0	104
Ohio	177	0	0	26	0	0	0
Wisconsin	26	216	0	19	0	0	50
West North Central	**3**	**0**	**0**	**4**	**0**	**0**	**52**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	110	0	0	0
Minnesota	11	0	0	0	0	0	52
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Atlantic	**18**	**53**	**59**	**5**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	29	110	0	13	0	0	0
Georgia	68	109	59	14	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	16	44	0	34	0	0	457
South Carolina	0	0	0	0	0	0	0
Virginia	20	649	0	7	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**5**	**116**	**0**	**9**	**0**	**0**	**0**
Alabama	52	138	0	15	0	0	0
Kentucky	0	0	0	27	0	0	0
Mississippi	0	0	0	22	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**0**	**14**	**1**	**5**	**0**	**0**
Arkansas	0	0	0	18	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	35	2	5	0	0
Mountain	**24**	**0**	**0**	**5**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	119	0	0	62	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	25	0	0	8	3	0	0
Pacific Contiguous	**0**	**33**	**0**	**1**	**2**	**0**	**0**
California	0	16	0	1	2	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	37	0	82	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**133**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	133
U.S. Total	**3**	**16**	**20**	**1**	**3**	**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, June 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**	**9**
Connecticut	0	0	0	722	722	0	0	25
Maine	0	0	0	0	6	0	0	10
Massachusetts	0	0	0	0	0	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**56**	**7**	**0**	**0**	**10**
New Jersey	0	0	0	81	81	0	0	11
New York	0	0	0	0	12	0	0	10
Pennsylvania	0	0	0	78	9	0	0	15
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**4**	**4**
Illinois	0	0	0	0	0	0	0	8
Indiana	0	0	0	0	32	0	0	6
Michigan	0	0	0	0	7	0	0	7
Ohio	0	0	0	0	20	0	0	11
Wisconsin	0	0	0	0	7	0	86	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	89
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	33
South Atlantic	**0**	**0**	**0**	**166**	**2**	**0**	**2**	**2**
Delaware	0	0	0	0	73	0	0	1
Florida	0	0	0	166	5	0	1	5
Georgia	0	0	0	0	3	0	20	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	6
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	17
East South Central	**0**	**0**	**0**	**132**	**2**	**0**	**113**	**3**
Alabama	0	0	0	0	3	0	0	5
Kentucky	0	0	0	0	13	0	0	13
Mississippi	0	0	0	0	3	0	0	5
Tennessee	0	0	0	132	5	0	113	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**1**
Arkansas	0	0	0	0	4	0	65	5
Louisiana	0	0	0	0	3	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	9	0	9	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	11
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**46**	**5**	**0**	**3**	**1**
California	0	0	0	46	8	0	3	1
Oregon	0	0	0	0	10	0	0	10
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**434**	**0**	**0**	**13**
Alaska	0	0	0	0	434	0	0	4
Hawaii	0	0	0	0	0	0	0	17
U.S. Total	**0**	**0**	**0**	**31**	**1**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through June 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**187**	**94**	**0**	**19**	**0**	**0**	**28**
Connecticut	0	0	0	26	0	0	0
Maine	187	94	0	52	0	0	28
Massachusetts	0	0	0	18	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**35**	**25**	**53**	**16**	**11**	**0**	**44**
New Jersey	0	0	0	18	0	0	0
New York	0	0	0	13	0	0	44
Pennsylvania	35	71	103	28	14	0	0
East North Central	**6**	**10**	**0**	**11**	**6**	**0**	**46**
Illinois	6	0	0	31	0	0	0
Indiana	0	0	0	15	7	0	0
Michigan	48	73	0	18	0	0	104
Ohio	177	0	0	26	0	0	0
Wisconsin	26	216	0	19	0	0	50
West North Central	**3**	**0**	**0**	**4**	**0**	**0**	**52**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	110	0	0	0
Minnesota	11	0	0	0	0	0	52
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Atlantic	**18**	**53**	**59**	**5**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	29	110	0	13	0	0	0
Georgia	68	109	59	14	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	16	44	0	34	0	0	457
South Carolina	0	0	0	0	0	0	0
Virginia	20	649	0	7	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**5**	**116**	**0**	**9**	**0**	**0**	**0**
Alabama	52	138	0	15	0	0	0
Kentucky	0	0	0	27	0	0	0
Mississippi	0	0	0	22	0	0	0
Tennessee	0	0	0	11	0	0	0
West South Central	**0**	**0**	**14**	**1**	**5**	**0**	**0**
Arkansas	0	0	0	18	0	0	0
Louisiana	0	0	0	2	7	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	35	2	5	0	0
Mountain	**24**	**0**	**0**	**5**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	119	0	0	62	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	25	0	0	8	3	0	0
Pacific Contiguous	**0**	**33**	**0**	**1**	**2**	**0**	**0**
California	0	16	0	1	2	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	37	0	82	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**133**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	133
U.S. Total	**3**	**16**	**20**	**1**	**3**	**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 June 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**	**9**
Connecticut	0	0	0	722	722	0	0	25
Maine	0	0	0	0	6	0	0	10
Massachusetts	0	0	0	0	0	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**56**	**7**	**0**	**0**	**10**
New Jersey	0	0	0	81	81	0	0	11
New York	0	0	0	0	12	0	0	10
Pennsylvania	0	0	0	78	9	0	0	15
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**4**	**4**
Illinois	0	0	0	0	0	0	0	8
Indiana	0	0	0	0	32	0	0	6
Michigan	0	0	0	0	7	0	0	7
Ohio	0	0	0	0	20	0	0	11
Wisconsin	0	0	0	0	7	0	86	10
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	89
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	33
South Atlantic	**0**	**0**	**0**	**166**	**2**	**0**	**2**	**2**
Delaware	0	0	0	0	73	0	0	1
Florida	0	0	0	166	5	0	1	5
Georgia	0	0	0	0	3	0	20	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	6
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	17
East South Central	**0**	**0**	**0**	**132**	**2**	**0**	**113**	**3**
Alabama	0	0	0	0	3	0	0	5
Kentucky	0	0	0	0	13	0	0	13
Mississippi	0	0	0	0	3	0	0	5
Tennessee	0	0	0	132	5	0	113	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**1**
Arkansas	0	0	0	0	4	0	65	5
Louisiana	0	0	0	0	3	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	9	0	9	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	11
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**46**	**5**	**0**	**3**	**1**
California	0	0	0	46	8	0	3	1
Oregon	0	0	0	0	10	0	0	10
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**434**	**0**	**0**	**13**
Alaska	0	0	0	0	434	0	0	4
Hawaii	0	0	0	0	0	0	0	17
U.S. Total	**0**	**0**	**0**	**31**	**1**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2018

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

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

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

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

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through June 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	3	0	1
New Hampshire	1	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	5	4	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	3	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	2	5	0	1
Minnesota	1	3	6	0	2
Missouri	1	3	4	0	1
Nebraska	1	5	9	0	3
North Dakota	1	3	6	0	3
South Dakota	2	6	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	4	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	2	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**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	4	3	0	2
Mississippi	2	2	4	0	1
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	4	0	1
Texas	1	1	2	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	4	6	0	2
Idaho	1	3	3	0	1
Montana	2	4	11	0	3
Nevada	0	2	1	0	1
New Mexico	2	6	10	0	3
Utah	1	4	3	0	2
Wyoming	2	5	4	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	2	9	0	2
Washington	1	2	7	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**

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

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

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	3	0	1
Maine	1	2	2	0	1
Massachusetts	1	1	6	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	6	6	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	3	2	0	1
Michigan	0	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	1	6	6	0	3
Kansas	1	2	6	0	2
Minnesota	1	4	7	0	2
Missouri	1	3	5	0	1
Nebraska	1	6	9	0	4
North Dakota	1	4	8	0	3
South Dakota	2	8	12	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	4	7	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	4	4	0	2
Mississippi	1	2	5	0	2
Tennessee	1	3	5	0	2
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	5	0	1
Texas	1	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	7	0	2
Idaho	1	4	4	0	2
Montana	2	6	12	0	3
Nevada	0	3	1	0	1
New Mexico	1	7	10	0	4
Utah	1	5	3	0	2
Wyoming	2	7	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	10	0	2
Washington	1	3	8	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	2	8	12	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 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	ongoing	ongoing	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	ongoing	ongoing	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	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	01/16/2018 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	01/17/2018 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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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
2018	4	04/04/2018 4:42 PM	04/07/2018 6:22 AM	61 Hours, 40 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	72896
2018	4	04/05/2018 12:50 AM	04/05/2018 4:00 PM	15 Hours, 10 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	65932
2018	4	04/09/2018 11:16 AM	ongoing	ongoing	Peak Reliability	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	300	250000
2018	4	04/09/2018 12:16 PM	04/09/2018 1:52 PM	1 Hours, 36 Minutes	Pacificorp	WECC	Utah: Salt Lake County:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	806	57000
2018	4	04/14/2018 9:30 AM	04/14/2018 10:00 AM	0 Hours, 30 Minutes	Entergy Corp	SERC	Louisiana: Arkansas: Mississippi: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56350
2018	4	04/15/2018 7:30 AM	04/18/2018 7:30 AM	72 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	389591
2018	4	04/15/2018 5:14 PM	04/15/2018 11:25 PM	6 Hours, 11 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	Unknown	78100
2018	5	05/04/2018 12:00 PM	05/06/2018 1:00 PM	49 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	300000
2018	5	05/04/2018 2:00 PM	05/05/2018 9:30 AM	19 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Calhoun County, Genesee County, Ingham County, Kent County, Macomb County, Midland County, Saginaw County, Gratiot County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000

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	5	05/04/2018 8:10 PM	ongoing	ongoing	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	106150
2018	5	05/04/2018 11:10 PM	05/05/2018 12:40 AM	1 Hours, 30 Minutes	ISO New England	NPCC	New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56000
2018	5	05/05/2018 4:30 AM	05/05/2018 3:30 PM	11 Hours, 0 Minutes	ISO New England	NPCC	Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	31900
2018	5	05/14/2018 7:08 PM	ongoing	ongoing	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	5	05/15/2018 2:50 PM	ongoing	ongoing	PPL Electric Utilities Corp	RF	Pennsylvania: Lehigh County, Schuylkill County, Cumberland County, Lancaster County, Northampton County, Berks County, Clinton County, Susquehanna County, Bucks County, Carbon County, Chester County, Columbia County, Juniata County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	114000
2018	5	05/15/2018 4:00 PM	ongoing	ongoing	Central Hudson Gas & Electric	NPCC	New York: Dutchess County, Ulster County, Orange County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72000
2018	5	05/15/2018 5:15 PM	ongoing	ongoing	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	49999
2018	5	05/15/2018 5:25 PM	ongoing	ongoing	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	82372
2018	5	05/15/2018 6:14 PM	05/15/2018 7:00 PM	0 Hours, 46 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52872
2018	5	05/15/2018 6:35 PM	05/18/2018 3:57 PM	69 Hours, 22 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	120000
2018	5	05/17/2018 1:11 AM	ongoing	ongoing	Peak Reliability	WECC	California: Contra Costa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	70	70000
2018	5	05/17/2018 1:11 AM	05/18/2018 12:38 AM	23 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption	124	70000
2018	5	05/26/2018 6:40 PM	05/27/2018 11:50 PM	29 Hours, 10 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	163932
2018	6	06/02/2018 5:00 AM	06/02/2018 11:00 AM	6 Hours, 0 Minutes	Kansas City Power & Light Co.	SPP RE	Missouri: Jackson County, Clay County, Platte County, Andrew County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103535
2018	6	06/18/2018 6:20 PM	06/19/2018 12:15 AM	5 Hours, 55 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	112927
2018	6	06/20/2018 10:58 PM	06/21/2018 6:05 AM	7 Hours, 7 Minutes	Lake Worth Utilities	FRCC	Florida: Palm Beach County;	Complete operational failure or shut-down of the transmission and/or distribution of electrical system-Transmission Interruption	73	27000
2018	6	06/22/2018 2:38 PM	ongoing	ongoing	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-Severe Weather	10000	4200000
2018	6	06/28/2018 2:50 PM	06/29/2018 9:00 AM	18 Hours, 10 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	160	48109
2018	6	06/28/2018 6:36 PM	07/01/2018 7:00 AM	60 Hours, 24 Minutes	Ameren Missouri	SERC	Missouri: Illinois:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	6	06/29/2018 7:35 AM	06/29/2018 9:30 AM	1 Hours, 55 Minutes	Minnesota Power	MRO	Minnesota: St. Louis County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Severe Weather	350	Unknown

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

Table B.2 Major Disturbances and Unusual Occurrences, 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

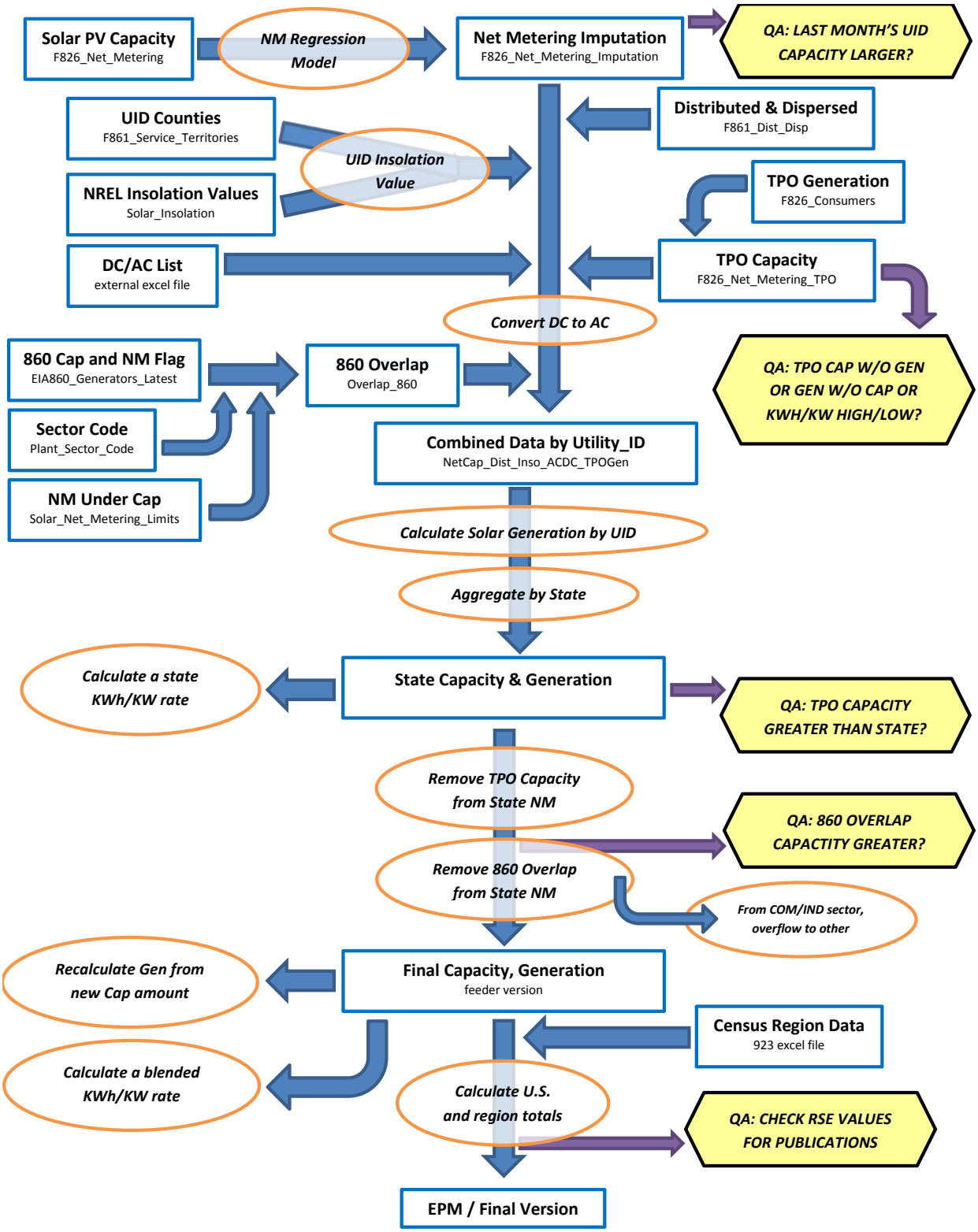
TMY3 (1991-2005) Weather Stations by MSA

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, June 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	25.50	5.78	--	1.03
Connecticut	--	5.78	--	1.03
Maine	25.50	6.03	--	1.06
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.72	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	22.63	5.81	--	1.03
New Jersey	26.32	5.52	--	1.03
New York	25.98	5.82	--	1.03
Pennsylvania	22.46	5.84	--	1.03
East North Central	20.21	5.79	27.32	1.05
Illinois	17.76	5.80	--	1.01
Indiana	22.20	5.76	--	1.05
Michigan	18.65	5.84	27.32	1.05
Ohio	24.78	5.79	--	1.06
Wisconsin	17.71	5.82	27.35	1.04
West North Central	16.56	5.79	--	1.07
Iowa	17.65	5.74	--	1.09
Kansas	17.34	5.78	--	1.05
Minnesota	17.77	5.80	--	1.09
Missouri	17.74	5.76	--	1.04
Nebraska	16.86	5.75	--	1.05
North Dakota	12.85	5.86	--	1.00
South Dakota	16.50	6.00	--	--
South Atlantic	23.60	6.03	28.32	1.03
Delaware	--	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.84	5.78	28.32	1.02
Georgia	19.89	5.83	--	1.03
Maryland	25.16	5.82	--	1.04
North Carolina	25.12	5.93	--	1.03
South Carolina	24.81	5.88	--	1.03
Virginia	22.09	6.30	--	1.05
West Virginia	24.68	5.74	--	1.07
East South Central	20.98	5.72	--	1.02
Alabama	19.65	5.56	--	1.03
Kentucky	22.41	5.82	--	1.03
Mississippi	13.02	5.80	--	1.02
Tennessee	22.81	5.76	--	1.00
West South Central	16.12	5.87	28.79	1.03
Arkansas	17.43	5.87	--	1.02
Louisiana	16.70	5.90	28.79	1.03
Oklahoma	17.26	5.80	--	1.03
Texas	15.65	5.87	--	1.03
Mountain	18.82	5.78	--	1.05
Arizona	19.65	5.62	--	1.04
Colorado	18.49	--	--	1.10
Idaho	--	--	--	1.00
Montana	16.80	5.92	--	1.05
Nevada	20.14	5.80	--	1.04
New Mexico	18.95	5.66	--	1.05
Utah	21.19	5.85	--	1.04
Wyoming	17.43	5.88	--	1.05
Pacific Contiguous	18.66	6.00	--	1.04
California	23.17	--	--	1.03
Oregon	17.16	--	--	1.06
Washington	16.52	6.00	--	1.10
Pacific Noncontiguous	18.64	6.14	--	1.00
Alaska	14.44	5.80	--	1.00
Hawaii	19.60	6.14	--	--
U.S. Total	19.19	6.02	28.42	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.