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Electric Power Monthly

with Data for October 2017

December 2017

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

Preface

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

Background

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

Data sources

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

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

Net Generation and Consumption of Fuels for October														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	90,094	99,194	-9.2%	66,665	72,950	22,716	25,524	24	27	689	693	0	0
Petroleum Liquids	Utility Scale Facilities	999	937	6.7%	752	658	203	232	7	5	37	41	0	0
Petroleum Coke	Utility Scale Facilities	535	635	-15.8%	405	418	84	141	1	0	45	75	0	0
Natural Gas	Utility Scale Facilities	106,983	102,898	4.0%	51,519	47,710	47,758	47,044	628	617	7,077	7,527	0	0
Other Gas	Utility Scale Facilities	1,011	913	10.7%	10	7	306	228	0	0	696	679	0	0
Nuclear	Utility Scale Facilities	65,995	60,733	8.7%	35,038	30,016	30,957	30,717	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	17,208	17,339	-0.8%	15,748	16,149	1,345	1,080	NM	21	102	88	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	36,112	29,749	21.4%	4,530	3,661	28,961	23,514	266	260	2,354	2,314	0	0
... Wind	Utility Scale Facilities	24,789	20,335	21.9%	3,731	3,077	21,036	17,241	14	12	8	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	4,804	3,191	50.5%	313	182	4,432	2,965	53	42	6	2	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,572	3,176	12.5%	295	187	1,012	764	5	4	2,260	2,220	0	0
... Other Biomass	Utility Scale Facilities	1,686	1,693	-0.4%	112	120	1,300	1,286	194	202	80	86	0	0
... Geothermal	Utility Scale Facilities	1,261	1,353	-6.8%	80	95	1,181	1,258	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-463	-561	-17.4%	-388	-471	-75	-90	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,021	1,121	-9.0%	41	36	519	562	89	90	372	433	0	0
All Energy Sources	Utility Scale Facilities	319,494	312,958	2.1%	174,320	171,134	132,775	128,952	1,027	1,021	11,372	11,851	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,006	1,552	29.2%	0	0	0	0	636	493	214	174	1,156	884
Estimated Total Solar Photovoltaic	All Facilities	6,496	4,495	44.5%	312	179	4,119	2,719	689	536	220	176	1,156	884
Estimated Total Solar	All Facilities	6,810	4,743	43.6%	313	182	4,432	2,965	689	536	220	176	1,156	884
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	50,172	54,537	-8.0%	36,285	39,319	13,644	14,974	7	8	236	237	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,731	1,629	6.3%	1,331	1,156	346	423	15	7	40	43	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	222	250	-11.4%	171	171	36	61	0	0	15	18	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	797,995	760,610	4.9%	399,415	368,087	353,498	345,831	3,719	3,675	41,363	43,017	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,274	1,260	1.1%	225	224	101	105	36	42	913	889	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	145	174	-16.7%	4	3	18	18	17	9	106	144	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	83	92	-9.4%	1	1	9	11	1	0	72	80	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	95,155	92,360	3.0%	3,585	2,740	27,351	27,138	6,130	6,125	58,089	56,357	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	51,446	55,798	-7.8%	36,510	39,543	13,744	15,079	43	50	1,149	1,126	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,876	1,803	4.1%	1,335	1,159	364	441	31	16	146	187	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	305	342	-10.9%	172	172	45	72	2	0	87	99	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	893,150	852,970	4.7%	403,000	370,827	380,849	372,969	9,849	9,800	99,452	99,374	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	142,128	162,428	-12.5%	114,806	131,510	26,363	29,422	98	161	860	1,335	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	31,680	38,022	-16.7%	20,002	21,022	9,641	14,732	453	590	1,584	1,678	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,283	1,099	16.8%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for October									
	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	October 2017	October 2016	Percentage Change	October 2017	October 2016	Percentage Change	October 2017	October 2016	Percentage Change
Residential	102,984	101,508	1.5%	13,220	12,648	4.5%	12.84	12.46	3.0%
Commercial	113,035	112,963	0.1%	12,230	11,914	2.7%	10.82	10.55	2.6%
Industrial	79,432	81,597	-2.7%	5,524	5,491	0.6%	6.95	6.73	3.3%
Transportation	626	613	2.2%	60	59	1.7%	9.57	9.62	-0.5%
All Sectors	296,077	296,681	-0.2%	31,034	30,111	3.1%	10.48	10.15	3.3%

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

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

Net Generation and Consumption of Fuels for January through October															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	1,009,899	1,033,461	-2.3%	752,747	770,277	250,096	255,156	273	307	6,782	7,722	0	0
Petroleum Liquids	Utility Scale Facilities	9,956	10,772	-7.6%	7,339	7,557	2,181	2,729	84	60	353	425	0	0
Petroleum Coke	Utility Scale Facilities	7,109	9,528	-25.4%	5,573	7,618	879	1,161	7	4	650	745	0	0
Natural Gas	Utility Scale Facilities	1,074,019	1,188,002	-9.6%	523,059	564,276	470,888	541,109	6,294	6,611	73,779	76,005	0	0
Other Gas	Utility Scale Facilities	11,815	10,757	9.8%	122	111	3,320	3,133	0	0	8,373	7,513	0	0
Nuclear	Utility Scale Facilities	665,097	668,853	-0.6%	351,565	354,050	313,532	314,803	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	257,699	226,476	13.8%	237,927	209,389	18,387	15,825	210	179	1,174	1,083	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	320,696	280,231	14.4%	37,649	34,307	256,197	219,458	2,648	2,705	24,201	23,761	0	0
... Wind	Utility Scale Facilities	207,769	184,441	12.6%	29,886	27,961	177,718	156,319	109	106	56	55	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	46,605	30,863	51.0%	2,989	1,702	43,051	28,677	518	460	47	24	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	35,874	33,941	5.7%	2,732	2,526	9,764	8,594	58	61	23,320	22,760	0	0
... Other Biomass	Utility Scale Facilities	17,198	17,977	-4.3%	1,171	1,226	13,285	13,752	1,963	2,078	778	922	0	0
... Geothermal	Utility Scale Facilities	13,249	13,008	1.9%	871	892	12,378	12,116	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-5,361	-5,326	0.6%	-4,497	-4,450	-863	-876	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	10,795	11,644	-7.3%	388	350	5,400	5,895	866	898	4,141	4,500	0	0
All Energy Sources	Utility Scale Facilities	3,361,725	3,434,397	-2.1%	1,911,873	1,943,485	1,320,017	1,358,393	10,382	10,764	119,453	121,755	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	21,092	16,388	28.7%	0	0	0	0	6,716	5,378	2,190	1,794	12,186	9,217
Estimated Total Solar Photovoltaic	All Facilities	64,681	44,143	46.5%	2,974	1,634	40,050	25,636	7,234	5,838	2,237	1,818	12,186	9,217
Estimated Total Solar	All Facilities	67,696	47,252	43.3%	2,989	1,702	43,051	28,677	7,234	5,838	2,237	1,818	12,186	9,217
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	554,330	564,448	-1.8%	407,457	414,045	144,476	147,777	79	89	2,317	2,537	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	17,262	18,739	-7.9%	12,895	13,478	3,829	4,723	156	85	381	453	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,804	3,611	-22.4%	2,266	2,927	369	491	2	1	167	192	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,080,844	8,804,710	-8.2%	4,062,885	4,341,538	3,546,269	3,978,477	37,474	39,813	434,215	444,882	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	12,625	13,816	-8.6%	2,328	2,445	1,101	1,102	416	459	8,779	9,810	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,453	1,933	-24.8%	50	55	165	197	216	184	1,022	1,496	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	781	904	-13.6%	8	5	97	93	12	7	664	799	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	952,774	962,885	-1.1%	34,992	31,764	279,040	300,659	62,819	68,412	575,923	562,050	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	566,955	578,264	-2.0%	409,786	416,491	145,578	148,878	496	548	11,096	12,347	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	18,715	20,671	-9.5%	12,945	13,532	3,995	4,920	373	270	1,403	1,949	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,585	4,515	-20.6%	2,274	2,932	465	584	14	8	831	991	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	9,033,618	9,767,594	-7.5%	4,097,877	4,373,301	3,825,309	4,279,136	100,294	108,225	1,010,138	1,006,932	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through October									
	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	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	Percentage Change
Residential	1,157,094	1,196,533	-3.3%	149,730	150,360	-0.4%	12.94	12.57	2.9%
Commercial	1,131,265	1,151,959	-1.8%	121,366	120,596	0.6%	10.73	10.47	2.5%
Industrial	792,957	819,677	-3.3%	55,060	55,601	-1.0%	6.94	6.78	2.4%
Transportation	6,264	6,252	0.2%	609	605	0.7%	9.73	9.68	0.5%
All Sectors	3,087,579	3,174,422	-2.7%	326,766	327,163	-0.1%	10.58	10.31	2.6%

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Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
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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.
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Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2017 and 2016

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal (1000 tons)	51,848	59,814	38.86	39.59	268	313	530,701	536,031	39.92	40.84
Petroleum Liquids (1000 barrels)	1,212	1,390	71.73	60.48	137	162	12,385	13,885	68.91	55.63
Petroleum Coke (1000 tons)	297	317	W	55.43	7	9	2,756	3,479	W	43.45
Natural Gas (1000 Mcf)	670,086	770,111	3.27	3.23	491	778	6,791,159	8,870,549	3.48	2.87

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal (1000 tons)	37,915	43,693	40.19	40.99	186	206	388,284	394,169	41.01	42.18
Petroleum Liquids (1000 barrels)	796	851	73.15	59.94	88	98	9,221	9,954	68.69	54.79
Petroleum Coke (1000 tons)	265	253	66.84	52.47	6	6	2,684	2,976	59.24	39.71
Natural Gas (1000 Mcf)	319,249	358,541	3.70	3.65	255	413	3,271,909	4,243,119	3.76	3.16

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal (1000 tons)	13,227	15,236	34.24	34.66	61	80	135,134	133,426	36.03	35.83
Petroleum Liquids (1000 barrels)	393	492	68.89	61.12	40	51	2,941	3,594	69.55	57.27
Petroleum Coke (1000 tons)	0	56	--	W	0	2	0	391	--	68.92
Natural Gas (1000 Mcf)	300,091	350,675	2.69	2.69	190	312	2,987,549	4,027,058	3.13	2.52

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal (1000 tons)	2	7	W	W	1	1	20	37	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)	588	575	W	W	3	3	6,156	6,628	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	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal (1000 tons)	704	879	W	W	20	26	7,264	8,399	W	W
Petroleum Liquids (1000 barrels)	24	48	71.09	63.78	9	13	223	338	69.29	63.38
Petroleum Coke (1000 tons)	32	8	W	W	1	1	71	112	W	W
Natural Gas (1000 Mcf)	50,157	60,320	W	W	43	50	525,545	593,745	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.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

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

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal	990,301	1,141,983	2.03	2.07	268	313	10,177,346	10,324,062	2.08	2.12
Petroleum Liquids	7,328	8,387	11.87	10.01	137	162	74,410	84,155	11.47	9.17
Petroleum Coke	8,347	8,844	W	1.98	7	9	77,280	97,632	W	1.55
Natural Gas	691,894	795,915	3.16	3.13	491	778	7,019,637	9,171,038	3.37	2.78
Fossil Fuels	1,697,870	1,955,129	W	2.51	655	975	17,348,672	19,676,888	W	2.44

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal	728,591	842,651	2.09	2.12	186	206	7,502,204	7,669,928	2.12	2.17
Petroleum Liquids	4,858	5,205	11.98	9.80	88	98	55,752	60,948	11.36	8.95
Petroleum Coke	7,454	7,088	2.37	1.87	6	6	75,309	83,818	2.11	1.41
Natural Gas	329,450	370,666	3.59	3.53	255	413	3,381,051	4,387,305	3.64	3.06
Fossil Fuels	1,070,353	1,225,610	2.60	2.58	369	547	11,014,316	12,202,000	2.63	2.51

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal	246,724	280,681	1.83	1.88	61	80	2,521,769	2,473,551	1.93	1.93
Petroleum Liquids	2,321	2,885	11.66	10.39	40	51	17,270	21,121	11.84	9.73
Petroleum Coke	0	1,549	--	W	0	2	0	10,778	--	2.50
Natural Gas	310,113	362,466	2.60	2.60	190	312	3,089,468	4,164,340	3.03	2.44
Fossil Fuels	559,159	647,582	2.26	W	238	371	5,628,508	6,669,790	2.50	W

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal	35	159	W	W	1	1	446	837	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	605	598	W	W	3	3	6,358	6,825	W	W
Fossil Fuels	640	757	W	W	3	3	6,803	7,662	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	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
Coal	14,951	18,491	W	W	20	26	152,927	179,745	W	W
Petroleum Liquids	149	297	11.43	10.34	9	13	1,388	2,086	11.11	10.26
Petroleum Coke	893	207	W	W	1	1	1,971	3,037	W	W
Natural Gas	51,726	62,185	W	W	43	50	542,760	612,568	W	W
Fossil Fuels	67,718	81,180	W	W	45	54	699,045	797,436	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... The total number of fossil fuel plants is not the sum of the figures above it because a plant that receives two or more different fuels is only counted once.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2007-October 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,378,307	12,807	805,694	267,812	36,054	305,579	-6,686	13,907	4,076,827	18,812	51,483	54,866
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
Year 2016															
January	113,459	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	1,054	313,699	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,104	304,403	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	1,124	292,908	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,210	316,800	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	1,195	367,796	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	1,239	411,901	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	1,262	409,715	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,181	351,498	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,121	312,958	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	1,111	297,075	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	1,152	345,355	1,167	3,500	3,591
Year 2017															
January	115,501	1,206	917	91,410	1,119	73,121	27,858	2,147	27,459	-435	1,087	341,389	1,230	3,287	3,377
February	86,873	955	687	80,510	1,189	64,053	24,543	2,491	28,381	-508	993	290,166	1,397	3,752	3,887
March	89,426	979	709	94,956	1,255	65,093	30,221	4,421	32,825	-521	1,049	320,413	1,986	6,111	6,408
April	81,532	884	404	86,326	1,154	56,743	29,322	4,759	32,116	-439	1,039	293,840	2,211	6,660	6,970
May	92,464	1,001	772	96,782	1,182	61,309	32,181	5,747	29,067	-423	1,076	321,159	2,441	7,786	8,188
June	107,729	1,007	873	116,062	1,208	67,011	30,423	6,230	26,220	-568	1,091	357,286	2,503	8,268	8,733
July	127,984	940	807	144,716	1,259	71,314	25,741	5,482	22,888	-759	1,200	401,572	2,578	7,749	8,061
August	119,880	998	727	139,603	1,320	72,384	21,239	5,379	20,152	-638	1,211	382,255	2,501	7,538	7,879
Sept	98,416	987	678	116,671	1,120	68,073	18,963	5,145	23,676	-606	1,029	334,152	2,239	7,034	7,384
October	90,094	999	535	106,983	1,011	65,995	17,208	4,804	31,307	-463	1,021	319,494	2,006	6,496	6,810
Year to Date															
2015	1,175,676	15,429	9,413	1,121,469	11,105	667,280	206,577	21,593	216,901	-4,526	11,603	3,452,520	12,243	30,940	33,837
2016	1,033,461	10,772	9,528	1,188,002	10,757	668,853	226,476	30,863	249,368	-5,326	11,644	3,434,397	16,388	44,143	47,252
2017	1,009,899	9,956	7,109	1,074,019	11,815	665,097	257,699	46,605	274,091	-5,361	10,795	3,361,725	21,092	64,681	67,696
Rolling 12 Months Ending in October															
2016	1,210,184	12,714	10,993	1,400,014	12,768	798,750	268,980	34,163	302,735	-5,892	14,069	4,059,478	18,284	49,008	52,447
2017	1,215,587	12,193	8,777	1,264,324	13,866	801,938	299,035	51,795	330,302	-6,720	13,058	4,004,156	23,516	72,021	75,311

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2007-October 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,993	32,670	3,384	40,947	11,218	7,265	3,331	15,826	267,812	609,445	18,812	51,483	54,866
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
Year 2016													
January	18,466	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	20,607	2,057	90	3,589	972	620	271	1,399	27,858	57,463	1,230	3,287	3,377
February	22,088	2,355	136	3,405	866	529	251	1,241	24,543	55,414	1,397	3,752	3,887
March	26,030	4,125	297	3,662	927	552	274	1,380	30,221	67,467	1,986	6,111	6,408
April	25,722	4,449	310	3,373	881	539	243	1,357	29,322	66,197	2,211	6,660	6,970
May	22,606	5,345	402	3,431	907	597	231	1,295	32,181	66,996	2,441	7,786	8,188
June	19,642	5,766	465	3,625	884	582	223	1,265	30,423	62,873	2,503	8,268	8,733
July	15,846	5,171	311	3,922	916	597	239	1,368	25,741	54,111	2,578	7,749	8,061
August	13,147	5,038	341	3,880	925	611	232	1,357	21,239	46,769	2,501	7,538	7,879
Sept	17,291	4,795	349	3,417	878	552	213	1,325	18,963	47,784	2,239	7,034	7,384
October	24,789	4,490	314	3,572	886	553	247	1,261	17,208	53,320	2,006	6,496	6,810
Year to Date													
2015	150,938	18,696	2,897	34,923	9,270	5,950	2,613	13,207	206,577	445,071	12,243	30,940	33,837
2016	184,441	27,755	3,109	33,941	9,214	6,022	2,741	13,008	226,476	506,707	16,388	44,143	47,252
2017	207,769	43,589	3,016	35,874	9,042	5,732	2,425	13,249	257,699	578,395	21,092	64,681	67,696
Rolling 12 Months Ending in October													
2016	224,221	30,724	3,439	40,946	11,236	7,284	3,329	15,719	268,980	605,877	18,284	49,008	52,447
2017	250,320	48,505	3,290	42,881	11,045	6,975	3,014	16,067	299,035	681,133	23,516	72,021	75,311

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error.
W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2007-October 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	922,399	9,069	8,881	654,780	154	424,400	247,787	1,995	40,666	-5,629	421	2,304,923
Year 2015												
January	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
Year 2016												
January	84,012	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	888	743	43,988	14	38,425	25,705	148	3,283	-346	37	198,995
February	64,900	709	540	39,009	19	34,403	22,670	172	3,745	-418	31	165,780
March	66,118	779	536	46,089	17	34,693	28,010	279	4,409	-455	35	180,512
April	59,110	665	261	42,093	19	30,217	27,070	300	4,173	-368	38	163,578
May	68,773	729	654	47,959	6	31,728	29,777	363	3,672	-350	35	183,348
June	81,394	719	698	56,423	12	35,022	28,303	377	3,402	-474	38	205,915
July	96,950	671	673	70,860	21	37,874	23,733	354	2,639	-646	43	233,172
August	90,771	722	540	68,465	NM	38,667	19,462	348	2,265	-531	46	220,760
Sept	71,956	705	523	56,654	NM	35,496	17,449	335	2,855	-522	42	185,492
October	66,665	752	405	51,519	10	35,038	15,748	313	4,218	-388	41	174,320
Year to Date												
2015	865,636	9,018	7,184	517,881	196	349,932	190,443	1,293	28,742	-3,677	461	1,967,110
2016	770,277	7,557	7,618	564,276	111	354,050	209,389	1,702	32,605	-4,450	350	1,943,485
2017	752,747	7,339	5,573	523,059	122	351,565	237,927	2,989	34,660	-4,497	388	1,911,873
Rolling 12 Months Ending in October												
2016	903,026	8,925	8,712	664,212	113	420,798	248,586	1,902	39,855	-4,878	447	2,291,698
2017	904,870	8,850	6,837	613,563	NM	421,915	276,326	3,282	42,720	-5,676	459	2,273,310

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	7,094	1,613,308
Year 2015												
January	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
Year 2016												
January	28,612	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	553	121,953
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	563	119,824
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	568	117,626
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	625	124,326
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	610	140,902
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	624	162,759
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	631	163,066
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	571	143,169
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	562	128,952
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	573	119,995
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	625	134,920
Year 2017												
January	28,593	264	116	38,890	337	34,695	2,007	1,976	21,487	-90	581	128,856
February	21,279	203	92	33,982	317	29,650	1,740	2,291	22,092	-90	515	112,072
March	22,607	155	93	40,859	355	30,400	2,059	4,091	25,753	-66	520	126,824
April	21,810	179	95	36,529	280	26,526	2,102	4,405	25,386	-71	507	117,750
May	23,035	229	41	40,989	340	29,581	2,242	5,314	22,857	-73	546	125,101
June	25,605	246	100	51,506	331	31,988	1,971	5,775	20,207	-93	550	138,186
July	30,301	227	47	65,183	356	33,440	1,867	5,058	17,432	-114	572	154,370
August	28,375	232	113	62,813	366	33,717	1,651	4,963	15,077	-107	582	147,783
Sept	25,775	243	97	52,380	332	32,577	1,402	4,745	18,326	-84	509	136,302
October	22,716	203	84	47,758	306	30,957	1,345	4,432	24,529	-75	519	132,775
Year to Date												
2015	300,374	5,751	1,394	524,621	2,981	317,349	14,974	19,915	162,058	-849	5,640	1,354,209
2016	255,156	2,729	1,161	541,109	3,133	314,803	15,825	28,677	190,781	-876	5,895	1,358,393
2017	250,096	2,181	879	470,888	3,320	313,532	18,387	43,051	213,146	-863	5,400	1,320,017
Rolling 12 Months Ending in October												
2016	297,391	3,218	1,368	636,327	3,668	377,953	18,847	31,723	231,581	-1,014	7,093	1,608,155
2017	302,204	2,813	1,118	554,378	3,946	380,023	21,100	47,876	255,919	-1,044	6,599	1,574,933

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2007-October 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
Year 2016															
January	43	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	223	0	86	1,057	406	428	428
February	32	8	1	566	0	0	NM	26	202	0	79	935	460	486	486
March	32	10	1	638	0	0	NM	49	217	0	82	1,053	630	678	678
April	19	6	0	533	0	0	NM	50	206	0	80	920	701	751	751
May	19	7	0	583	0	0	NM	65	225	0	94	1,022	774	839	839
June	23	6	0	645	0	0	NM	71	208	0	83	1,062	781	852	852
July	29	8	0	704	0	0	NM	63	218	0	94	1,137	819	881	881
August	28	9	1	698	0	0	NM	60	217	0	95	1,124	797	857	857
Sept	27	8	1	652	0	0	14	59	201	0	85	1,046	713	772	772
October	24	7	1	628	0	0	NM	53	213	0	89	1,027	636	689	689
Year to Date															
2015	433	171	7	6,270	0	0	28	366	2,325	0	970	10,570	4,973	5,339	5,339
2016	307	60	4	6,611	0	0	179	460	2,245	0	898	10,764	5,378	5,838	5,838
2017	273	84	7	6,294	0	0	210	518	2,130	0	866	10,382	6,716	7,234	7,234
Rolling 12 Months Ending in October															
2016	383	72	6	7,812	0	0	186	511	2,723	0	1,098	12,790	6,094	6,605	6,605
2017	350	100	8	7,412	0	0	NM	587	2,582	0	1,036	12,325	7,496	8,083	8,083

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
Year 2016															
January	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	7,884	768	0	123	NM	2,465	0	383	12,481	135	NM	NM
February	662	35	55	6,954	853	0	112	NM	2,341	0	367	11,380	146	NM	NM
March	669	35	79	7,371	882	0	127	NM	2,445	0	413	12,025	209	NM	NM
April	593	34	48	7,171	854	0	124	NM	2,352	0	413	11,593	226	NM	NM
May	637	35	76	7,251	835	0	135	4	2,314	0	400	11,687	251	255	255
June	706	35	75	7,488	864	0	124	8	2,403	0	419	12,123	254	262	262
July	705	34	87	7,969	883	0	121	7	2,599	0	490	12,893	264	272	272
August	706	34	72	7,627	951	0	109	7	2,592	0	489	12,587	258	265	265
Sept	658	32	56	6,986	787	0	98	6	2,295	0	394	11,312	235	241	241
October	689	37	45	7,077	696	0	102	6	2,348	0	372	11,372	214	220	220
Year to Date															
2015	9,234	489	827	72,697	7,928	0	1,132	19	23,775	0	4,531	120,632	1,258	1,276	1,276
2016	7,722	425	745	76,005	7,513	0	1,083	24	23,737	0	4,500	121,755	1,794	1,818	1,818
2017	6,782	353	650	73,779	8,373	0	1,174	47	24,155	0	4,141	119,453	2,190	2,237	2,237
Rolling 12 Months Ending in October															
2016	9,385	499	908	91,663	8,987	0	1,361	26	28,576	0	5,431	146,836	1,987	2,014	2,014
2017	8,163	430	814	88,971	9,755	0	1,361	NM	29,081	0	4,964	143,588	2,456	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
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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-October 2017 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	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	690
February	791
March	1,148
April	1,285
May	1,416
June	1,468
July	1,495
August	1,446
Sept	1,291
October	1,156
Year to Date	
2015	6,012
2016	9,217
2017	12,186
Rolling 12 Months Ending in October	
2016	10,203
2017	13,564

See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 are preliminary.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	7,830	7,936	-1.3%	193	106	7,316	7,551	110	97	211	182
Connecticut	2,484	3,088	-19.5%	6	5	2,403	3,012	34	33	43	38
Maine	903	815	10.8%	0	0	738	669	20	19	145	127
Massachusetts	2,372	2,060	15.2%	NM	23	2,252	1,986	46	35	20	15
New Hampshire	1,444	1,477	-2.2%	57	40	1,379	1,430	6	5	3	2
Rhode Island	NM	423	NM	0	1	NM	417	5	5	0	0
Vermont	165	74	121.9%	76	38	89	36	0	0	0	0
Middle Atlantic	32,479	32,475	0.0%	2,496	2,538	29,429	29,414	194	162	361	361
New Jersey	5,716	6,404	-10.7%	NM	17	5,575	6,276	58	52	60	58
New York	10,689	10,469	2.1%	2,469	2,517	8,044	7,778	104	96	72	78
Pennsylvania	16,074	15,602	3.0%	4	4	15,809	15,360	32	13	229	225
East North Central	46,020	44,373	3.7%	19,228	17,782	25,746	25,710	152	153	894	728
Illinois	15,050	14,868	1.2%	409	233	14,369	14,394	30	33	244	207
Indiana	8,417	7,850	7.2%	7,120	6,868	922	716	22	22	353	244
Michigan	8,697	8,012	8.5%	5,679	5,402	2,832	2,434	68	72	119	104
Ohio	8,506	9,033	-5.8%	1,548	1,859	6,881	7,106	22	19	54	49
Wisconsin	5,349	4,610	16.0%	4,472	3,419	743	1,061	10	8	125	123
West North Central	26,741	24,203	10.5%	20,727	19,893	5,620	3,928	51	48	344	334
Iowa	4,315	4,235	1.9%	2,979	3,392	1,138	670	18	15	180	157
Kansas	4,243	3,254	30.4%	2,617	1,923	1,623	1,328	NM	0	NM	3
Minnesota	4,988	4,599	8.5%	3,742	3,589	1,112	865	14	13	119	131
Missouri	6,067	5,419	12.0%	5,729	5,288	NM	110	16	18	3	4
Nebraska	2,778	2,617	6.2%	2,245	2,275	507	318	1	2	24	21
North Dakota	3,663	3,329	10.0%	2,944	2,923	704	389	0	0	15	17
South Dakota	688	750	-8.2%	470	503	218	247	NM	0	0	0
South Atlantic	63,302	60,825	4.1%	52,155	50,179	9,469	9,040	89	89	1,589	1,516
Delaware	590	788	-25.1%	4	7	476	663	NM	1	110	117
District of Columbia	5	6	-17.2%	0	0	5	4	0	2	0	0
Florida	20,600	19,266	6.9%	18,984	17,684	1,186	1,172	6	6	424	403
Georgia	10,409	10,157	2.5%	8,658	9,032	1,332	734	NM	1	418	390
Maryland	2,592	3,023	-14.3%	2	1	2,531	2,968	40	32	20	23
North Carolina	9,589	9,097	5.4%	8,304	8,110	1,092	808	17	12	176	167
South Carolina	7,592	7,267	4.5%	7,051	6,925	394	191	0	0	146	151
Virginia	6,350	5,868	8.2%	4,983	4,560	1,138	1,078	25	35	203	195
West Virginia	5,576	5,353	4.2%	4,168	3,860	1,315	1,422	0	0	92	71
East South Central	27,356	26,862	1.8%	23,740	22,794	2,914	3,366	15	14	687	689
Alabama	10,983	10,307	6.6%	8,120	6,825	2,540	3,165	0	0	324	318
Kentucky	5,265	6,173	-14.7%	5,170	6,125	46	6	0	0	50	42
Mississippi	4,814	4,131	16.5%	4,345	3,787	302	177	0	0	166	167
Tennessee	6,294	6,251	0.7%	6,105	6,058	26	17	15	14	147	161
West South Central	56,086	56,263	-0.3%	17,543	18,119	32,794	31,700	57	76	5,693	6,368
Arkansas	4,952	4,030	22.9%	3,625	2,756	1,180	1,147	0	3	147	124
Louisiana	8,013	7,755	3.3%	5,090	4,385	733	700	NM	12	2,181	2,657
Oklahoma	6,472	6,972	-7.2%	3,003	3,957	3,390	2,940	0	0	79	76
Texas	36,649	37,506	-2.3%	5,824	7,022	27,491	26,913	49	60	3,286	3,511
Mountain	29,073	29,373	-1.0%	21,776	22,134	6,959	6,884	51	47	286	308
Arizona	8,671	8,708	-0.4%	7,072	6,905	1,585	1,790	14	13	0	0
Colorado	4,169	4,119	1.2%	3,041	3,115	1,119	994	3	5	6	5
Idaho	1,157	861	34.3%	626	460	494	350	5	3	32	48
Montana	2,074	2,274	-8.8%	617	667	1,454	1,605	0	0	3	3
Nevada	3,239	2,954	9.6%	2,265	2,080	935	845	11	9	28	20
New Mexico	2,739	3,319	-17.5%	1,974	2,587	755	723	10	10	0	0
Utah	3,129	3,358	-6.8%	2,730	2,962	310	292	9	6	81	97
Wyoming	3,894	3,778	3.1%	3,452	3,358	307	285	0	0	136	135
Pacific Contiguous	29,232	29,263	-0.1%	15,540	16,699	12,164	10,974	253	265	1,275	1,325
California	17,002	16,865	0.8%	6,457	6,613	9,203	8,843	242	257	1,100	1,151
Oregon	4,397	4,255	3.3%	2,837	3,295	1,503	910	7	5	51	44
Washington	7,833	8,143	-3.8%	6,246	6,791	1,459	1,220	3	3	124	129
Pacific Noncontiguous	1,375	1,385	-0.8%	923	890	364	385	56	71	33	39
Alaska	496	520	-4.5%	443	457	23	22	23	32	8	8
Hawaii	879	866	1.5%	480	433	340	363	33	39	25	31
U.S. Total	319,494	312,958	2.1%	174,320	171,134	132,775	128,952	1,027	1,021	11,372	11,851

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	84,668	90,931	-6.9%	1,932	2,037	79,339	85,632	1,052	1,080	2,345	2,182
Connecticut	28,048	30,199	-7.1%	67	60	27,243	29,376	314	344	424	420
Maine	9,217	9,829	-6.2%	0	0	7,366	8,115	177	175	1,674	1,539
Massachusetts	26,714	27,594	-3.2%	387	420	25,654	26,531	452	447	221	196
New Hampshire	14,446	15,970	-9.5%	704	806	13,660	15,074	56	62	26	28
Rhode Island	4,500	5,698	-21.0%	3	8	4,446	5,640	51	50	0	0
Vermont	1,743	1,642	6.1%	771	743	969	897	3	3	0	0
Middle Atlantic	334,829	357,963	-6.5%	28,620	29,943	300,525	322,424	1,895	1,801	3,788	3,795
New Jersey	62,602	65,827	-4.9%	143	134	61,276	64,562	571	548	613	582
New York	106,750	113,590	-6.0%	28,389	29,741	76,624	82,012	1,000	1,019	737	817
Pennsylvania	165,476	178,546	-7.3%	88	67	162,626	175,849	325	233	2,438	2,396
East North Central	479,015	490,169	-2.3%	204,562	208,113	263,570	272,543	1,545	1,623	9,338	7,890
Illinois	150,469	156,576	-3.9%	4,688	4,494	143,056	149,557	304	304	2,421	2,220
Indiana	82,432	84,690	-2.7%	70,197	72,008	8,053	9,768	221	236	3,961	2,678
Michigan	94,217	95,230	-1.1%	67,978	66,728	24,434	26,693	680	750	1,125	1,059
Ohio	98,434	98,857	-0.4%	19,465	21,977	78,177	76,087	237	194	555	598
Wisconsin	53,463	54,817	-2.5%	42,234	42,906	9,850	10,439	103	138	1,276	1,334
West North Central	281,021	271,145	3.6%	230,445	228,016	46,660	39,286	503	552	3,413	3,292
Iowa	46,673	44,680	4.5%	34,574	33,210	10,248	9,641	184	196	1,667	1,633
Kansas	42,587	39,784	7.0%	28,713	28,705	13,839	11,034	NM	0	34	45
Minnesota	48,714	48,956	-0.5%	38,135	39,772	9,166	7,872	154	171	1,258	1,142
Missouri	71,265	66,571	7.1%	68,388	63,862	2,691	2,502	148	168	38	39
Nebraska	29,727	30,573	-2.8%	25,454	27,486	3,967	2,778	16	17	290	291
North Dakota	33,422	31,072	7.6%	28,244	27,644	5,053	3,285	0	0	125	142
South Dakota	8,633	9,509	-9.2%	6,937	7,335	1,696	2,173	NM	0	0	0
South Atlantic	674,362	691,432	-2.5%	560,113	574,474	97,021	100,319	948	1,118	16,280	15,521
Delaware	6,641	7,792	-14.8%	21	70	5,379	6,626	6	5	1,235	1,090
District of Columbia	57	64	-11.4%	0	0	38	44	19	20	0	0
Florida	203,647	203,987	-0.2%	187,334	184,641	11,888	14,809	63	71	4,363	4,465
Georgia	108,891	113,608	-4.2%	92,108	98,368	12,515	11,313	6	7	4,262	3,921
Maryland	28,068	32,245	-13.0%	10	6	27,413	31,599	412	420	233	219
North Carolina	109,472	111,002	-1.4%	97,014	100,591	10,664	8,629	174	218	1,620	1,564
South Carolina	78,533	81,549	-3.7%	74,238	77,060	2,610	2,977	1	2	1,683	1,509
Virginia	77,651	78,088	-0.6%	61,883	64,123	13,518	11,558	267	374	1,982	2,033
West Virginia	61,404	63,096	-2.7%	47,504	49,613	12,996	12,764	0	0	903	719
East South Central	293,826	308,735	-4.8%	252,371	260,831	33,893	40,315	156	160	7,406	7,429
Alabama	116,668	119,881	-2.7%	84,893	82,213	28,227	34,134	0	0	3,547	3,533
Kentucky	60,681	67,631	-10.3%	59,860	66,618	328	498	0	0	493	515
Mississippi	51,391	55,126	-6.8%	44,679	47,987	5,105	5,516	3	0	1,605	1,623
Tennessee	65,085	66,097	-1.5%	62,939	64,012	232	167	152	160	1,761	1,757
West South Central	576,915	594,052	-2.9%	188,032	206,560	327,147	321,554	731	835	61,005	65,103
Arkansas	51,206	51,263	-0.1%	37,671	36,908	12,121	13,019	5	37	1,409	1,299
Louisiana	81,130	90,949	-10.8%	47,426	55,031	8,940	8,792	110	146	24,653	26,979
Oklahoma	64,560	66,160	-2.4%	33,327	38,281	30,561	27,137	0	0	671	742
Texas	380,020	385,680	-1.5%	69,608	76,339	275,524	272,605	616	653	34,271	36,083
Mountain	301,611	304,931	-1.1%	234,706	237,226	63,795	64,246	492	510	2,618	2,950
Arizona	89,670	93,405	-4.0%	75,958	76,232	13,571	17,022	140	150	0	0
Colorado	45,397	45,213	0.4%	34,899	35,199	10,403	9,926	35	27	61	61
Idaho	13,488	13,703	-1.6%	8,703	8,987	4,302	4,178	43	44	440	493
Montana	23,153	22,213	4.2%	9,604	8,419	13,525	13,769	0	0	24	25
Nevada	32,309	33,811	-4.4%	22,925	25,231	9,025	8,233	109	108	250	238
New Mexico	28,466	26,836	6.1%	21,198	20,225	7,172	6,507	95	103	1	1
Utah	30,326	31,474	-3.6%	26,275	28,189	3,274	2,232	71	77	706	976
Wyoming	38,802	38,277	1.4%	35,144	34,743	2,523	2,378	0	0	1,136	1,156
Pacific Contiguous	322,249	311,594	3.4%	202,298	187,338	104,574	108,563	2,454	2,484	12,922	13,209
California	176,367	167,619	5.2%	78,975	68,565	83,832	85,168	2,366	2,396	11,193	11,490
Oregon	48,912	49,617	-1.4%	37,449	36,940	10,903	12,143	61	58	499	477
Washington	96,970	94,358	2.8%	85,874	81,833	9,839	11,253	26	30	1,230	1,242
Pacific Noncontiguous	13,229	13,444	-1.6%	8,793	8,949	3,493	3,511	605	600	338	384
Alaska	4,952	5,136	-3.6%	4,370	4,578	198	209	289	262	96	88
Hawaii	8,277	8,309	-0.4%	4,423	4,371	3,295	3,302	316	339	242	296
U.S. Total	3,361,725	3,434,397	-2.1%	1,911,873	1,943,485	1,320,017	1,358,393	10,382	10,764	119,453	121,755

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	7	65	-89.0%	1	0	5	64	0	0	NM	1
Connecticut	-1	-2	-45.3%	0	0	-1	-2	0	0	0	0
Maine	7	5	33.4%	0	0	6	5	0	0	NM	1
Massachusetts	0	61	-100.0%	0	0	0	61	0	0	0	0
New Hampshire	1	0	395.3%	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	2,913	3,508	-17.0%	0	0	2,873	3,452	0	0	40	56
New Jersey	89	94	-5.6%	0	0	89	94	0	0	0	0
New York	19	82	-77.1%	0	0	0	57	0	0	19	26
Pennsylvania	2,805	3,332	-15.8%	0	0	2,784	3,301	0	0	21	30
East North Central	20,642	20,708	-0.3%	13,046	12,357	7,405	8,197	6	3	184	151
Illinois	4,453	4,637	-4.0%	204	118	4,103	4,408	NM	2	145	109
Indiana	5,991	5,581	7.3%	5,730	5,491	257	88	5	1	0	1
Michigan	2,944	2,871	2.5%	2,900	2,823	40	42	0	0	NM	7
Ohio	4,326	5,040	-14.2%	1,319	1,380	3,006	3,659	0	0	NM	1
Wisconsin	2,928	2,579	13.5%	2,894	2,545	0	0	0	0	35	34
West North Central	13,491	13,988	-3.6%	13,273	13,774	0	0	6	13	212	201
Iowa	1,377	2,156	-36.1%	1,238	2,022	0	0	5	5	134	129
Kansas	1,230	1,743	-29.4%	1,230	1,743	0	0	0	0	0	0
Minnesota	1,831	1,854	-1.3%	1,786	1,815	0	0	0	0	45	40
Missouri	5,161	3,982	29.6%	5,160	3,974	0	0	1	8	0	0
Nebraska	1,528	1,933	-21.0%	1,503	1,912	0	0	0	0	24	21
North Dakota	2,289	2,293	-0.2%	2,280	2,282	0	0	0	0	9	11
South Dakota	75	26	195.5%	75	26	0	0	0	0	0	0
South Atlantic	15,082	17,250	-12.6%	13,394	14,837	1,618	2,330	3	2	68	80
Delaware	2	0	--	0	0	2	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,322	3,556	-6.6%	3,281	3,505	29	37	0	0	12	13
Georgia	2,544	2,882	-11.8%	2,527	2,867	0	0	0	0	NM	16
Maryland	607	1,108	-45.2%	0	0	602	1,102	0	0	5	6
North Carolina	2,062	2,724	-24.3%	2,037	2,697	9	8	3	2	13	17
South Carolina	1,046	1,015	3.0%	1,043	1,006	0	0	0	0	3	9
Virginia	476	1,064	-55.3%	426	975	31	69	0	0	18	19
West Virginia	5,024	4,901	2.5%	4,080	3,786	944	1,115	0	0	0	0
East South Central	8,995	10,622	-15.3%	8,804	10,393	134	175	0	0	57	54
Alabama	2,457	3,120	-21.2%	2,454	3,119	0	0	0	0	NM	1
Kentucky	4,339	5,232	-17.1%	4,339	5,232	0	0	0	0	0	0
Mississippi	355	393	-9.6%	221	218	134	175	0	0	0	0
Tennessee	1,844	1,877	-1.8%	1,790	1,824	0	0	0	0	54	53
West South Central	14,470	17,477	-17.2%	5,976	8,487	8,471	8,957	0	0	23	33
Arkansas	1,755	2,368	-25.9%	1,425	1,914	327	451	0	0	3	3
Louisiana	803	751	7.0%	527	439	276	312	0	0	0	0
Oklahoma	1,397	2,329	-40.0%	1,206	2,106	171	194	0	0	20	30
Texas	10,514	12,029	-12.6%	2,818	4,028	7,696	8,001	0	0	0	0
Mountain	13,355	14,567	-8.3%	11,965	12,928	1,315	1,551	0	0	75	88
Arizona	2,684	2,947	-8.9%	2,684	2,947	0	0	0	0	0	0
Colorado	2,234	2,365	-5.5%	2,234	2,365	0	0	0	0	0	1
Idaho	NM	4	NM	0	0	0	0	0	0	NM	4
Montana	1,179	1,407	-16.2%	15	17	1,162	1,389	0	0	1	1
Nevada	57	134	-57.3%	-3	68	60	66	0	0	0	0
New Mexico	1,416	2,047	-30.8%	1,416	2,047	0	0	0	0	0	0
Utah	2,502	2,444	2.4%	2,435	2,363	28	33	0	0	38	48
Wyoming	3,281	3,218	2.0%	3,183	3,120	64	63	0	0	34	35
Pacific Contiguous	969	837	15.8%	183	153	758	655	0	0	29	29
California	26	27	-3.0%	0	0	0	0	0	0	26	27
Oregon	183	153	19.5%	183	153	0	0	0	0	0	0
Washington	761	658	15.7%	0	0	758	655	0	0	3	2
Pacific Noncontiguous	169	172	-1.4%	NM	21	137	141	9	9	0	0
Alaska	NM	46	NM	NM	21	17	15	9	9	0	0
Hawaii	119	126	-5.4%	0	0	119	126	0	0	0	0
U.S. Total	90,094	99,194	-9.2%	66,665	72,950	22,716	25,524	24	27	689	693

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	1,461	1,921	-24.0%	167	265	1,278	1,648	0	0	NM	8
Connecticut	95	89	5.7%	0	0	95	89	0	0	0	0
Maine	62	56	12.3%	0	0	47	48	0	0	NM	8
Massachusetts	1,136	1,511	-24.8%	0	0	1,136	1,511	0	0	0	0
New Hampshire	167	265	-36.8%	167	265	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	40,002	48,120	-16.9%	0	0	39,553	47,506	0	0	449	614
New Jersey	1,000	1,109	-9.9%	0	0	1,000	1,109	0	0	0	0
New York	636	1,661	-61.7%	0	0	422	1,377	0	0	214	284
Pennsylvania	38,367	45,350	-15.4%	0	0	38,131	45,020	0	0	236	330
East North Central	230,780	229,850	0.4%	139,658	137,585	89,216	90,425	54	68	1,851	1,772
Illinois	47,984	50,150	-4.3%	3,358	2,871	43,151	46,043	26	14	1,449	1,222
Indiana	59,817	60,631	-1.3%	57,650	57,669	2,139	2,918	28	39	0	5
Michigan	35,913	33,987	5.7%	35,503	33,531	370	370	0	15	40	71
Ohio	57,720	57,276	0.8%	14,153	16,072	43,556	41,093	0	0	11	111
Wisconsin	29,346	27,805	5.5%	28,994	27,441	0	0	0	0	352	363
West North Central	154,772	152,072	1.8%	152,566	149,889	1	0	89	109	2,117	2,074
Iowa	21,647	21,323	1.5%	20,274	19,854	0	0	69	73	1,304	1,396
Kansas	16,120	19,164	-15.9%	16,120	19,164	0	0	0	0	0	0
Minnesota	18,756	18,729	0.1%	18,314	18,427	0	0	1	2	441	300
Missouri	56,634	51,108	10.8%	56,615	51,073	1	0	18	35	0	0
Nebraska	17,819	18,022	-1.1%	17,529	17,732	0	0	0	0	290	290
North Dakota	22,159	22,055	0.5%	22,078	21,967	0	0	0	0	82	88
South Dakota	1,637	1,672	-2.1%	1,637	1,672	0	0	0	0	0	0
South Atlantic	179,899	202,571	-11.2%	160,898	177,023	18,323	24,512	41	42	637	994
Delaware	261	471	-44.6%	0	0	261	471	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	32,675	33,157	-1.5%	32,446	32,297	109	704	0	0	121	156
Georgia	28,124	32,724	-14.1%	27,990	32,544	0	0	0	0	134	180
Maryland	7,004	12,111	-42.2%	0	0	6,944	12,050	0	0	60	61
North Carolina	29,831	32,451	-8.1%	29,566	32,105	90	142	33	35	142	169
South Carolina	15,648	17,955	-12.8%	15,629	17,861	0	0	0	0	19	94
Virginia	9,243	14,242	-35.1%	8,692	13,483	382	531	8	6	161	222
West Virginia	57,112	59,459	-3.9%	46,575	48,732	10,537	10,614	0	0	0	112
East South Central	102,270	115,644	-11.6%	99,764	112,409	1,884	2,412	0	0	622	823
Alabama	26,634	28,738	-7.3%	26,598	28,671	0	0	0	0	36	67
Kentucky	48,489	56,109	-13.6%	48,489	56,109	0	0	0	0	0	0
Mississippi	3,919	4,530	-13.5%	2,036	2,118	1,884	2,412	0	0	0	0
Tennessee	23,228	26,267	-11.6%	22,642	25,511	0	0	0	0	587	756
West South Central	159,178	144,476	10.2%	76,960	73,380	81,939	70,749	0	0	279	348
Arkansas	21,650	19,361	11.8%	19,024	15,607	2,590	3,714	0	0	36	41
Louisiana	10,476	10,111	3.6%	6,136	6,805	4,341	3,306	0	0	0	0
Oklahoma	14,838	15,513	-4.3%	13,199	13,614	1,396	1,592	0	0	243	307
Texas	112,213	99,491	12.8%	38,602	37,353	73,611	62,137	0	0	0	0
Mountain	134,189	131,829	1.8%	120,827	117,946	12,812	13,088	0	0	550	795
Arizona	26,178	25,168	4.0%	26,178	25,168	0	0	0	0	0	0
Colorado	24,379	24,474	-0.4%	24,373	24,446	0	21	0	0	7	6
Idaho	22	23	-6.3%	0	0	0	0	0	0	22	23
Montana	11,314	11,621	-2.6%	225	207	11,084	11,409	0	0	4	5
Nevada	1,703	2,029	-16.1%	908	1,288	794	740	0	0	0	0
New Mexico	15,734	14,533	8.3%	15,734	14,533	0	0	0	0	0	0
Utah	21,472	21,092	1.8%	20,918	20,324	337	330	0	0	217	437
Wyoming	33,387	32,890	1.5%	32,491	31,980	596	587	0	0	301	324
Pacific Contiguous	5,749	5,237	9.8%	1,688	1,530	3,800	3,416	0	0	261	291
California	238	265	-10.2%	0	0	0	0	0	0	238	265
Oregon	1,688	1,530	10.4%	1,688	1,530	0	0	0	0	0	0
Washington	3,823	3,442	11.1%	0	0	3,800	3,416	0	0	22	26
Pacific Noncontiguous	1,599	1,742	-8.2%	218	252	1,291	1,399	89	88	0	3
Alaska	458	498	-7.9%	218	252	151	158	89	88	0	0
Hawaii	1,141	1,244	-8.3%	0	0	1,141	1,241	0	0	0	3
U.S. Total	1,009,899	1,033,461	-2.3%	752,747	770,277	250,096	255,156	273	307	6,782	7,722

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	13	61	-79.4%	3	2	7	55	2	3	NM	1
Connecticut	5	-1	-576.9%	NM	0	5	-1	NM	0	0	0
Maine	2	2	-30.9%	0	0	1	1	0	0	NM	1
Massachusetts	4	58	-93.7%	2	0	NM	55	1	3	0	0
New Hampshire	1	0	342.6%	1	0	NM	0	1	0	0	0
Rhode Island	NM	1	NM	0	1	NM	0	0	0	0	0
Vermont	1	0	48.1%	1	0	0	0	0	0	0	0
Middle Atlantic	34	28	19.4%	9	5	20	20	NM	0	4	3
New Jersey	1	1	-3.7%	NM	0	1	1	0	0	0	0
New York	20	9	113.5%	9	5	6	2	NM	0	3	2
Pennsylvania	13	18	-27.7%	0	0	12	17	0	0	NM	1
East North Central	42	29	48.2%	28	15	11	12	1	1	2	1
Illinois	4	4	-6.5%	1	1	3	3	NM	0	0	0
Indiana	13	6	119.5%	11	5	0	0	0	0	2	1
Michigan	9	6	53.6%	9	6	0	0	1	0	NM	0
Ohio	14	12	10.3%	5	3	8	8	0	1	0	0
Wisconsin	3	0	509.3%	3	0	0	0	0	0	NM	0
West North Central	39	34	13.8%	38	31	0	3	0	0	0	0
Iowa	21	23	-9.9%	20	23	NM	0	0	0	0	0
Kansas	5	2	117.1%	5	2	0	0	0	0	0	0
Minnesota	4	5	-17.0%	4	2	0	3	NM	0	0	0
Missouri	7	3	108.2%	7	3	0	0	0	0	0	0
Nebraska	NM	-1	NM	NM	-1	0	0	0	0	0	0
North Dakota	1	1	19.8%	1	1	0	0	0	0	0	0
South Dakota	0	1	-52.9%	0	1	0	0	NM	0	0	0
South Atlantic	148	113	30.5%	106	89	34	15	3	0	NM	9
Delaware	2	-2	-223.9%	0	0	2	-2	0	0	0	0
District of Columbia	0	0	-100.0%	0	0	0	0	0	0	0	0
Florida	49	56	-11.8%	47	52	NM	1	0	0	NM	2
Georgia	8	7	19.3%	4	4	NM	0	0	0	NM	3
Maryland	1	10	-88.2%	1	0	0	10	0	0	0	0
North Carolina	23	14	67.7%	21	13	NM	0	0	0	NM	0
South Carolina	5	5	8.3%	5	3	0	0	0	0	1	2
Virginia	51	12	332.8%	20	5	28	5	3	0	NM	1
West Virginia	8	11	-32.8%	8	11	0	0	0	0	0	0
East South Central	22	21	4.2%	19	18	1	0	0	0	NM	3
Alabama	3	3	14.7%	1	1	1	0	0	0	NM	2
Kentucky	7	9	-29.1%	7	9	0	0	0	0	0	0
Mississippi	1	2	-61.9%	1	1	0	0	0	0	0	1
Tennessee	11	6	73.9%	11	6	0	0	0	0	0	0
West South Central	14	7	95.1%	9	4	4	3	0	0	1	0
Arkansas	6	1	561.9%	4	1	2	0	0	0	0	0
Louisiana	2	1	86.8%	2	1	0	0	0	0	0	0
Oklahoma	1	1	29.2%	1	1	0	0	0	0	0	0
Texas	6	5	20.9%	3	2	2	2	0	0	0	0
Mountain	15	15	-2.8%	14	13	1	2	0	0	0	0
Arizona	5	4	30.9%	5	4	0	0	0	0	0	0
Colorado	1	1	93.0%	1	1	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	1	1	-40.0%	NM	0	0	1	0	0	0	0
Nevada	0	1	-33.5%	0	0	0	0	0	0	0	0
New Mexico	3	2	60.3%	3	2	0	0	0	0	0	0
Utah	3	4	-18.0%	3	3	0	0	0	0	0	0
Wyoming	2	4	-49.7%	2	4	0	0	0	0	0	0
Pacific Contiguous	8	8	2.3%	5	3	2	1	0	0	NM	3
California	4	6	-37.2%	3	3	0	0	0	0	0	3
Oregon	1	0	781.1%	1	0	0	0	0	0	0	0
Washington	3	2	63.0%	NM	0	2	1	0	0	NM	1
Pacific Noncontiguous	666	620	7.3%	521	478	123	122	0	0	22	20
Alaska	67	68	-1.4%	64	64	0	0	0	0	4	4
Hawaii	599	552	8.4%	457	414	123	122	0	0	18	16
U.S. Total	999	937	6.7%	752	658	203	232	7	5	37	41

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

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	233	435	-46.4%	34	46	159	348	34	33	7	9
Connecticut	38	74	-48.6%	5	5	31	65	1	2	0	2
Maine	39	103	-62.2%	0	0	31	94	2	2	6	7
Massachusetts	118	208	-43.5%	8	13	91	182	19	13	1	0
New Hampshire	25	32	-22.0%	15	18	NM	1	10	14	0	0
Rhode Island	10	15	-32.5%	3	8	NM	6	2	1	0	0
Vermont	3	2	26.9%	3	2	0	0	0	0	0	0
Middle Atlantic	487	861	-43.5%	135	294	305	522	11	10	35	35
New Jersey	30	61	-50.8%	0	1	29	60	0	1	NM	0
New York	277	570	-51.4%	135	293	103	239	8	8	31	30
Pennsylvania	180	230	-21.9%	0	1	172	223	3	1	4	5
East North Central	423	446	-5.1%	271	270	134	157	4	4	14	15
Illinois	42	59	-28.4%	7	8	34	50	NM	1	0	0
Indiana	98	95	3.4%	88	85	0	0	0	0	10	9
Michigan	96	104	-6.9%	92	100	0	0	3	2	2	2
Ohio	159	164	-3.2%	57	56	100	104	0	1	2	3
Wisconsin	28	25	12.0%	27	21	0	3	0	0	NM	1
West North Central	378	303	24.7%	371	294	4	6	1	1	1	2
Iowa	211	193	9.4%	210	192	1	1	0	0	0	0
Kansas	45	18	146.6%	45	18	0	0	0	0	0	0
Minnesota	35	27	31.1%	29	19	4	5	1	1	1	1
Missouri	47	57	-18.4%	47	57	0	0	0	0	0	0
Nebraska	6	-16	-138.7%	6	-16	0	0	0	0	0	0
North Dakota	30	22	37.0%	30	21	0	0	0	0	0	0
South Dakota	4	3	62.7%	4	3	0	0	NM	0	0	0
South Atlantic	1,482	1,898	-21.9%	1,172	1,401	230	416	27	5	53	76
Delaware	26	58	-55.0%	0	8	26	51	0	0	0	0
District of Columbia	0	1	-100.0%	0	0	0	0	0	1	0	0
Florida	570	653	-12.7%	552	625	2	7	0	0	16	22
Georgia	87	104	-15.8%	55	53	12	21	2	2	18	27
Maryland	91	159	-42.9%	1	-2	87	158	1	1	2	2
North Carolina	173	213	-18.7%	157	175	9	31	0	0	7	7
South Carolina	74	97	-24.2%	66	82	1	2	0	0	7	14
Virginia	362	513	-29.3%	245	365	91	142	24	1	3	5
West Virginia	98	100	-2.1%	97	96	1	4	0	0	0	0
East South Central	220	233	-5.6%	203	210	3	5	0	0	13	18
Alabama	33	40	-16.8%	20	22	3	5	0	0	10	13
Kentucky	81	75	6.7%	81	75	0	0	0	0	0	0
Mississippi	9	16	-42.3%	7	13	0	0	0	0	2	2
Tennessee	97	101	-4.7%	95	99	0	0	0	0	1	2
West South Central	124	126	-1.0%	65	81	54	39	0	1	4	5
Arkansas	41	29	40.9%	16	19	24	8	0	0	2	3
Louisiana	7	13	-43.5%	7	11	0	2	0	0	0	0
Oklahoma	11	16	-27.5%	10	15	0	0	0	0	1	1
Texas	65	68	-5.0%	32	36	31	30	0	1	1	2
Mountain	179	193	-7.1%	163	163	16	18	0	0	0	11
Arizona	46	43	5.5%	46	43	0	0	0	0	0	0
Colorado	7	5	39.7%	7	5	0	0	0	0	0	0
Idaho	0	0	-90.8%	0	0	0	0	0	0	0	0
Montana	12	15	-19.8%	NM	0	11	14	0	0	0	0
Nevada	8	11	-21.3%	5	8	3	3	0	0	0	0
New Mexico	37	43	-14.8%	37	43	0	0	0	0	0	0
Utah	33	27	24.0%	32	25	1	1	0	0	0	0
Wyoming	36	49	-26.1%	36	38	0	0	0	0	0	11
Pacific Contiguous	69	105	-34.4%	40	33	13	14	1	1	15	58
California	40	84	-52.7%	29	28	3	5	0	0	7	51
Oregon	10	3	189.9%	10	3	0	0	0	0	0	0
Washington	20	18	10.1%	2	2	10	9	0	0	7	7
Pacific Noncontiguous	6,362	6,172	3.1%	4,884	4,764	1,262	1,205	6	5	210	198
Alaska	747	607	23.1%	701	570	0	0	4	2	42	35
Hawaii	5,615	5,566	0.9%	4,183	4,195	1,262	1,205	2	3	169	163
U.S. Total	9,956	10,772	-7.6%	7,339	7,557	2,181	2,729	84	60	353	425

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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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	15	NM	0	0	0	0	0	0	NM	15
New Jersey	6	6	-4.5%	0	0	0	0	0	0	6	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	9	NM	0	0	0	0	0	0	NM	9
East North Central	161	162	-0.2%	103	48	NM	100	0	0	16	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	100	48	109.7%	85	37	0	0	0	0	16	10
Ohio	NM	101	NM	0	0	NM	100	0	0	0	1
Wisconsin	18	12	42.8%	18	11	0	0	0	0	0	1
West North Central	1	0	--	0	0	0	0	1	0	0	0
Iowa	1	0	--	0	0	0	0	1	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	99	95	4.1%	96	89	0	0	0	0	NM	6
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	96	89	7.9%	96	89	0	0	0	0	0	0
Georgia	NM	6	NM	0	0	0	0	0	0	NM	6
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	84	-100.0%	0	84	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	84	-100.0%	0	84	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	223	231	-3.2%	206	196	0	0	0	0	17	34
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	218	222	-2.0%	206	196	0	0	0	0	11	26
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	8	-34.5%	0	0	0	0	0	0	6	8
Mountain	41	41	-0.1%	0	0	41	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	41	41	-0.1%	0	0	41	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	8	-100.0%	0	0	0	0	0	0	0	8
California	0	8	-100.0%	0	0	0	0	0	0	0	8
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	535	635	-15.8%	405	418	84	141	1	0	45	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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	124	124	0.7%	0	0	0	1	0	0	124	123
New Jersey	62	52	18.8%	0	0	0	0	0	0	62	52
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	63	72	-12.5%	0	0	0	1	0	0	63	71
East North Central	1,441	2,005	-28.1%	807	1,050	510	799	0	0	124	156
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	497	-100.0%	0	497	0	0	0	0	0	0
Michigan	852	600	42.1%	728	483	0	3	0	0	124	114
Ohio	510	805	-36.7%	0	0	510	797	0	0	0	8
Wisconsin	79	103	-23.4%	79	70	0	0	0	0	0	34
West North Central	29	23	25.3%	0	0	0	0	7	4	23	19
Iowa	29	23	25.3%	0	0	0	0	7	4	23	19
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	904	1,997	-54.7%	786	1,917	0	0	0	0	118	80
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	786	1,917	-59.0%	786	1,917	0	0	0	0	0	0
Georgia	118	80	46.9%	0	0	0	0	0	0	118	80
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	427	972	-56.1%	427	972	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	427	972	-56.1%	427	972	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,814	3,977	-4.1%	3,553	3,679	0	0	0	0	261	298
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,728	3,879	-3.9%	3,553	3,679	0	0	0	0	175	200
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	86	98	-12.5%	0	0	0	0	0	0	86	98
Mountain	369	361	2.2%	0	0	369	361	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	369	361	2.2%	0	0	369	361	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	69	-100.0%	0	0	0	0	0	0	0	69
California	0	69	-100.0%	0	0	0	0	0	0	0	69
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	7,109	9,528	-25.4%	5,573	7,618	879	1,161	7	4	650	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 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	3,787	3,663	3.4%	NM	15	3,568	3,495	81	70	96	84
Connecticut	1,369	1,426	-4.0%	4	4	1,289	1,352	34	33	43	38
Maine	NM	279	NM	0	0	NM	248	3	2	31	29
Massachusetts	1,577	1,221	29.2%	NM	11	1,483	1,166	40	29	20	15
New Hampshire	227	334	-31.9%	3	0	220	330	1	2	3	2
Rhode Island	NM	403	NM	0	0	NM	399	5	4	0	0
Vermont	0	0	-93.1%	0	0	0	0	0	0	0	0
Middle Atlantic	12,509	12,812	-2.4%	565	775	11,684	11,792	88	81	172	164
New Jersey	2,831	3,708	-23.6%	NM	23	2,765	3,639	15	16	32	30
New York	3,753	3,898	-3.7%	543	752	3,117	3,060	63	56	29	30
Pennsylvania	5,925	5,206	13.8%	1	1	5,802	5,093	10	9	111	104
East North Central	8,923	7,687	16.1%	3,698	3,053	4,850	4,350	115	118	260	167
Illinois	1,354	1,415	-4.3%	NM	107	1,069	1,216	27	31	60	60
Indiana	1,578	1,518	4.0%	1,310	1,308	134	147	14	18	120	45
Michigan	2,394	2,056	16.4%	713	648	1,594	1,338	47	46	41	24
Ohio	2,205	2,054	7.3%	196	449	1,974	1,574	21	17	14	14
Wisconsin	1,391	644	116.1%	1,281	540	80	75	5	5	25	24
West North Central	1,901	1,329	43.0%	1,597	1,187	NM	83	26	19	58	40
Iowa	338	157	114.8%	285	129	0	0	9	6	44	21
Kansas	282	111	155.6%	281	108	0	0	0	0	NM	3
Minnesota	646	438	47.7%	535	343	97	80	7	6	8	9
Missouri	NM	348	NM	NM	335	NM	3	10	7	3	4
Nebraska	36	43	-16.2%	36	43	0	0	0	0	0	0
North Dakota	92	175	-47.4%	91	172	0	0	0	0	1	3
South Dakota	50	58	-13.7%	50	58	0	0	0	0	0	0
South Atlantic	27,298	24,427	11.8%	22,145	19,875	4,729	4,137	42	36	382	379
Delaware	550	762	-27.7%	3	6	463	657	0	0	84	98
District of Columbia	0	2	-100.0%	0	0	0	0	0	2	0	0
Florida	14,335	13,253	8.2%	13,419	12,306	795	832	2	3	120	112
Georgia	4,200	3,661	14.7%	3,050	3,028	1,106	580	0	0	44	53
Maryland	463	396	16.9%	0	0	417	360	38	30	8	6
North Carolina	3,087	2,364	30.6%	2,657	1,859	418	493	1	1	11	11
South Carolina	1,436	1,406	2.1%	1,077	1,232	348	167	0	0	11	7
Virginia	2,965	2,387	24.2%	1,922	1,434	988	899	1	1	55	53
West Virginia	261	196	33.2%	17	8	196	148	0	0	49	40
East South Central	9,000	9,443	-4.7%	6,112	6,123	2,700	3,135	15	14	173	171
Alabama	4,183	4,392	-4.8%	1,593	1,186	2,502	3,130	0	0	88	77
Kentucky	533	602	-11.5%	NM	579	44	5	0	0	21	19
Mississippi	3,467	3,616	-4.1%	3,280	3,581	153	1	0	0	35	34
Tennessee	817	834	-2.0%	773	778	1	0	15	14	29	42
West South Central	24,935	24,945	0.0%	7,666	7,309	12,289	12,095	47	67	4,932	5,474
Arkansas	1,414	1,228	15.1%	554	523	833	683	0	3	27	19
Louisiana	4,920	4,834	1.8%	2,767	2,368	356	290	NM	12	1,790	2,164
Oklahoma	2,354	2,344	0.4%	1,463	1,477	863	854	0	0	28	13
Texas	16,248	16,538	-1.8%	2,884	2,941	10,238	10,267	40	52	3,086	3,278
Mountain	7,503	7,327	2.4%	5,505	4,923	1,823	2,250	39	35	136	119
Arizona	2,880	2,749	4.8%	1,715	1,276	1,153	1,462	12	11	0	0
Colorado	845	764	10.6%	722	649	121	112	0	2	2	1
Idaho	313	193	62.0%	166	50	135	132	3	2	8	9
Montana	41	36	13.4%	28	28	12	7	0	0	1	0
Nevada	2,347	2,110	11.3%	2,122	1,894	192	190	5	5	28	20
New Mexico	720	835	-13.8%	519	496	191	330	10	10	0	0
Utah	291	577	-49.6%	226	526	19	17	8	5	38	29
Wyoming	66	64	3.6%	6	5	0	0	0	0	60	59
Pacific Contiguous	10,864	11,064	-1.8%	3,929	4,253	5,895	5,708	176	178	864	925
California	8,374	9,298	-9.9%	2,599	3,196	4,758	5,015	170	174	848	914
Oregon	1,480	1,140	29.9%	601	665	869	468	4	3	7	5
Washington	1,009	626	61.2%	729	393	269	226	2	1	9	6
Pacific Noncontiguous	264	200	32.2%	260	196	0	0	0	0	4	4
Alaska	264	200	32.2%	260	196	0	0	0	0	4	4
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	106,983	102,898	4.0%	51,519	47,710	47,758	47,044	628	617	7,077	7,527

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	40,028	46,532	-14.0%	239	307	38,051	44,489	772	815	966	921
Connecticut	12,614	15,095	-16.4%	38	39	11,838	14,296	313	341	424	418
Maine	1,772	3,192	-44.5%	0	0	1,445	2,885	25	25	302	282
Massachusetts	18,324	18,755	-2.3%	NM	232	17,559	17,944	382	386	214	193
New Hampshire	3,134	4,005	-21.8%	31	36	3,068	3,923	8	19	26	28
Rhode Island	4,183	5,484	-23.7%	0	0	4,140	5,441	43	43	0	0
Vermont	1	2	-13.8%	1	1	0	0	1	1	0	0
Middle Atlantic	122,519	144,345	-15.1%	8,341	10,894	111,631	130,847	883	920	1,665	1,684
New Jersey	30,890	38,201	-19.1%	191	237	30,235	37,501	161	163	303	300
New York	41,255	49,086	-16.0%	8,144	10,647	32,230	37,494	611	656	270	290
Pennsylvania	50,374	57,057	-11.7%	6	10	49,166	55,852	111	100	1,092	1,095
East North Central	82,292	95,250	-13.6%	34,794	41,507	43,933	50,953	1,164	1,230	2,401	1,561
Illinois	12,245	15,389	-20.4%	1,260	1,542	10,120	12,975	272	284	593	589
Indiana	14,872	16,439	-9.5%	11,715	13,132	1,964	2,758	160	163	1,033	386
Michigan	21,658	25,251	-14.2%	7,061	8,907	13,759	15,596	451	492	386	256
Ohio	22,447	24,392	-8.0%	4,941	5,615	17,136	18,521	224	183	146	73
Wisconsin	11,070	13,778	-19.7%	9,817	12,310	954	1,104	57	109	243	256
West North Central	16,777	20,067	-16.4%	14,006	16,501	2,063	2,873	235	263	473	430
Iowa	2,820	2,707	4.2%	2,448	2,469	NM	0	70	77	302	161
Kansas	2,282	1,771	28.9%	2,252	1,725	0	0	0	0	30	45
Minnesota	5,954	8,070	-26.2%	4,877	6,472	894	1,332	82	97	99	170
Missouri	3,697	5,332	-30.7%	2,411	3,667	1,168	1,541	82	88	36	36
Nebraska	609	457	33.4%	608	455	0	0	1	1	0	1
North Dakota	765	921	-17.0%	759	904	0	0	0	0	6	17
South Dakota	650	809	-19.6%	650	809	0	0	0	0	0	0
South Atlantic	281,196	277,794	1.2%	229,270	224,623	47,630	49,405	452	465	3,845	3,301
Delaware	5,844	6,927	-15.6%	14	57	5,006	6,028	0	0	824	842
District of Columbia	19	20	-2.9%	0	0	0	0	19	20	0	0
Florida	138,196	137,288	0.7%	128,823	125,261	8,137	10,788	21	29	1,215	1,210
Georgia	44,823	45,532	-1.6%	34,121	35,018	10,165	10,149	0	0	537	364
Maryland	5,396	5,294	1.9%	0	0	4,926	4,827	396	400	74	66
North Carolina	32,787	33,184	-1.2%	28,288	28,595	4,379	4,488	9	8	110	92
South Carolina	13,900	13,800	0.7%	11,674	11,165	2,119	2,585	0	0	108	49
Virginia	38,840	34,658	12.1%	26,208	24,399	12,073	9,731	7	7	552	521
West Virginia	1,390	1,091	27.4%	142	127	824	808	0	0	424	156
East South Central	99,792	109,189	-8.6%	66,401	69,828	31,323	37,473	150	158	1,919	1,730
Alabama	43,849	48,979	-10.5%	15,072	14,193	27,845	33,897	0	0	932	889
Kentucky	7,583	7,082	7.1%	7,064	6,387	314	478	0	0	205	216
Mississippi	39,588	43,377	-8.7%	36,074	39,932	3,153	3,096	3	0	358	349
Tennessee	8,772	9,752	-10.0%	8,191	9,316	11	2	147	158	423	276
West South Central	264,340	301,658	-12.4%	76,858	95,371	134,409	149,508	657	762	52,415	56,018
Arkansas	14,939	15,701	-4.9%	5,354	6,294	9,348	9,148	0	33	237	225
Louisiana	48,983	57,150	-14.3%	25,490	30,522	3,514	4,434	110	146	19,868	22,049
Oklahoma	27,034	31,378	-13.8%	16,580	21,070	10,252	10,165	0	0	202	143
Texas	173,384	197,429	-12.2%	29,434	37,485	111,295	125,761	547	583	32,108	33,601
Mountain	75,431	87,060	-13.4%	57,212	63,845	16,613	21,619	358	387	1,248	1,210
Arizona	25,797	31,373	-17.8%	16,490	17,668	9,187	13,575	121	130	0	0
Colorado	10,706	11,007	-2.7%	9,019	9,359	1,670	1,630	0	2	17	17
Idaho	2,376	2,965	-19.9%	1,294	1,641	946	1,173	33	35	103	115
Montana	397	418	-5.2%	300	332	94	83	0	0	3	4
Nevada	22,655	24,514	-7.6%	20,577	22,391	1,780	1,832	49	55	248	236
New Mexico	7,845	8,597	-8.7%	4,992	5,328	2,760	3,167	92	101	1	1
Utah	5,018	7,550	-33.5%	4,412	6,972	176	158	62	64	367	356
Wyoming	638	637	0.0%	127	154	1	1	0	0	509	482
Pacific Contiguous	89,584	103,589	-13.5%	33,936	38,937	45,235	53,943	1,619	1,611	8,794	9,097
California	72,981	81,809	-10.8%	25,126	27,467	37,627	43,808	1,573	1,563	8,656	8,972
Oregon	9,306	12,382	-24.8%	3,922	5,993	5,290	6,304	34	31	61	55
Washington	7,296	9,397	-22.4%	4,888	5,478	2,319	3,831	12	17	77	71
Pacific Noncontiguous	2,059	2,517	-18.2%	2,003	2,465	0	0	2	1	54	52
Alaska	2,059	2,517	-18.2%	2,003	2,465	0	0	2	1	54	52
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,074,019	1,188,002	-9.6%	523,059	564,276	470,888	541,109	6,294	6,611	73,779	76,005

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	55	52	6.4%	0	0	0	0	0	0	55	51
New Jersey	17	15	9.4%	0	0	0	0	0	0	17	15
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	38	36	5.1%	0	0	0	0	0	0	38	36
East North Central	378	311	21.4%	10	7	138	111	0	0	230	194
Illinois	14	17	-16.0%	0	0	0	2	0	0	14	16
Indiana	204	171	19.6%	NM	0	0	0	0	0	204	171
Michigan	106	95	11.1%	9	6	97	89	0	0	0	0
Ohio	53	28	92.2%	0	0	41	20	0	0	12	7
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	3	53.9%	0	0	0	0	0	0	4	3
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	3	53.9%	0	0	0	0	0	0	4	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	28	20	38.0%	0	0	0	0	0	0	28	20
Delaware	24	17	38.4%	0	0	0	0	0	0	24	17
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-37.1%	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	3	2	51.3%	0	0	0	0	0	0	3	2
East South Central	NM	4	NM	0	0	0	0	0	0	NM	4
Alabama	NM	3	NM	0	0	0	0	0	0	NM	3
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	1	-93.1%	0	0	0	0	0	0	0	1
West South Central	343	333	2.8%	0	0	134	82	0	0	208	251
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	131	161	-18.6%	0	0	0	0	0	0	131	161
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	212	172	22.7%	0	0	134	82	0	0	77	90
Mountain	40	41	-3.2%	0	0	1	0	0	0	39	41
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	2	5	-56.2%	0	0	0	0	0	0	2	5
Wyoming	36	36	1.7%	0	0	0	0	0	0	36	36
Pacific Contiguous	160	146	9.1%	0	0	32	34	0	0	128	112
California	128	112	14.1%	0	0	0	0	0	0	128	112
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	32	34	-7.2%	0	0	32	34	0	0	0	0
Pacific Noncontiguous	4	3	39.0%	0	0	0	0	0	0	4	3
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	4	3	39.0%	0	0	0	0	0	0	4	3
U.S. Total	1,011	913	10.7%	10	7	306	228	0	0	696	679

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

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	683	578	18.2%	0	0	0	0	0	0	683	578
New Jersey	183	169	8.3%	0	0	0	0	0	0	183	169
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	500	409	22.3%	0	0	0	0	0	0	500	409
East North Central	4,843	4,041	19.9%	122	111	1,802	1,717	0	0	2,918	2,213
Illinois	153	171	-10.4%	0	0	0	6	0	0	153	166
Indiana	2,633	1,915	37.5%	13	9	0	0	0	0	2,620	1,907
Michigan	1,344	1,317	2.0%	109	102	1,235	1,215	0	0	0	0
Ohio	712	637	11.8%	0	0	567	496	0	0	145	141
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	34	32	4.6%	0	0	0	0	0	0	34	32
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	34	32	4.6%	0	0	0	0	0	0	34	32
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	431	260	66.1%	0	0	0	0	0	0	431	260
Delaware	398	235	69.1%	0	0	0	0	0	0	398	235
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4	4	4.6%	0	0	0	0	0	0	4	4
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	29	20	44.3%	0	0	0	0	0	0	29	20
East South Central	22	32	-29.0%	0	0	0	0	0	0	22	32
Alabama	11	19	-42.3%	0	0	0	0	0	0	11	19
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	11	12	-8.2%	0	0	0	0	0	0	11	12
West South Central	3,973	3,880	2.4%	0	0	1,210	1,071	0	0	2,762	2,808
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,829	1,786	2.4%	0	0	0	0	0	0	1,829	1,786
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,144	2,094	2.4%	0	0	1,210	1,071	0	0	934	1,023
Mountain	320	335	-4.5%	0	0	14	7	0	0	306	328
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	14	6	115.5%	0	0	14	6	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	14	43	-68.0%	0	0	0	0	0	0	14	43
Wyoming	293	285	2.6%	0	0	0	0	0	0	293	285
Pacific Contiguous	1,467	1,555	-5.7%	0	0	293	337	0	0	1,173	1,218
California	1,173	1,218	-3.7%	0	0	0	0	0	0	1,173	1,218
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	293	337	-13.0%	0	0	293	337	0	0	0	0
Pacific Noncontiguous	42	44	-5.0%	0	0	0	0	0	0	42	44
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	44	-5.0%	0	0	0	0	0	0	42	44
U.S. Total	11,815	10,757	9.8%	122	111	3,320	3,133	0	0	8,373	7,513

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. 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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	2,394	2,960	-19.1%	0	0	2,394	2,960	0	0	0	0
Connecticut	975	1,542	-36.8%	0	0	975	1,542	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	490	490	0.0%	0	0	490	490	0	0	0	0
New Hampshire	929	928	0.1%	0	0	929	928	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	13,048	12,589	3.7%	0	0	13,048	12,589	0	0	0	0
New Jersey	2,533	2,385	6.2%	0	0	2,533	2,385	0	0	0	0
New York	3,982	3,828	4.0%	0	0	3,982	3,828	0	0	0	0
Pennsylvania	6,534	6,377	2.5%	0	0	6,534	6,377	0	0	0	0
East North Central	12,500	12,545	-0.4%	1,732	1,704	10,768	10,841	0	0	0	0
Illinois	8,032	7,758	3.5%	0	0	8,032	7,758	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,333	2,299	1.5%	1,732	1,704	601	595	0	0	0	0
Ohio	1,612	1,596	1.1%	0	0	1,612	1,596	0	0	0	0
Wisconsin	523	892	-41.4%	0	0	523	892	0	0	0	0
West North Central	3,104	2,209	40.5%	2,722	2,189	382	21	0	0	0	0
Iowa	382	21	NM	0	0	382	21	0	0	0	0
Kansas	907	-5	NM	907	-5	0	0	0	0	0	0
Minnesota	1,061	1,046	1.4%	1,061	1,046	0	0	0	0	0	0
Missouri	156	906	-82.8%	156	906	0	0	0	0	0	0
Nebraska	599	242	147.2%	599	242	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,858	15,943	5.7%	15,541	14,638	1,317	1,305	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	2,069	1,704	21.5%	2,069	1,704	0	0	0	0	0	0
Georgia	2,939	3,068	-4.2%	2,939	3,068	0	0	0	0	0	0
Maryland	1,317	1,305	0.9%	0	0	1,317	1,305	0	0	0	0
North Carolina	3,243	3,231	0.4%	3,243	3,231	0	0	0	0	0	0
South Carolina	4,816	4,611	4.4%	4,816	4,611	0	0	0	0	0	0
Virginia	2,474	2,024	22.2%	2,474	2,024	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,371	5,384	36.9%	7,371	5,384	0	0	0	0	0	0
Alabama	3,454	2,287	51.0%	3,454	2,287	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	844	-14	NM	844	-14	0	0	0	0	0	0
Tennessee	3,073	3,111	-1.2%	3,073	3,111	0	0	0	0	0	0
West South Central	6,015	4,461	34.8%	2,967	1,459	3,047	3,002	0	0	0	0
Arkansas	1,378	78	NM	1,378	78	0	0	0	0	0	0
Louisiana	1,589	1,381	15.1%	1,589	1,381	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,047	3,002	1.5%	0	0	3,047	3,002	0	0	0	0
Mountain	2,163	2,196	-1.5%	2,163	2,196	0	0	0	0	0	0
Arizona	2,163	2,196	-1.5%	2,163	2,196	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	2,542	2,446	3.9%	2,542	2,446	0	0	0	0	0	0
California	1,684	1,605	4.9%	1,684	1,605	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	858	841	2.0%	858	841	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	65,995	60,733	8.7%	35,038	30,016	30,957	30,717	0	0	0	0

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	26,083	27,001	-3.4%	0	0	26,083	27,001	0	0	0	0
Connecticut	13,872	13,519	2.6%	0	0	13,872	13,519	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	4,053	4,551	-10.9%	0	0	4,053	4,551	0	0	0	0
New Hampshire	8,158	8,930	-8.6%	0	0	8,158	8,930	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	131,616	127,418	3.3%	0	0	131,616	127,418	0	0	0	0
New Jersey	28,238	24,338	16.0%	0	0	28,238	24,338	0	0	0	0
New York	34,819	34,577	0.7%	0	0	34,819	34,577	0	0	0	0
Pennsylvania	68,558	68,503	0.1%	0	0	68,558	68,503	0	0	0	0
East North Central	129,738	130,895	-0.9%	22,191	21,495	107,547	109,400	0	0	0	0
Illinois	80,269	81,543	-1.6%	0	0	80,269	81,543	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	27,088	27,354	-1.0%	22,191	21,495	4,897	5,859	0	0	0	0
Ohio	14,485	13,612	6.4%	0	0	14,485	13,612	0	0	0	0
Wisconsin	7,896	8,386	-5.8%	0	0	7,896	8,386	0	0	0	0
West North Central	38,515	38,440	0.2%	34,194	34,614	4,321	3,825	0	0	0	0
Iowa	4,321	3,825	12.9%	0	0	4,321	3,825	0	0	0	0
Kansas	8,852	7,088	24.9%	8,852	7,088	0	0	0	0	0	0
Minnesota	11,612	11,551	0.5%	11,612	11,551	0	0	0	0	0	0
Missouri	7,987	7,623	4.8%	7,987	7,623	0	0	0	0	0	0
Nebraska	5,744	8,353	-31.2%	5,744	8,353	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	169,533	171,246	-1.0%	157,065	159,061	12,468	12,185	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	23,958	24,171	-0.9%	23,958	24,171	0	0	0	0	0	0
Georgia	28,104	28,419	-1.1%	28,104	28,419	0	0	0	0	0	0
Maryland	12,468	12,185	2.3%	0	0	12,468	12,185	0	0	0	0
North Carolina	34,711	35,458	-2.1%	34,711	35,458	0	0	0	0	0	0
South Carolina	45,092	46,454	-2.9%	45,092	46,454	0	0	0	0	0	0
Virginia	25,200	24,559	2.6%	25,200	24,559	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	68,177	62,722	8.7%	68,177	62,722	0	0	0	0	0	0
Alabama	35,421	33,011	7.3%	35,421	33,011	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	6,562	5,924	10.8%	6,562	5,924	0	0	0	0	0	0
Tennessee	26,194	23,788	10.1%	26,194	23,788	0	0	0	0	0	0
West South Central	53,702	60,652	-11.5%	22,204	25,678	31,498	34,974	0	0	0	0
Arkansas	9,964	11,663	-14.6%	9,964	11,663	0	0	0	0	0	0
Louisiana	12,240	14,015	-12.7%	12,240	14,015	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	31,498	34,974	-9.9%	0	0	31,498	34,974	0	0	0	0
Mountain	26,722	26,734	0.0%	26,722	26,734	0	0	0	0	0	0
Arizona	26,722	26,734	0.0%	26,722	26,734	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	21,011	23,746	-11.5%	21,011	23,746	0	0	0	0	0	0
California	14,591	15,592	-6.4%	14,591	15,592	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6,420	8,154	-21.3%	6,420	8,154	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	665,097	668,853	-0.6%	351,565	354,050	313,532	314,803	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	487	259	88.0%	61	16	400	226	0	0	26	17
Connecticut	15	11	42.4%	NM	1	14	10	0	0	0	0
Maine	244	183	33.8%	0	0	218	165	0	0	26	17
Massachusetts	56	24	131.2%	NM	5	45	19	0	0	0	0
New Hampshire	87	35	150.4%	22	8	65	26	0	0	0	0
Rhode Island	0	0	-100.0%	0	0	0	0	0	0	0	0
Vermont	84	7	NM	28	2	57	4	0	0	0	0
Middle Atlantic	2,441	2,191	11.4%	1,963	1,803	475	383	0	0	3	4
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	2,260	2,079	8.7%	1,960	1,800	297	275	0	0	3	4
Pennsylvania	179	111	61.9%	3	3	177	108	0	0	0	0
East North Central	323	448	-27.9%	275	389	33	41	0	0	15	18
Illinois	9	10	-9.3%	3	4	6	6	0	0	0	0
Indiana	35	38	-9.3%	35	38	0	0	0	0	0	0
Michigan	85	96	-10.6%	78	87	NM	7	0	0	NM	2
Ohio	40	48	-15.8%	26	31	14	17	0	0	0	0
Wisconsin	153	255	-40.1%	134	228	NM	11	0	0	13	16
West North Central	649	756	-14.2%	621	716	15	26	0	0	13	14
Iowa	47	59	-19.2%	47	58	1	1	0	0	0	0
Kansas	3	2	38.4%	0	0	3	2	0	0	0	0
Minnesota	70	133	-47.1%	45	95	NM	23	0	0	13	14
Missouri	93	55	67.6%	93	55	0	0	0	0	0	0
Nebraska	83	55	52.5%	83	55	0	0	0	0	0	0
North Dakota	109	122	-10.7%	109	122	0	0	0	0	0	0
South Dakota	244	331	-26.4%	244	331	0	0	0	0	0	0
South Atlantic	978	924	5.9%	848	787	88	106	1	1	42	30
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14	11	25.9%	14	11	0	0	0	0	0	0
Georgia	202	187	7.9%	200	186	NM	0	0	0	1	1
Maryland	49	63	-22.0%	0	0	49	63	0	0	0	0
North Carolina	315	297	5.9%	311	294	NM	3	1	1	NM	0
South Carolina	160	106	51.8%	157	103	NM	2	0	0	0	0
Virginia	107	147	-27.0%	102	139	5	7	0	0	0	1
West Virginia	131	113	15.6%	64	55	27	30	0	0	40	28
East South Central	1,475	851	73.3%	1,474	850	NM	1	0	0	0	0
Alabama	614	232	165.1%	614	232	0	0	0	0	0	0
Kentucky	343	207	66.0%	342	206	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	517	413	25.4%	517	413	0	0	0	0	0	0
West South Central	664	568	16.9%	560	474	103	94	NM	0	0	0
Arkansas	270	241	12.0%	264	238	6	3	0	0	0	0
Louisiana	94	90	4.6%	0	0	94	90	0	0	0	0
Oklahoma	201	211	-4.7%	201	211	0	0	0	0	0	0
Texas	99	26	285.5%	95	25	3	1	NM	0	0	0
Mountain	1,875	1,808	3.7%	1,801	1,753	72	53	1	1	0	0
Arizona	456	445	2.5%	456	445	0	0	0	0	0	0
Colorado	98	123	-20.5%	84	109	NM	13	1	1	0	0
Idaho	505	438	15.3%	459	410	46	28	0	0	0	0
Montana	559	613	-8.9%	551	604	NM	9	0	0	0	0
Nevada	144	115	26.2%	140	112	NM	3	0	0	0	0
New Mexico	NM	8	NM	NM	8	0	0	0	0	0	0
Utah	44	44	0.3%	43	43	0	1	0	0	0	0
Wyoming	55	22	151.4%	55	22	1	0	0	0	0	0
Pacific Contiguous	8,214	9,339	-12.0%	8,059	9,194	155	144	0	1	0	0
California	2,037	1,718	18.6%	1,923	1,621	114	96	0	1	0	0
Oregon	1,962	2,430	-19.3%	1,946	2,411	NM	19	0	0	0	0
Washington	4,215	5,191	-18.8%	4,190	5,162	25	29	0	0	0	0
Pacific Noncontiguous	103	195	-47.4%	86	166	4	7	NM	18	NM	4
Alaska	95	183	-48.2%	85	164	0	0	NM	18	0	0
Hawaii	8	13	-35.1%	2	2	4	7	0	0	NM	4
U.S. Total	17,208	17,339	-0.8%	15,748	16,149	1,345	1,080	NM	21	102	88

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	5,790	5,265	10.0%	772	691	4,699	4,294	4	3	315	278
Connecticut	223	191	17.0%	20	14	203	176	0	0	0	0
Maine	2,769	2,580	7.3%	0	0	2,459	2,303	0	0	310	277
Massachusetts	696	576	20.8%	146	114	541	458	4	3	5	1
New Hampshire	1,086	968	12.2%	253	234	833	734	0	0	0	0
Rhode Island	2	2	7.0%	0	0	2	2	0	0	0	0
Vermont	1,014	948	6.9%	352	328	662	620	0	0	0	0
Middle Atlantic	26,335	24,370	8.1%	20,550	19,255	5,722	5,063	5	4	58	47
New Jersey	NM	8	NM	0	0	NM	8	0	0	0	0
New York	24,009	22,355	7.4%	20,469	19,199	3,478	3,105	5	4	58	47
Pennsylvania	2,303	2,007	14.7%	82	57	2,221	1,950	0	0	0	0
East North Central	4,753	4,544	4.6%	4,149	3,968	437	408	1	1	165	167
Illinois	108	112	-3.2%	34	43	73	67	1	1	0	0
Indiana	389	351	10.6%	389	351	0	0	0	0	0	0
Michigan	1,375	1,380	-0.4%	1,258	1,264	94	93	0	0	24	23
Ohio	461	406	13.5%	296	260	165	146	0	0	0	0
Wisconsin	2,419	2,295	5.4%	2,173	2,049	105	101	0	0	141	144
West North Central	10,030	9,466	6.0%	9,673	9,146	222	212	0	0	135	108
Iowa	776	793	-2.1%	770	786	6	7	0	0	0	0
Kansas	25	26	-4.3%	0	0	25	26	0	0	0	0
Minnesota	1,068	995	7.4%	743	708	190	178	0	0	135	108
Missouri	1,186	1,199	-1.1%	1,186	1,199	0	0	0	0	0	0
Nebraska	1,358	741	83.3%	1,358	741	0	0	0	0	0	0
North Dakota	1,747	1,646	6.1%	1,747	1,646	0	0	0	0	0	0
South Dakota	3,870	4,066	-4.8%	3,870	4,066	0	0	0	0	0	0
South Atlantic	13,791	13,263	4.0%	11,098	11,167	2,214	1,629	10	14	470	453
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	164	158	4.0%	164	158	0	0	0	0	0	0
Georgia	2,689	2,994	-10.2%	2,670	2,974	7	7	0	0	12	14
Maryland	1,732	1,194	45.0%	0	0	1,732	1,194	0	0	0	0
North Carolina	4,011	4,125	-2.8%	3,957	4,071	39	41	9	13	NM	0
South Carolina	2,333	2,066	12.9%	2,289	2,016	43	48	1	2	0	0
Virginia	1,392	1,365	1.9%	1,328	1,291	63	66	0	0	0	8
West Virginia	1,471	1,362	8.0%	690	658	330	273	0	0	451	431
East South Central	17,865	15,188	17.6%	17,857	15,180	NM	8	0	0	0	0
Alabama	7,758	6,317	22.8%	7,758	6,317	0	0	0	0	0	0
Kentucky	3,686	2,956	24.7%	3,677	2,948	NM	8	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6,421	5,914	8.6%	6,421	5,914	0	0	0	0	0	0
West South Central	8,107	8,051	0.7%	7,014	6,996	1,087	1,055	NM	0	0	0
Arkansas	3,334	3,327	0.2%	3,291	3,286	43	41	0	0	0	0
Louisiana	1,017	984	3.4%	0	0	1,017	984	0	0	0	0
Oklahoma	2,400	2,487	-3.5%	2,400	2,487	0	0	0	0	0	0
Texas	1,356	1,253	8.2%	1,323	1,224	27	30	NM	0	0	0
Mountain	28,131	26,958	4.4%	26,971	25,838	1,147	1,109	13	11	0	0
Arizona	5,996	6,106	-1.8%	5,996	6,106	0	0	0	0	0	0
Colorado	1,754	1,752	0.1%	1,517	1,555	223	187	13	11	0	0
Idaho	8,137	8,097	0.5%	7,400	7,337	738	760	0	0	0	0
Montana	9,023	7,806	15.6%	8,898	7,696	125	110	0	0	0	0
Nevada	1,417	1,517	-6.6%	1,372	1,482	45	35	0	0	0	0
New Mexico	215	124	72.6%	215	124	0	0	0	0	0	0
Utah	701	638	9.8%	693	630	8	9	0	0	0	0
Wyoming	889	916	-3.0%	881	907	8	9	0	0	0	0
Pacific Contiguous	141,320	117,962	19.8%	138,471	115,931	2,836	2,020	13	11	0	0
California	39,047	24,985	56.3%	36,855	23,548	2,179	1,427	13	11	0	0
Oregon	31,054	28,432	9.2%	30,806	28,204	249	228	0	0	0	0
Washington	71,219	64,545	10.3%	70,811	64,179	408	366	0	0	0	0
Pacific Noncontiguous	1,577	1,410	11.9%	1,372	1,217	14	27	159	136	31	30
Alaska	1,524	1,339	13.8%	1,364	1,203	0	0	159	136	0	0
Hawaii	54	71	-24.4%	8	14	14	27	0	0	31	30
U.S. Total	257,699	226,476	13.8%	237,927	209,389	18,387	15,825	210	179	1,174	1,083

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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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	1,032	820	25.9%	85	73	849	659	19	16	80	72
Connecticut	76	65	16.5%	0	0	76	65	0	0	0	0
Maine	444	321	38.2%	0	0	356	241	9	9	79	72
Massachusetts	209	172	21.3%	8	6	196	162	5	4	0	0
New Hampshire	194	175	10.5%	30	31	160	141	5	3	0	0
Rhode Island	29	18	57.5%	0	0	28	18	1	1	0	0
Vermont	80	67	19.2%	48	35	32	32	0	0	0	0
Middle Atlantic	1,376	1,193	15.3%	9	6	1,229	1,075	65	49	73	63
New Jersey	195	153	27.8%	9	6	155	121	30	25	NM	0
New York	622	531	17.2%	0	0	584	495	21	20	17	16
Pennsylvania	559	509	9.7%	0	0	491	459	14	4	54	47
East North Central	3,027	2,477	22.2%	383	285	2,490	2,039	18	18	137	135
Illinois	1,162	992	17.1%	3	3	1,159	989	NM	0	0	0
Indiana	573	513	11.8%	34	25	532	481	2	2	6	5
Michigan	751	590	27.4%	202	162	484	355	10	13	55	60
Ohio	212	159	33.1%	NM	2	182	131	1	1	26	25
Wisconsin	330	224	47.4%	142	94	133	82	4	3	50	45
West North Central	7,526	5,830	29.1%	2,469	1,966	4,990	3,782	15	13	52	70
Iowa	2,149	1,818	18.2%	1,388	1,160	755	648	3	4	3	6
Kansas	1,816	1,401	29.6%	195	75	1,620	1,326	NM	0	0	0
Minnesota	1,343	1,085	23.8%	299	273	991	745	5	4	48	63
Missouri	204	115	77.8%	3	4	196	107	5	3	0	0
Nebraska	532	345	54.2%	24	25	507	318	1	2	0	0
North Dakota	1,164	731	59.2%	460	342	704	389	0	0	NM	0
South Dakota	319	334	-4.8%	100	88	218	247	0	0	0	0
South Atlantic	2,732	1,960	39.4%	290	133	1,518	965	31	34	893	827
Delaware	11	11	6.4%	NM	1	9	8	NM	1	NM	1
District of Columbia	5	4	20.6%	0	0	5	4	0	0	0	0
Florida	482	368	31.0%	57	16	255	203	4	4	165	145
Georgia	588	477	23.1%	23	17	224	153	NM	1	340	307
Maryland	125	115	8.0%	NM	1	116	102	2	2	6	11
North Carolina	803	406	97.8%	36	15	633	269	12	9	122	112
South Carolina	209	175	19.7%	37	23	43	21	0	0	130	130
Virginia	362	274	32.3%	135	60	86	75	12	18	130	121
West Virginia	148	130	13.7%	0	0	148	130	0	0	0	0
East South Central	544	520	4.6%	12	10	78	55	NM	0	453	455
Alabama	271	271	-0.2%	4	0	37	35	0	0	231	236
Kentucky	37	35	7.0%	9	10	0	1	0	0	28	24
Mississippi	147	133	10.8%	0	0	15	1	0	0	132	131
Tennessee	89	81	9.7%	0	0	25	17	NM	0	63	63
West South Central	9,344	8,121	15.1%	167	199	8,734	7,459	9	8	434	455
Arkansas	128	112	14.9%	NM	0	12	10	0	0	116	101
Louisiana	223	254	-12.1%	0	0	7	8	0	0	216	246
Oklahoma	2,527	2,096	20.5%	143	172	2,354	1,892	0	0	30	32
Texas	6,466	5,660	14.3%	24	26	6,362	5,549	8	8	72	76
Mountain	4,064	3,336	21.8%	363	333	3,673	2,960	12	11	16	31
Arizona	492	370	33.0%	58	40	432	328	NM	2	0	0
Colorado	1,015	880	15.3%	29	9	984	868	NM	2	0	0
Idaho	329	221	49.0%	NM	1	313	190	1	1	14	29
Montana	223	152	47.1%	23	16	198	134	0	0	2	2
Nevada	687	593	15.7%	3	4	677	585	6	5	0	0
New Mexico	587	426	37.6%	22	33	564	393	NM	0	0	0
Utah	285	265	7.7%	22	22	262	241	1	1	0	0
Wyoming	447	429	4.2%	205	207	242	222	0	0	0	0
Pacific Contiguous	6,328	5,328	18.8%	734	638	5,300	4,405	77	86	217	199
California	4,611	4,015	14.9%	160	178	4,318	3,715	72	82	61	39
Oregon	768	529	45.1%	106	66	615	421	3	2	44	40
Washington	949	784	21.1%	469	394	367	269	NM	1	112	120
Pacific Noncontiguous	138	165	-16.6%	17	18	100	116	21	24	NM	7
Alaska	20	24	-13.0%	11	13	6	7	4	4	NM	0
Hawaii	117	141	-17.2%	7	6	94	109	17	20	0	7
U.S. Total	36,112	29,749	21.4%	4,530	3,661	28,961	23,514	266	260	2,354	2,314

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

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	9,919	8,644	14.8%	720	728	8,098	6,890	170	157	931	868
Connecticut	762	746	2.2%	3	2	759	743	0	0	0	0
Maine	4,246	3,587	18.4%	0	0	3,238	2,644	78	75	930	867
Massachusetts	2,047	1,697	20.7%	64	61	1,935	1,590	47	45	1	1
New Hampshire	1,834	1,728	6.1%	238	254	1,559	1,445	37	29	0	0
Rhode Island	305	197	55.2%	0	0	299	191	6	5	0	0
Vermont	725	690	5.0%	415	411	308	277	2	2	0	0
Middle Atlantic	12,131	11,255	7.8%	85	73	10,709	9,985	619	539	718	658
New Jersey	1,834	1,562	17.4%	85	73	1,449	1,219	290	266	9	5
New York	5,369	4,995	7.5%	0	0	5,008	4,647	196	182	164	166
Pennsylvania	4,929	4,698	4.9%	0	0	4,252	4,120	133	91	544	487
East North Central	24,584	22,846	7.6%	3,122	2,794	19,921	18,466	195	185	1,346	1,402
Illinois	9,455	8,793	7.5%	29	30	9,423	8,760	NM	4	0	0
Indiana	4,370	4,438	-1.5%	343	265	3,950	4,092	17	17	60	63
Michigan	6,239	5,626	10.9%	1,598	1,480	3,989	3,445	115	123	536	578
Ohio	1,941	1,605	21.0%	21	19	1,663	1,323	12	11	244	252
Wisconsin	2,579	2,384	8.2%	1,131	1,000	896	846	46	30	506	508
West North Central	60,006	50,148	19.7%	19,352	17,176	39,926	32,254	143	147	584	571
Iowa	16,866	15,805	6.7%	10,872	9,909	5,920	5,808	38	42	36	45
Kansas	15,259	11,717	30.2%	1,444	710	13,814	11,007	NM	0	0	0
Minnesota	10,959	9,248	18.5%	2,421	2,445	7,954	6,240	41	44	542	519
Missouri	1,607	1,044	53.9%	34	35	1,523	961	48	45	3	3
Nebraska	4,191	3,017	38.9%	209	222	3,967	2,778	15	16	0	0
North Dakota	8,652	6,358	36.1%	3,596	3,068	5,053	3,285	0	0	4	5
South Dakota	2,472	2,959	-16.4%	776	785	1,696	2,173	0	0	0	0
South Atlantic	26,611	21,057	26.4%	2,864	1,907	14,396	10,164	311	421	9,040	8,565
Delaware	112	100	11.4%	7	6	86	76	6	5	13	13
District of Columbia	38	44	-13.4%	0	0	38	44	0	0	0	0
Florida	4,737	4,013	18.1%	605	213	2,412	2,096	42	42	1,679	1,661
Georgia	5,934	4,383	35.4%	242	75	2,331	1,135	NM	5	3,357	3,168
Maryland	1,112	1,033	7.6%	9	8	990	916	16	19	97	90
North Carolina	7,481	4,986	50.0%	335	188	5,913	3,602	123	162	1,111	1,035
South Carolina	2,327	1,996	16.6%	367	338	442	339	0	0	1,518	1,319
Virginia	3,567	3,428	4.1%	1,299	1,079	881	883	122	188	1,266	1,278
West Virginia	1,304	1,075	21.3%	0	0	1,304	1,075	0	0	0	0
East South Central	5,601	5,309	5.5%	113	85	674	417	5	3	4,809	4,805
Alabama	2,960	2,777	6.6%	23	0	378	231	0	0	2,559	2,546
Kentucky	384	395	-2.8%	90	85	6	11	0	0	288	298
Mississippi	1,311	1,276	2.7%	0	0	68	9	0	0	1,243	1,267
Tennessee	947	861	9.9%	0	0	222	165	5	3	720	693
West South Central	82,750	69,967	18.3%	1,460	1,410	76,855	64,059	68	72	4,367	4,426
Arkansas	1,254	1,140	10.1%	NM	1	116	108	5	4	1,131	1,026
Louisiana	2,332	2,400	-2.8%	0	0	68	67	0	0	2,265	2,333
Oklahoma	20,342	16,815	21.0%	1,240	1,168	18,878	15,361	0	0	224	286
Texas	58,821	49,613	18.6%	218	241	57,794	48,522	63	69	747	782
Mountain	36,014	31,019	16.1%	3,076	2,832	32,535	27,753	121	112	282	322
Arizona	4,944	3,906	26.6%	539	438	4,385	3,447	19	21	0	0
Colorado	8,783	8,181	7.4%	261	85	8,497	8,079	22	14	3	3
Idaho	2,898	2,563	13.1%	9	9	2,619	2,244	10	9	260	300
Montana	1,748	1,709	2.3%	180	183	1,550	1,509	0	0	18	17
Nevada	6,500	5,722	13.6%	36	44	6,403	5,623	59	53	2	2
New Mexico	4,635	3,539	31.0%	220	196	4,412	3,341	NM	2	0	0
Utah	2,980	1,955	52.5%	220	212	2,751	1,729	8	14	0	0
Wyoming	3,527	3,446	2.4%	1,609	1,664	1,918	1,781	0	0	0	0
Pacific Contiguous	61,792	58,693	5.3%	6,687	7,143	52,160	48,600	821	862	2,123	2,088
California	47,122	43,041	9.5%	1,913	1,911	43,867	39,781	780	822	562	527
Oregon	6,821	7,236	-5.7%	1,024	1,211	5,332	5,577	27	27	438	422
Washington	7,848	8,416	-6.7%	3,750	4,022	2,960	3,242	14	13	1,123	1,139
Pacific Noncontiguous	1,287	1,291	-0.4%	169	160	923	869	194	207	NM	56
Alaska	166	177	-5.9%	85	91	47	50	34	35	NM	0
Hawaii	1,120	1,115	0.5%	84	69	876	819	160	171	0	55
U.S. Total	320,696	280,231	14.4%	37,649	34,307	256,197	219,458	2,648	2,705	24,201	23,761

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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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	-25	-38	-34.3%	0	0	-25	-38	0	0	0	0
Connecticut	0	0	-18.0%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-25	-38	-34.2%	0	0	-25	-38	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	-100	-103	-2.8%	-50	-51	-50	-52	0	0	0	0
New Jersey	-6	-12	-50.4%	-6	-12	0	0	0	0	0	0
New York	-44	-39	13.4%	-44	-39	0	0	0	0	0	0
Pennsylvania	-50	-52	-3.4%	0	0	-50	-52	0	0	0	0
East North Central	-48	-71	-33.4%	-48	-71	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	-48	-71	-33.4%	-48	-71	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	-9	11	-187.6%	-9	11	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	-9	11	-187.6%	-9	11	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-264	-270	-2.0%	-264	-270	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	-85	-138	-38.2%	-85	-138	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	-84	-54	54.8%	-84	-54	0	0	0	0	0	0
Virginia	-95	-78	22.5%	-95	-78	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-58	-74	-20.7%	-58	-74	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	-58	-74	-20.7%	-58	-74	0	0	0	0	0	0
West South Central	-10	-9	9.4%	-10	-9	0	0	0	0	0	0
Arkansas	0	1	-66.6%	0	1	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-10	-10	4.7%	-10	-10	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-38	-20	91.9%	-38	-20	0	0	0	0	0	0
Arizona	-9	-2	284.7%	-9	-2	0	0	0	0	0	0
Colorado	-29	-17	67.0%	-29	-17	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	89	13	574.1%	89	13	0	0	0	0	0	0
California	90	12	667.9%	90	12	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	2	-115.0%	0	2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-463	-561	-17.4%	-388	-471	-75	-90	0	0	0	0

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	-358	-416	-14.1%	0	0	-358	-416	0	0	0	0
Connecticut	-2	2	-221.3%	0	0	-2	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-355	-418	-14.9%	0	0	-355	-418	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	-997	-1,033	-3.4%	-491	-573	-506	-460	0	0	0	0
New Jersey	-133	-176	-24.3%	-133	-176	0	0	0	0	0	0
New York	-358	-397	-9.8%	-358	-397	0	0	0	0	0	0
Pennsylvania	-506	-460	9.9%	0	0	-506	-460	0	0	0	0
East North Central	-563	-646	-13.0%	-563	-646	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	-563	-646	-13.0%	-563	-646	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	105	200	-47.3%	105	200	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	105	200	-47.3%	105	200	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-3,040	-2,625	15.8%	-3,040	-2,625	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	-1,074	-716	50.0%	-1,074	-716	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	-878	-856	2.5%	-878	-856	0	0	0	0	0	0
Virginia	-1,089	-1,054	3.3%	-1,089	-1,054	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-603	-616	-2.1%	-603	-616	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	-603	-616	-2.1%	-603	-616	0	0	0	0	0	0
West South Central	-83	-35	139.9%	-83	-35	0	0	0	0	0	0
Arkansas	20	38	-48.1%	20	38	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-103	-73	40.9%	-103	-73	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-291	-176	65.8%	-291	-176	0	0	0	0	0	0
Arizona	-13	76	-116.8%	-13	76	0	0	0	0	0	0
Colorado	-278	-251	10.7%	-278	-251	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	469	21	NM	469	21	0	0	0	0	0	0
California	465	23	NM	465	23	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4	-1	-357.7%	4	-1	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-5,361	-5,326	0.6%	-4,497	-4,450	-863	-876	0	0	0	0

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	135	145	-7.4%	0	0	119	130	8	8	8	7
Connecticut	45	46	-3.7%	0	0	45	46	0	0	0	0
Maine	25	24	2.5%	0	0	9	9	8	8	8	7
Massachusetts	61	71	-13.5%	0	0	61	71	0	0	0	0
New Hampshire	4	4	-0.6%	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	195	190	2.2%	0	0	150	154	40	30	5	6
New Jersey	49	53	-6.9%	0	0	32	35	12	12	5	6
New York	78	81	-3.5%	0	0	59	62	19	19	0	0
Pennsylvania	67	57	18.8%	0	0	59	57	8	0	0	0
East North Central	70	77	-9.2%	1	-5	8	19	11	14	50	49
Illinois	23	34	-34.5%	0	0	-2	12	0	0	24	23
Indiana	22	22	-0.2%	0	0	0	0	1	1	21	21
Michigan	21	22	-5.2%	0	0	10	8	10	12	1	2
Ohio	0	-5	-109.2%	0	-6	0	-1	0	0	1	1
Wisconsin	4	3	6.8%	1	1	0	0	0	0	NM	2
West North Central	36	43	-16.8%	16	20	12	14	3	3	5	6
Iowa	0	1	-100.0%	0	0	0	0	0	0	0	1
Kansas	0	0	NM	0	0	0	0	0	0	0	0
Minnesota	32	37	-15.6%	13	15	12	14	3	3	4	5
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	4	NM	NM	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	345	363	-5.0%	0	0	166	183	10	16	169	165
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	232	229	1.2%	0	0	107	100	0	0	126	129
Georgia	12	5	123.7%	0	0	0	0	0	0	12	5
Maryland	31	27	15.0%	0	0	31	27	0	0	0	0
North Carolina	57	61	-6.5%	0	0	28	34	0	0	28	27
South Carolina	3	3	-13.8%	0	0	0	1	0	0	3	3
Virginia	10	39	-73.5%	0	0	0	22	10	16	0	0
West Virginia	0	-1	-136.8%	0	0	0	-1	0	0	0	0
East South Central	8	6	21.7%	7	4	0	0	0	0	1	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	4	49.2%	7	4	0	0	0	0	0	0
Mississippi	0	1	-100.0%	0	0	0	0	0	0	0	1
Tennessee	1	1	6.1%	0	0	0	0	0	0	1	1
West South Central	88	129	-32.0%	0	0	11	9	0	0	77	120
Arkansas	0	1	-85.5%	0	0	0	0	0	0	0	1
Louisiana	32	61	-46.9%	0	0	0	0	0	0	32	61
Oklahoma	3	1	112.6%	0	0	2	0	0	0	1	1
Texas	52	66	-21.0%	0	0	8	8	0	0	44	58
Mountain	55	62	-10.8%	3	6	32	26	0	0	20	29
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	18.4%	0	0	1	1	0	0	4	3
Idaho	8	5	45.6%	0	0	0	0	0	0	8	5
Montana	30	25	20.7%	0	0	30	25	0	0	0	0
Nevada	3	2	85.9%	3	2	0	0	0	0	0	0
New Mexico	0	0	-371.8%	0	0	0	0	0	0	0	0
Utah	3	20	-87.2%	0	5	0	0	0	0	3	15
Wyoming	6	5	23.1%	0	0	0	0	0	0	6	5
Pacific Contiguous	59	75	-21.2%	0	0	22	26	0	0	37	49
California	49	66	-24.6%	0	0	12	17	0	0	37	49
Oregon	4	3	5.9%	0	0	4	3	0	0	0	0
Washington	6	6	2.4%	0	0	6	6	0	0	0	0
Pacific Noncontiguous	31	30	2.4%	15	11	0	0	16	19	0	0
Alaska	0	0	-32.3%	0	0	0	0	0	0	0	0
Hawaii	31	30	2.1%	15	11	0	0	16	19	0	0
U.S. Total	1,021	1,121	-9.0%	41	36	519	562	89	90	372	433

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

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

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	1,512	1,549	-2.4%	0	0	1,329	1,379	73	72	110	98
Connecticut	448	484	-7.5%	0	0	448	484	0	0	0	0
Maine	329	311	5.8%	0	0	146	141	73	72	110	98
Massachusetts	695	713	-2.6%	0	0	695	713	0	0	0	0
New Hampshire	41	41	-1.1%	0	0	41	41	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	1,929	1,926	0.2%	0	0	1,497	1,542	378	328	55	56
New Jersey	476	501	-5.2%	0	0	301	327	119	118	55	56
New York	744	743	0.1%	0	0	563	574	180	169	0	0
Pennsylvania	710	682	4.1%	0	0	632	641	78	41	0	0
East North Central	725	939	-22.8%	11	-19	69	219	127	135	518	604
Illinois	211	357	-41.0%	0	0	-15	113	0	0	226	244
Indiana	254	324	-21.6%	0	0	0	0	16	17	239	307
Michigan	214	257	-16.7%	0	11	90	111	111	118	13	16
Ohio	-1	-40	-98.3%	-3	-45	-5	-5	0	0	7	10
Wisconsin	46	41	13.1%	14	15	0	0	0	0	33	26
West North Central	374	395	-5.3%	176	196	124	116	28	28	45	56
Iowa	2	12	-79.6%	0	0	0	0	0	0	2	12
Kansas	4	0	NM	0	0	0	0	0	0	4	0
Minnesota	330	338	-2.2%	139	150	124	116	28	28	39	44
Missouri	2	8	-71.6%	2	8	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	35	37	-5.8%	35	37	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,554	3,971	-10.5%	0	0	1,760	2,007	107	171	1,687	1,794
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	2,555	2,626	-2.7%	0	0	1,228	1,214	0	0	1,327	1,412
Georgia	86	87	-1.8%	0	0	0	0	0	0	86	87
Maryland	266	269	-1.4%	0	0	266	269	0	0	0	0
North Carolina	478	586	-18.4%	0	0	234	325	0	0	244	261
South Carolina	36	37	-3.0%	0	0	5	3	0	0	31	34
Virginia	134	376	-64.4%	0	0	27	206	107	171	0	0
West Virginia	0	-11	-101.2%	0	0	0	-11	0	0	0	0
East South Central	53	63	-15.4%	32	42	0	0	0	0	21	21
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	32	42	-22.1%	32	42	0	0	0	0	0	0
Mississippi	2	4	-55.3%	0	0	0	0	0	0	2	4
Tennessee	19	17	10.6%	0	0	0	0	0	0	19	17
West South Central	1,010	1,300	-22.3%	0	0	93	100	0	0	917	1,200
Arkansas	4	4	-7.3%	0	0	0	0	0	0	4	4
Louisiana	516	611	-15.6%	0	0	0	0	0	0	516	611
Oklahoma	37	24	50.2%	0	0	36	18	0	0	1	6
Texas	453	660	-31.4%	0	0	57	82	0	0	396	579
Mountain	547	618	-11.5%	26	44	289	290	0	0	232	284
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	47	45	6.1%	0	0	13	10	0	0	35	35
Idaho	55	54	2.0%	0	0	0	0	0	0	55	54
Montana	277	276	0.3%	0	0	277	276	0	0	0	0
Nevada	26	18	48.9%	26	18	0	0	0	0	0	0
New Mexico	0	0	-313.0%	0	0	0	0	0	0	0	0
Utah	109	170	-36.2%	0	27	0	4	0	0	108	140
Wyoming	33	54	-38.7%	0	0	0	0	0	0	33	54
Pacific Contiguous	788	616	28.0%	-4	-4	236	232	0	0	556	387
California	709	532	33.4%	-3	-3	156	148	0	0	556	387
Oregon	32	34	-5.1%	0	0	33	34	0	0	0	0
Washington	47	50	-6.5%	0	0	47	51	0	0	0	0
Pacific Noncontiguous	303	267	13.3%	146	92	2	11	154	165	0	0
Alaska	-2	-2	18.8%	-2	-2	0	0	0	0	0	0
Hawaii	305	269	13.3%	149	94	2	11	154	165	0	0
U.S. Total	10,795	11,644	-7.3%	388	350	5,400	5,895	866	898	4,141	4,500

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	327	227	43.9%	23	19	302	206	3	2	0	0
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0
Maine	218	144	51.6%	0	0	218	144	0	0	0	0
Massachusetts	23	20	14.8%	6	5	15	13	2	2	0	0
New Hampshire	43	35	23.0%	0	0	43	35	0	0	0	0
Rhode Island	15	3	391.8%	0	0	14	2	1	1	0	0
Vermont	28	25	11.5%	17	14	11	11	0	0	0	0
Middle Atlantic	759	666	13.9%	0	0	759	666	0	0	0	0
New Jersey	NM	2	NM	0	0	NM	2	0	0	0	0
New York	413	327	26.5%	0	0	413	326	0	0	0	0
Pennsylvania	344	338	1.8%	0	0	344	338	0	0	0	0
East North Central	2,470	2,034	21.5%	288	241	2,175	1,787	NM	1	7	5
Illinois	1,118	960	16.4%	NM	1	1,116	959	NM	0	0	0
Indiana	506	460	9.9%	0	0	506	460	0	0	0	0
Michigan	522	392	33.1%	193	161	329	231	0	0	0	0
Ohio	142	98	44.9%	NM	1	135	93	0	0	NM	4
Wisconsin	182	122	48.9%	93	78	89	44	0	0	1	1
West North Central	7,241	5,612	29.0%	2,422	1,919	4,814	3,691	NM	3	0	0
Iowa	2,131	1,796	18.6%	1,385	1,158	745	637	0	0	0	0
Kansas	1,811	1,396	29.7%	195	75	1,615	1,321	NM	0	0	0
Minnesota	1,109	920	20.5%	264	238	842	679	NM	3	0	0
Missouri	187	100	87.1%	0	0	187	100	0	0	0	0
Nebraska	522	336	55.7%	17	18	505	318	0	0	0	0
North Dakota	1,163	731	59.2%	460	342	704	389	0	0	0	0
South Dakota	318	334	-4.8%	100	88	218	247	0	0	0	0
South Atlantic	239	181	32.3%	0	0	238	180	0	0	0	0
Delaware	0	0	-21.1%	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	52	50	4.6%	0	0	52	50	0	0	0	0
North Carolina	38	0	--	0	0	38	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	148	130	13.7%	0	0	148	130	0	0	0	0
East South Central	NM	3	NM	0	0	NM	3	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	3	NM	0	0	NM	3	0	0	0	0
West South Central	8,628	7,513	14.8%	166	198	8,457	7,311	5	5	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,495	2,062	21.0%	142	172	2,353	1,890	0	0	0	0
Texas	6,133	5,451	12.5%	24	26	6,104	5,420	5	5	0	0
Mountain	2,466	2,041	20.8%	257	233	2,209	1,807	NM	0	0	0
Arizona	47	51	-8.2%	0	0	47	51	0	0	0	0
Colorado	918	789	16.4%	29	9	890	779	0	0	0	0
Idaho	250	167	50.3%	0	0	250	167	0	0	0	0
Montana	218	150	45.3%	23	16	195	134	0	0	0	0
Nevada	30	42	-28.3%	0	0	30	42	0	0	0	0
New Mexico	486	324	49.8%	0	0	485	324	NM	0	0	0
Utah	69	89	-22.5%	0	0	69	89	0	0	0	0
Wyoming	447	429	4.2%	205	207	242	222	0	0	0	0
Pacific Contiguous	2,580	1,966	31.3%	565	455	2,014	1,510	1	0	0	0
California	1,160	935	24.1%	39	46	1,120	888	1	0	0	0
Oregon	638	425	50.3%	100	60	538	364	0	0	0	0
Washington	782	606	29.0%	426	348	356	258	0	0	0	0
Pacific Noncontiguous	75	92	-18.2%	11	13	65	80	0	0	0	0
Alaska	17	19	-15.2%	11	13	6	7	0	0	0	0
Hawaii	59	73	-19.0%	0	0	59	73	0	0	0	0
U.S. Total	24,789	20,335	21.9%	3,731	3,077	21,036	17,241	14	12	8	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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	2,673	2,068	29.3%	183	202	2,465	1,843	23	22	1	1
Connecticut	NM	10	NM	0	0	NM	10	0	0	0	0
Maine	1,790	1,278	40.0%	0	0	1,790	1,278	0	0	0	0
Massachusetts	181	173	4.3%	46	48	116	108	17	16	1	1
New Hampshire	344	349	-1.5%	0	0	344	349	0	0	0	0
Rhode Island	121	13	866.0%	0	0	115	7	6	5	0	0
Vermont	227	244	-7.3%	137	154	90	91	0	0	0	0
Middle Atlantic	6,069	5,695	6.6%	0	0	6,068	5,694	0	0	1	1
New Jersey	16	16	2.1%	0	0	16	16	0	0	0	0
New York	3,291	3,031	8.6%	0	0	3,290	3,029	0	0	1	1
Pennsylvania	2,762	2,649	4.3%	0	0	2,762	2,649	0	0	0	0
East North Central	19,174	17,918	7.0%	2,301	2,237	16,818	15,629	7	6	47	45
Illinois	8,994	8,363	7.5%	10	10	8,981	8,350	NM	4	0	0
Indiana	3,701	3,885	-4.7%	0	0	3,700	3,884	1	1	0	0
Michigan	4,029	3,557	13.3%	1,528	1,473	2,501	2,084	0	0	0	0
Ohio	1,233	945	30.4%	NM	8	1,181	896	3	2	41	39
Wisconsin	1,217	1,168	4.2%	755	746	456	416	0	0	6	6
West North Central	57,210	48,098	18.9%	18,877	16,700	38,306	31,373	27	25	0	0
Iowa	16,702	15,600	7.1%	10,847	9,892	5,852	5,705	3	3	0	0
Kansas	15,209	11,667	30.4%	1,444	710	13,763	10,957	NM	0	0	0
Minnesota	8,647	7,699	12.3%	2,070	2,095	6,555	5,581	22	22	0	0
Missouri	1,438	896	60.5%	0	0	1,438	896	0	0	0	0
Nebraska	4,096	2,925	40.0%	145	150	3,951	2,775	0	0	0	0
North Dakota	8,648	6,353	36.1%	3,596	3,068	5,053	3,285	0	0	0	0
South Dakota	2,470	2,958	-16.5%	776	785	1,694	2,173	0	0	0	0
South Atlantic	2,116	1,475	43.5%	0	0	2,112	1,471	4	4	0	0
Delaware	4	4	0.2%	0	0	0	0	4	4	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	414	397	4.4%	0	0	414	397	0	0	0	0
North Carolina	394	0	--	0	0	394	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	1,304	1,075	21.3%	0	0	1,304	1,075	0	0	0	0
East South Central	28	31	-9.7%	0	0	28	31	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	28	31	-9.7%	0	0	28	31	0	0	0	0
West South Central	75,791	64,154	18.1%	1,449	1,385	74,308	62,729	34	40	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	20,101	16,512	21.7%	1,236	1,163	18,866	15,349	0	0	0	0
Texas	55,690	47,642	16.9%	213	222	55,442	47,380	34	40	0	0
Mountain	20,277	19,122	6.0%	2,048	1,933	18,218	17,183	NM	3	3	3
Arizona	508	448	13.4%	0	0	508	448	0	0	0	0
Colorado	7,819	7,619	2.6%	259	85	7,552	7,530	NM	1	3	3
Idaho	2,005	2,045	-1.9%	0	0	2,005	2,045	0	0	0	0
Montana	1,714	1,692	1.3%	180	183	1,534	1,509	0	0	0	0
Nevada	309	285	8.3%	0	0	309	285	0	0	0	0
New Mexico	3,620	2,924	23.8%	0	0	3,617	2,922	NM	2	0	0
Utah	775	662	17.0%	0	0	775	662	0	0	0	0
Wyoming	3,527	3,446	2.4%	1,609	1,664	1,918	1,781	0	0	0	0
Pacific Contiguous	23,762	25,207	-5.7%	4,943	5,414	18,810	19,783	5	6	5	5
California	11,997	12,216	-1.8%	678	640	11,310	11,565	5	6	5	5
Oregon	5,603	6,229	-10.1%	965	1,150	4,637	5,079	0	0	0	0
Washington	6,163	6,763	-8.9%	3,300	3,624	2,863	3,139	0	0	0	0
Pacific Noncontiguous	670	673	-0.5%	85	91	584	583	0	0	0	0
Alaska	132	141	-6.3%	85	91	47	50	0	0	0	0
Hawaii	538	532	1.0%	0	0	538	532	0	0	0	0
U.S. Total	207,769	184,441	12.6%	29,886	27,961	177,718	156,319	109	106	56	55

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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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	588	528	11.3%	56	51	438	392	15	13	79	72
Connecticut	70	62	12.1%	0	0	70	62	0	0	0	0
Maine	225	177	26.8%	0	0	137	97	9	9	79	72
Massachusetts	90	98	-8.2%	0	0	88	96	2	2	0	0
New Hampshire	151	141	7.5%	30	31	117	107	5	3	0	0
Rhode Island	13	14	-11.0%	0	0	13	14	0	0	0	0
Vermont	40	37	10.4%	26	20	14	16	0	0	0	0
Middle Atlantic	478	442	8.0%	0	0	359	344	48	37	70	62
New Jersey	81	83	-2.4%	0	0	67	70	15	14	0	0
New York	191	193	-1.5%	0	0	153	158	21	20	17	16
Pennsylvania	206	166	24.3%	0	0	140	116	13	4	53	46
East North Central	497	411	20.8%	74	38	276	226	17	17	130	130
Illinois	40	28	43.7%	1	1	38	26	0	0	0	0
Indiana	35	31	11.8%	23	21	4	4	2	1	6	5
Michigan	220	197	12.0%	0	0	155	124	10	13	55	60
Ohio	57	55	4.6%	NM	0	37	33	1	1	19	21
Wisconsin	145	101	43.2%	49	15	42	39	4	3	49	45
West North Central	206	212	-3.1%	45	47	98	86	10	9	52	70
Iowa	17	22	-22.8%	NM	2	10	11	3	3	3	6
Kansas	5	5	-9.8%	0	0	5	5	0	0	0	0
Minnesota	164	164	-0.1%	34	34	80	65	2	2	48	63
Missouri	12	12	0.0%	NM	4	4	5	5	3	0	0
Nebraska	7	9	-13.2%	6	7	0	0	1	2	0	0
North Dakota	NM	0	NM	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,640	1,372	19.5%	161	90	568	432	18	23	893	827
Delaware	5	5	5.7%	0	0	4	4	0	0	NM	1
District of Columbia	5	4	20.6%	0	0	5	4	0	0	0	0
Florida	414	355	16.8%	7	7	239	199	4	3	165	145
Georgia	409	362	13.0%	0	0	70	55	0	0	340	307
Maryland	46	47	-1.1%	0	0	39	35	1	1	6	11
North Carolina	234	152	53.7%	0	0	112	40	NM	1	122	112
South Carolina	197	174	13.1%	37	23	31	21	0	0	130	130
Virginia	329	273	20.3%	117	60	70	75	12	18	130	121
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	490	497	-1.4%	7	8	30	34	0	0	453	455
Alabama	253	261	-3.1%	0	0	22	24	0	0	231	236
Kentucky	36	33	7.8%	7	8	0	1	0	0	28	24
Mississippi	132	133	-0.2%	0	0	NM	1	0	0	132	131
Tennessee	69	71	-1.8%	0	0	7	7	0	0	63	63
West South Central	512	526	-2.7%	0	0	75	68	4	3	434	455
Arkansas	126	109	15.4%	0	0	9	7	0	0	116	101
Louisiana	223	254	-12.1%	0	0	7	8	0	0	216	246
Oklahoma	31	34	-7.9%	0	0	NM	1	0	0	30	32
Texas	132	130	1.7%	0	0	57	51	3	3	72	76
Mountain	72	88	-18.0%	NM	1	54	54	2	2	16	31
Arizona	19	17	14.0%	0	0	19	17	0	0	0	0
Colorado	12	15	-17.3%	0	0	12	15	0	0	0	0
Idaho	27	43	-36.1%	NM	1	11	12	1	1	14	29
Montana	2	2	4.0%	0	0	0	0	0	0	2	2
Nevada	5	4	10.0%	0	0	5	4	0	0	0	0
New Mexico	1	1	6.0%	0	0	1	1	0	0	0	0
Utah	6	7	-12.8%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	751	753	-0.3%	60	70	414	409	64	76	213	198
California	494	492	0.4%	11	21	366	362	60	72	57	38
Oregon	89	83	8.1%	5	5	37	36	3	2	44	40
Washington	167	178	-6.0%	43	45	11	11	NM	1	112	120
Pacific Noncontiguous	24	38	-36.4%	3	2	0	5	21	24	NM	7
Alaska	4	4	-2.7%	0	0	0	0	4	4	NM	0
Hawaii	20	34	-40.5%	3	2	0	5	17	20	0	7
U.S. Total	5,257	4,869	8.0%	406	307	2,312	2,051	199	206	2,340	2,306

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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 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	6,187	5,971	3.6%	468	509	4,647	4,464	141	131	930	867
Connecticut	701	715	-1.9%	0	0	701	715	0	0	0	0
Maine	2,447	2,308	6.0%	0	0	1,439	1,366	78	75	930	867
Massachusetts	998	1,002	-0.4%	0	0	973	978	24	24	0	0
New Hampshire	1,490	1,379	8.1%	238	254	1,215	1,096	37	29	0	0
Rhode Island	167	171	-2.6%	0	0	167	171	0	0	0	0
Vermont	384	395	-3.0%	230	255	152	139	2	2	0	0
Middle Atlantic	4,748	4,646	2.2%	0	0	3,593	3,597	456	405	699	644
New Jersey	773	816	-5.2%	0	0	633	677	140	139	0	0
New York	1,890	1,847	2.3%	0	0	1,536	1,502	191	179	163	165
Pennsylvania	2,085	1,984	5.1%	0	0	1,424	1,418	125	86	535	480
East North Central	4,835	4,629	4.4%	631	514	2,721	2,584	185	177	1,298	1,355
Illinois	412	388	6.3%	17	18	395	370	0	0	0	0
Indiana	352	361	-2.6%	234	239	42	42	16	17	60	63
Michigan	2,139	2,062	3.7%	0	0	1,487	1,361	115	123	536	578
Ohio	593	603	-1.7%	3	3	381	382	7	7	202	211
Wisconsin	1,338	1,214	10.2%	376	254	416	428	46	30	500	503
West North Central	2,087	2,010	3.8%	462	473	926	846	115	120	584	571
Iowa	157	205	-23.3%	18	18	68	103	34	39	36	45
Kansas	47	49	-2.7%	0	0	47	49	0	0	0	0
Minnesota	1,680	1,542	8.9%	347	349	772	653	19	22	542	519
Missouri	119	120	-0.9%	32	33	39	41	46	43	3	3
Nebraska	79	89	-10.8%	64	73	0	0	15	16	0	0
North Dakota	4	5	-22.2%	0	0	0	0	0	0	4	5
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,350	15,585	4.9%	1,600	1,488	5,530	5,237	179	296	9,040	8,565
Delaware	55	56	-2.6%	0	0	42	43	0	0	13	13
District of Columbia	38	44	-13.4%	0	0	38	44	0	0	0	0
Florida	4,082	3,814	7.0%	66	72	2,298	2,042	39	39	1,679	1,661
Georgia	4,028	3,756	7.2%	0	0	671	586	0	3	3,357	3,168
Maryland	452	451	0.0%	0	0	345	348	10	13	97	90
North Carolina	2,175	2,045	6.4%	0	0	1,056	957	9	53	1,111	1,035
South Carolina	2,250	1,992	13.0%	367	338	365	335	0	0	1,518	1,319
Virginia	3,271	3,426	-4.5%	1,167	1,077	716	883	122	188	1,266	1,278
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5,192	5,190	0.1%	74	75	309	310	0	0	4,809	4,805
Alabama	2,786	2,766	0.7%	0	0	227	220	0	0	2,559	2,546
Kentucky	368	385	-4.5%	74	75	6	11	0	0	288	298
Mississippi	1,251	1,276	-2.0%	0	0	8	9	0	0	1,243	1,267
Tennessee	788	763	3.3%	0	0	68	69	0	0	720	693
West South Central	5,098	5,187	-1.7%	0	19	699	711	32	31	4,367	4,426
Arkansas	1,228	1,118	9.8%	0	0	92	88	5	4	1,131	1,026
Louisiana	2,332	2,400	-2.8%	0	0	68	67	0	0	2,265	2,333
Oklahoma	236	298	-20.7%	0	0	12	12	0	0	224	286
Texas	1,301	1,371	-5.1%	0	19	527	543	27	27	747	782
Mountain	874	894	-2.2%	9	9	570	545	18	23	277	317
Arizona	200	176	13.8%	0	0	200	176	0	0	0	0
Colorado	138	132	5.1%	0	0	138	132	0	0	0	0
Idaho	392	439	-10.7%	9	9	114	121	10	9	260	300
Montana	18	17	5.9%	0	0	0	0	0	0	18	17
Nevada	50	46	9.0%	0	0	50	46	0	0	0	0
New Mexico	15	15	0.0%	0	0	15	15	0	0	0	0
Utah	61	70	-12.3%	0	0	53	56	8	14	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,461	7,469	-0.1%	613	634	4,054	4,009	701	750	2,094	2,076
California	4,917	4,985	-1.4%	111	185	3,613	3,575	660	711	533	515
Oregon	860	832	3.4%	51	52	344	331	27	27	438	422
Washington	1,685	1,652	2.0%	450	397	98	103	14	13	1,123	1,139
Pacific Noncontiguous	241	337	-28.5%	46	32	0	43	194	207	NM	56
Alaska	34	36	-4.3%	0	0	0	0	34	35	NM	0
Hawaii	207	301	-31.3%	46	32	0	43	160	171	0	55
U.S. Total	53,073	51,918	2.2%	3,904	3,752	23,050	22,346	2,021	2,139	24,098	23,682

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	323	330	-2.1%	22	22	301	307	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	5	6	-11.2%	0	0	5	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	278	280	-0.7%	0	0	278	280	0	0	0	0
New Mexico	1	1	-49.9%	0	0	1	1	0	0	0	0
Utah	39	43	-9.0%	22	22	17	21	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	918	997	-7.9%	58	73	860	924	0	0	0	0
California	901	979	-8.0%	58	72	843	907	0	0	0	0
Oregon	17	18	-5.1%	0	0	17	17	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	21	27	-23.3%	0	0	21	27	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	21	27	-23.3%	0	0	21	27	0	0	0	0
U.S. Total	1,261	1,353	-6.8%	80	95	1,181	1,258	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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	3,217	3,197	0.6%	220	212	2,997	2,986	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	56	59	-4.7%	0	0	56	59	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,768	2,732	1.3%	0	0	2,768	2,732	0	0	0	0
New Mexico	11	12	-9.6%	0	0	11	12	0	0	0	0
Utah	382	395	-3.1%	220	212	162	183	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	9,823	9,605	2.3%	650	680	9,173	8,925	0	0	0	0
California	9,664	9,462	2.1%	649	677	9,015	8,785	0	0	0	0
Oregon	159	143	11.2%	2	3	158	140	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	209	206	1.5%	0	0	209	206	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	209	206	1.5%	0	0	209	206	0	0	0	0
U.S. Total	13,249	13,008	1.9%	871	892	12,378	12,116	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	285	195	46.2%	117	64	169	131	7	2	109	61	NM	73	NM	1	95	72	7	6	0	0	7	6	67	53
Connecticut	37	27	33.1%	6	2	31	25	0	0	5	2	12	10	0	0	12	10	2	1	0	0	2	1	18	14
Maine	NM	2	NM	NM	0	3	2	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Massachusetts	212	147	44.1%	96	55	115	92	NM	1	94	53	NM	58	NM	1	75	57	5	5	0	0	5	5	35	30
New Hampshire	7	4	56.9%	0	0	7	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
Rhode Island	NM	4	NM	NM	1	5	2	0	0	NM	1	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Vermont	19	11	85.4%	12	5	8	5	5	1	7	5	3	2	0	0	3	2	NM	0	0	0	NM	0	5	3
Middle Atlantic	387	280	38.4%	139	84	248	195	9	6	111	65	128	103	17	12	111	91	NM	13	NM	1	14	12	123	92
New Jersey	241	174	38.4%	112	67	129	106	9	6	86	50	83	70	16	11	67	59	NM	7	NM	0	8	6	54	41
New York	109	78	40.3%	19	11	91	67	0	0	18	11	NM	23	NM	0	33	23	1	1	0	0	1	1	56	43
Pennsylvania	37	28	32.7%	9	6	28	22	0	0	7	5	NM	9	NM	0	10	9	NM	5	NM	1	4	4	13	9
East North Central	89	52	71.5%	60	33	28	19	21	6	39	26	NM	12	NM	0	17	12	2	NM	0	0	1	NM	9	6
Illinois	9	7	29.3%	4	4	5	3	0	0	4	4	3	2	0	0	3	2	NM	NM	0	0	NM	NM	2	1
Indiana	36	23	58.5%	33	21	3	1	11	4	22	17	1	1	0	0	1	1	0	NM	0	0	0	NM	1	1
Michigan	15	5	213.8%	9	1	6	4	9	1	0	0	4	2	0	0	4	2	0	NM	0	0	0	NM	2	2
Ohio	22	14	52.9%	12	6	10	8	NM	1	10	5	NM	7	NM	0	7	6	1	1	0	0	0	0	2	2
Wisconsin	NM	3	NM	NM	0	4	3	0	0	NM	0	1	1	0	0	1	1	1	NM	0	0	1	NM	2	1
West North Central	109	27	309.4%	79	5	30	22	NM	1	77	4	15	12	0	0	15	12	1	0	0	0	1	0	14	10
Iowa	NM	5	NM	NM	0	7	5	NM	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	2	2
Kansas	NM	1	NM	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Minnesota	75	4	NM	70	1	4	3	NM	0	70	1	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Missouri	22	17	31.0%	6	3	16	13	0	0	5	3	8	7	0	0	8	7	0	0	0	0	0	0	8	6
Nebraska	NM	1	NM	NM	1	0	0	0	0	NM	1	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0
North Dakota	0	0	13.2%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,002	512	95.7%	852	404	150	108	128	41	711	353	60	49	13	10	47	39	21	16	0	0	21	16	82	54
Delaware	13	11	21.5%	6	5	7	6	NM	1	5	4	NM	2	NM	0	2	2	0	0	0	0	0	0	5	3
District of Columbia	5	3	53.3%	0	0	5	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	2	1
Florida	92	28	231.0%	66	10	25	17	50	7	17	3	NM	7	NM	0	8	7	1	0	0	0	1	0	17	10
Georgia	NM	130	NM	178	115	NM	NM	23	17	155	98	NM	NM	NM	0	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	84	64	32.2%	26	19	58	45	NM	1	25	17	NM	15	NM	1	16	14	2	3	0	0	2	3	40	28
North Carolina	547	267	104.4%	530	254	16	14	36	15	483	229	22	18	12	9	10	9	1	0	0	0	1	0	6	4
South Carolina	25	5	441.5%	12	0	13	4	0	0	12	0	3	1	0	0	3	1	1	NM	0	0	1	NM	8	3
Virginia	39	4	846.9%	34	1	6	3	17	0	16	0	2	1	0	0	2	1	0	NM	0	0	0	NM	3	2
West Virginia	1	0	42.0%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	61	29	111.6%	50	19	11	10	5	2	45	17	NM	7	NM	0	7	7	0	0	0	0	0	0	3	3
Alabama	NM	11	NM	18	11	NM	1	4	0	15	11	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Kentucky	4	3	11.7%	1	2	2	2	1	2	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Mississippi	15	1	NM	15	0	1	1	0	0	15	0	1	0	0	0	1	0	NM	0	0	0	NM	0	0	0
Tennessee	23	14	69.6%	16	7	7	7	0	0	16	7	NM	5	NM	0	5	5	NM	0	0	0	NM	0	2	2
West South Central	284	133	113.5%	204	81	80	52	NM	1	203	80	20	12	0	0	20	12	0	0	0	0	0	0	60	39
Arkansas	4	3	3.5%	3	3	1	1	NM	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Louisiana	17	16	6.7%	0	0	17	16	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	16	15
Oklahoma	1	1	22.6%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	262	113	132.6%	201	78	61	35	NM	0	200	78	19	12	0	0	19	11	0	0	0	0	0	0	43	23
Mountain	1,384	1,047	32.2%	1,112	814	272	233	83	77	1,019	728	85	80	10	9	75	71	15	17	0	0	15	17	182	145
Arizona	501	383	30.8%	354	251	147	132	58	40	294	209	NM	39	NM	2	38	37	11	14	0	0	11	14	98	81
Colorado	128	115	11.3%	84	76	44	38	NM	0	82	74	NM	18	NM	2	17	16	0	0	0	0	0	0	26	22
Idaho	48	6	644.6%	46	5	2	1	0	0	46	5	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	5	1	401.9%	3	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	388	286	35.6%	355	255	33	31	3	4	346	247	13	13	6	5	7	8	2	2	0	0	2	2	24	21
New Mexico	117	113	3.0%	99	100	18	14	22	33	77	66	6	5	0	0	6	5	0	0	0	0	0	0	12	8
Utah	199	142	39.5%	172	127	27	16	0	0	172	127	6	4	0	0	6	4	1	1	0	0	1	1	21	11
Wyoming	0	0	40.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM
Pacific Contiguous	2,799	2,150	30.2%	1,858	1,430	941	720	52	40	1,791	1,378	232	165	12	10	220	155	159	123	4	1	155	122	566	443
California	2,753	2,128	29.4%	1,834	1,425	919	703	51	40	1,768	1,375	224	159	12	10	212	149	157	122	4	1	154	121	553	433
Oregon	37	15	148.2%	23	4	14	11	NM	1	23	4	6	5	0	0	6	5	1	1	0	0	1	1	7	5
Washington	8	6	30.9%	0	0	8	6	0	0	0	0	1	1	0	0	1	1	NM	0	0	0	NM	0	7	5
Pacific Noncontiguous	95	71	34.5%	18	8	78	63	3	4	14	4	29	23	0	0	29	23	0	0	0	0	0	0	49	39
Alaska	0	0	53.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	95	71	34.5%	18	8	78	63	3	4	14	4	29	23	0	0	29	23	0	0	0	0	0	0	49	39
U.S. Total	6,496	4,495	44.5%	4,490	2,942	2,006	1,552	312	179	4,119	2,719	689	536	53	42	636	493	220	176	6	2	214	174	1,156	884

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
				Electric Utilities		Independent Power Producers															
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	3,044	2,169	40.4%	1,060	605	1,984	1,563	69	18	985	583	1,108	863	6	5	1,102	858	88	72	0	0	88	72	794	633
Connecticut	411	303	35.9%	51	21	361	282	3	2	48	19	136	114	0	0	136	114	19	14	0	0	19	14	206	154
Maine	45	26	73.1%	9	0	36	26	0	0	9	0	13	9	0	0	13	9	0	0	0	0	0	0	23	17
Massachusetts	2,233	1,638	36.3%	869	522	1,364	1,116	18	13	845	504	879	692	6	5	873	687	63	57	0	0	63	57	428	372
New Hampshire	78	45	73.3%	0	0	78	45	0	0	0	0	23	12	0	0	23	12	5	2	0	0	5	2	50	31
Rhode Island	64	39	64.8%	17	13	47	26	0	0	17	13	23	14	0	0	23	14	0	0	0	0	0	0	24	12
Vermont	214	119	80.5%	115	50	99	68	48	3	66	48	36	21	0	0	36	21	2	0	0	0	2	0	62	47
Middle Atlantic	4,171	3,167	31.7%	1,314	913	2,857	2,254	85	73	1,047	694	1,457	1,237	163	134	1,294	1,102	174	151	18	12	156	139	1,407	1,012
New Jersey	2,525	1,952	29.4%	1,044	730	1,481	1,221	85	73	800	526	935	844	150	127	786	717	99	79	9	5	90	74	606	430
New York	1,243	896	38.7%	188	117	1,054	779	0	0	182	115	390	283	6	3	385	280	12	12	0	0	12	12	657	486
Pennsylvania	403	319	26.1%	82	66	321	254	0	0	65	54	131	110	7	5	124	105	63	61	9	7	54	53	143	96
East North Central	897	526	70.5%	576	300	322	227	191	43	381	252	202	145	NM	2	199	144	19	12	1	2	18	10	105	73
Illinois	100	75	33.1%	49	42	51	33	2	2	47	40	33	21	0	0	33	21	0	0	0	0	0	0	18	11
Indiana	345	207	66.7%	317	192	28	15	109	27	209	165	13	7	0	0	13	7	1	1	0	0	1	1	14	8
Michigan	146	57	154.9%	70	7	76	50	70	7	0	0	48	28	0	0	48	28	1	1	0	0	1	1	28	22
Ohio	233	154	51.8%	115	56	118	97	10	7	101	45	91	77	NM	2	89	75	7	6	1	2	6	4	24	18
Wisconsin	73	33	120.3%	24	2	49	31	0	0	24	2	17	12	0	0	17	12	10	4	0	0	10	4	21	14
West North Central	1,040	283	267.9%	710	40	330	243	14	3	694	35	172	132	1	1	170	131	8	6	0	0	8	6	152	107
Iowa	85	53	62.1%	7	0	79	53	7	0	0	0	49	32	0	0	49	32	3	2	0	0	3	2	27	18
Kansas	18	9	95.7%	3	2	15	7	0	0	3	2	5	2	0	0	5	2	0	0	0	0	0	0	10	5
Minnesota	684	40	NM	632	7	52	33	5	0	627	7	22	15	0	0	22	15	4	2	0	0	4	2	27	16
Missouri	229	174	31.1%	50	27	179	147	3	2	46	24	95	82	1	1	93	80	1	1	0	0	1	1	85	66
Nebraska	21	5	278.3%	16	3	5	2	0	0	16	3	2	1	0	0	2	1	0	0	0	0	0	0	3	1
North Dakota	0	0	13.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	3	1	227.9%	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	9,712	5,019	93.5%	8,131	3,929	1,581	1,090	1,249	352	6,754	3,457	634	520	128	121	506	399	210	178	0	0	210	178	865	513
Delaware	134	99	35.9%	53	40	81	59	7	6	44	33	26	22	NM	1	25	21	5	3	0	0	5	3	52	34
District of Columbia	45	27	69.5%	0	0	45	27	0	0	0	0	25	12	0	0	25	12	0	0	0	0	0	0	20	14
Florida	888	303	193.3%	641	130	246	173	525	73	114	54	84	74	3	3	81	71	7	5	0	0	7	5	158	97
Georgia	2,100	796	163.8%	1,906	627	194	169	242	75	1,660	549	29	26	NM	2	26	24	155	134	0	0	155	134	14	11
Maryland	902	635	42.1%	246	185	656	450	9	8	231	171	190	157	6	6	184	151	29	30	0	0	29	30	443	269
North Carolina	5,088	3,085	64.9%	4,911	2,941	177	144	335	188	4,463	2,645	227	205	114	109	113	97	6	4	0	0	6	4	58	44
South Carolina	195	32	505.4%	77	4	119	29	0	0	77	4	30	8	0	0	30	8	8	1	0	0	8	1	81	19
Virginia	353	38	837.1%	296	2	56	35	132	2	165	0	21	13	0	0	21	13	1	0	0	0	1	0	35	22
West Virginia	7	5	38.6%	0	0	7	5	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	5	4
East South Central	496	194	155.2%	381	89	115	106	39	10	337	76	86	78	5	3	80	75	1	1	0	0	1	1	34	30
Alabama	182	18	910.8%	175	11	7	7	23	0	151	11	5	5	0	0	5	5	0	0	0	0	0	0	2	2
Kentucky	38	28	38.5%	16	10	23	18	16	10	0	0	14	12	0	0	14	12	0	0	0	0	0	0	9	6
Mississippi	69	5	NM	60	0	9	5	0	0	60	0	6	4	0	0	6	4	0	0	0	0	0	0	3	2
Tennessee	208	143	44.8%	131	68	76	76	0	0	126	65	61	58	5	3	56	55	1	1	0	0	1	1	20	20
West South Central	2,662	1,132	135.2%	1,861	626	800	505	11	6	1,849	619	203	130	2	2	202	129	0	0	0	0	0	0	599	377
Arkansas	35	28	27.7%	26	21	9	6	NM	1	24	20	3	3	0	0	3	3	0	0	0	0	0	0	6	3
Louisiana	180	164	9.7%	0	0	180	164	0	0	0	0	7	6	0	0	7	6	0	0	0	0	0	0	173	159
Oklahoma	10	8	18.3%	5	5	5	3	5	5	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	3
Texas	2,436	932	161.5%	1,831	600	606	331	4	0	1,825	599	191	121	2	2	190	120	0	0	0	0	0	0	416	212
Mountain	13,561	9,373	44.7%	10,824	6,982	2,738	2,391	798	678	9,929	6,215	832	846	95	86	737	759	154	177	2	2	151	175	1,849	1,457
Arizona	5,094	4,081	24.8%	3,566	2,695	1,528	1,386	539	438	3,007	2,236	420	430	19	21	400	409	120	147	0	0	120	147	1,008	831
Colorado	1,284	832	54.3%	825	430	459	402	NM	0	807	417	199	181	16	13	183	168	2	2	0	0	2	2	274	232
Idaho	458	29	NM	444	20	14	9	0	0	444	20	4	3	0	0	4	3	0	0	0	0	0	0	10	6
Montana	30	10	203.6%	16	0	13	10	0	0	16	0	4	3	0	0	4	3	0	0	0	0	0	0	10	7
Nevada	3,521	2,746	28.2%	3,221	2,421	300	325	36	44	3,123	2,322	87	137	59	53	28	84	23	22	2	2	21	20	251	221
New Mexico	1,162	720	61.3%	990	588	171	132	220	196	770	392	64	54	0	0	64	54	1	1	0	0	1	1	107	77
Utah	2,009	953	110.8%	1,761	828	248	125	0	0	1,761	828	54	37	0	0	54	37	7	6	0	0	7	6	187	83
Wyoming	4	3	34.8%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Pacific Contiguous	28,104	21,552	30.4%	18,565	14,195	9,538	7,358	481	415	17,944	13,667	2,235	1,648	116	106	2,120	1,542	1,580	1,219	25	7	1,555	1,211	5,863	4,604
California	27,630	21,296	29.7%	18,365	14,162	9,265	7,134	475	409	17,750	13,640	2,144	1,570	116	106	2,029	1,464	1,566	1,206	25	7	1,541	1,199	5,695	4,471
Oregon	365	172	112.0%	200	32	166	140	6	5	194	27	73	65	0	0	73	65	14	12	0	0	14	12	79	63
Washington	108	84	29.5%	0	1	108	83	0	1	0	0	18	12	0	0	18	12	0	0	0	0	0	0	90	71
Pacific Noncontiguous	994	728	36.5%	167	76	826	652	37	38	130	38	306	239	0	0	306	239	2	2	0	0	2	2	518	411
Alaska	2	1	51.6%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Hawaii	992	727	36.5%	167	76	824	651	37	38	130	38	305	238	0	0	305	238	2	2	0	0	2	2	517	411
U.S. Total	64,681	44,143	46.5%	43,589	27,755	21,092	16,388	2,974	1,634	40,050	25,636	7,234	5,838	518	460	6,716	5,378	2,237	1,818	47	24	2,190	1,794	12,186	9,217

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. 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, October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1	3	-65.7%	1	3	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	3	-65.7%	1	3	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	91	63	45.6%	0	0	91	63	0	0	0	0
Arizona	72	51	42.7%	0	0	72	51	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	19	12	57.5%	0	0	19	12	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	222	183	21.1%	0	0	222	183	0	0	0	0
California	222	183	21.1%	0	0	222	183	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	314	249	26.3%	1	3	313	246	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 for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and 2016 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	14	68	-79.1%	14	68	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	14	68	-79.1%	14	68	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	822	824	-0.3%	0	0	822	824	0	0	0	0
Arizona	669	587	14.1%	0	0	669	587	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	152	237	-35.8%	0	0	152	237	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	2,180	2,216	-1.7%	0	0	2,180	2,216	0	0	0	0
California	2,180	2,216	-1.7%	0	0	2,180	2,216	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	3,016	3,109	-3.0%	14	68	3,001	3,041	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 for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2007-October 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,371	496,192	178,047	111	3,021
Year 2015					
January	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
Year 2016					
January	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	63,391	46,761	16,354	12	265
February	47,879	35,522	12,112	10	235
March	48,699	35,716	12,738	9	235
April	44,210	31,495	12,507	5	202
May	50,710	37,277	13,209	6	219
June	58,886	43,798	14,855	7	226
July	69,807	52,067	17,495	8	237
August	65,877	49,106	16,528	8	235
Sept	54,700	39,430	15,035	8	227
October	50,172	36,285	13,644	7	236
Year to Date					
2015	640,427	466,201	170,677	137	3,412
2016	564,448	414,045	147,777	89	2,537
2017	554,330	407,457	144,476	79	2,317
Rolling 12 Months Ending in October					
2016	663,615	487,351	173,026	115	3,124
2017	667,253	489,604	174,747	101	2,801

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2007-October 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	16,586	2,979	1,336	572	11,700
Year 2015					
January	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
Year 2016					
January	1,624	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	1,503	290	137	54	1,020
February	1,227	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	1,223	264	104	45	811
August	1,244	264	110	40	830
Sept	1,152	216	94	39	803
October	1,274	225	101	36	913
Year to Date					
2015	13,948	838	1,684	529	10,897
2016	13,816	2,445	1,102	459	9,810
2017	12,625	2,328	1,101	416	8,779
Rolling 12 Months Ending in October					
2016	16,499	2,639	1,398	564	11,899
2017	15,395	2,862	1,336	530	10,668

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	693,958	499,172	179,383	683	14,720
Year 2015					
January	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
Year 2016					
January	63,607	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	64,894	47,052	16,491	66	1,285
February	49,106	35,730	12,236	54	1,087
March	50,055	35,941	12,884	58	1,172
April	45,426	31,707	12,611	40	1,068
May	51,931	37,483	13,310	40	1,098
June	60,094	44,017	14,937	46	1,094
July	71,029	52,330	17,598	53	1,047
August	67,121	49,370	16,638	49	1,065
Sept	55,852	39,646	15,129	47	1,030
October	51,446	36,510	13,744	43	1,149
Year to Date					
2015	654,375	467,039	172,361	667	14,309
2016	578,264	416,491	148,878	548	12,347
2017	566,955	409,786	145,578	496	11,096
Rolling 12 Months Ending in October					
2016	680,115	489,989	174,424	679	15,023
2017	682,648	492,467	176,082	631	13,469

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 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2007-October 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	22,405	16,137	5,624	108	536
Year 2015					
January	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
Year 2016					
January	2,472	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	1,978	1,459	453	20	45
February	1,570	1,157	362	13	38
March	1,673	1,342	278	16	37
April	1,519	1,188	285	11	36
May	1,751	1,304	394	16	37
June	1,739	1,290	397	14	38
July	1,853	1,296	505	17	35
August	1,724	1,276	392	20	37
Sept	1,724	1,254	417	15	39
October	1,731	1,331	346	15	40
Year to Date					
2015	25,625	16,037	8,795	234	559
2016	18,739	13,478	4,723	85	453
2017	17,262	12,895	3,829	156	381
Rolling 12 Months Ending in October					
2016	22,039	16,002	5,401	101	535
2017	20,928	15,555	4,730	179	464

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,277	68	245	245	1,719
Year 2015					
January	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
Year 2016					
January	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	29	81
March	138	4	10	30	94
April	137	3	11	16	108
May	160	3	14	20	123
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
Year to Date					
2015	2,729	60	980	270	1,419
2016	1,933	55	197	184	1,496
2017	1,453	50	165	216	1,022
Rolling 12 Months Ending in October					
2016	2,345	57	372	196	1,720
2017	1,798	63	213	277	1,245

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	24,682	16,205	5,869	352	2,255
Year 2015					
January	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
Year 2016					
January	2,702	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	2,185	1,471	492	59	162
February	1,705	1,164	381	41	119
March	1,811	1,346	288	46	131
April	1,657	1,190	296	26	144
May	1,911	1,307	408	35	160
June	1,886	1,295	412	29	150
July	1,978	1,299	519	34	125
August	1,862	1,279	404	39	140
Sept	1,844	1,258	431	30	125
October	1,876	1,335	364	31	146
Year to Date					
2015	28,354	16,097	9,775	504	1,978
2016	20,671	13,532	4,920	270	1,949
2017	18,715	12,945	3,995	373	1,403
Rolling 12 Months Ending in October					
2016	24,385	16,060	5,774	297	2,255
2017	22,726	15,618	4,944	456	1,709

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,253	3,427	591	2	233
Year 2015					
January	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
Year 2016					
January	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	33	0	13
March	272	214	39	0	18
April	153	110	29	0	13
May	320	264	38	0	18
June	341	282	40	0	19
July	333	271	39	0	23
August	283	226	39	0	19
Sept	261	209	36	0	16
October	222	171	36	0	15
Year to Date					
2015	3,508	2,710	581	2	216
2016	3,611	2,927	491	1	192
2017	2,804	2,266	369	2	167
Rolling 12 Months Ending in October					
2016	4,147	3,337	579	2	230
2017	3,446	2,765	470	3	208

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,099	6	113	9	971
Year 2015					
January	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
Year 2016					
January	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	52
March	84	1	10	2	72
April	71	0	10	1	60
May	76	1	10	1	65
June	92	1	9	1	81
July	79	1	10	0	68
August	85	2	9	2	71
Sept	74	1	9	2	62
October	83	1	9	1	72
Year to Date					
2015	952	6	90	13	844
2016	904	5	93	7	799
2017	781	8	97	12	664
Rolling 12 Months Ending in October					
2016	1,096	8	113	10	965
2017	976	9	117	14	836

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,352	3,433	705	10	1,204
Year 2015					
January	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
Year 2016					
January	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	429	301	50	2	75
February	326	218	42	1	65
March	356	215	50	2	90
April	224	110	39	1	73
May	397	265	48	1	83
June	433	283	49	1	100
July	412	272	49	0	91
August	368	228	48	2	90
Sept	335	211	45	2	78
October	305	172	45	2	87
Year to Date					
2015	4,461	2,716	670	15	1,059
2016	4,515	2,932	584	8	991
2017	3,585	2,274	465	14	831
Rolling 12 Months Ending in October					
2016	5,243	3,345	692	12	1,195
2017	4,422	2,774	587	16	1,044

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,170,110	5,018,894	4,571,375	46,304	533,537
Year 2015					
January	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
Year 2016					
January	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	664,173	330,006	283,390	3,856	46,921
February	571,073	281,778	244,837	3,448	41,011
March	738,794	366,258	325,245	3,831	43,459
April	642,696	327,657	269,357	3,161	42,522
May	725,983	376,050	303,709	3,446	42,778
June	873,003	438,895	386,270	3,774	44,064
July	1,101,510	557,516	493,179	4,173	46,642
August	1,082,389	541,590	492,095	4,169	44,535
Sept	883,227	443,720	394,688	3,898	40,921
October	797,995	399,415	353,498	3,719	41,363
Year to Date					
2015	8,442,020	3,985,387	3,882,936	58,874	514,823
2016	8,804,710	4,341,538	3,978,477	39,813	444,882
2017	8,080,844	4,062,885	3,546,269	37,474	434,215
Rolling 12 Months Ending in October					
2016	10,379,265	5,101,405	4,672,225	51,032	554,603
2017	9,446,244	4,740,242	4,139,167	43,965	522,871

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	1,151,866	38,096	356,905	80,943	675,922
Year 2015					
January	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
Year 2016					
January	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	101,598	3,789	30,607	7,624	59,578
February	91,951	3,216	26,550	6,512	55,672
March	98,597	3,353	29,331	6,529	59,384
April	90,082	3,046	26,033	5,443	55,560
May	90,628	2,954	26,119	5,558	55,997
June	93,512	3,423	27,809	6,090	56,191
July	99,963	4,078	29,271	6,544	60,071
August	97,633	3,905	29,164	6,394	58,171
Sept	93,655	3,643	26,806	5,997	57,210
October	95,155	3,585	27,351	6,130	58,089
Year to Date					
2015	776,046	6,604	237,424	38,421	493,596
2016	962,885	31,764	300,659	68,412	562,050
2017	952,774	34,992	279,040	62,819	575,923
Rolling 12 Months Ending in October					
2016	1,121,937	33,220	346,607	76,277	665,833
2017	1,141,755	41,324	335,286	75,350	689,795

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, 2007-October 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,321,975	5,056,990	4,928,280	127,246	1,209,459
Year 2015					
January	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
Year 2016					
January	888,054	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	765,771	333,795	313,997	11,480	106,499
February	663,024	284,994	271,387	9,960	96,683
March	837,391	369,612	354,576	10,360	102,843
April	732,778	330,703	295,390	8,603	98,082
May	816,611	379,005	329,828	9,004	98,775
June	966,516	442,318	414,079	9,864	100,255
July	1,201,473	561,593	522,450	10,716	106,713
August	1,180,022	545,494	521,259	10,562	102,707
Sept	976,882	447,362	421,494	9,895	98,131
October	893,150	403,000	380,849	9,849	99,452
Year to Date					
2015	9,218,066	3,991,992	4,120,359	97,296	1,008,420
2016	9,767,594	4,373,301	4,279,136	108,225	1,006,932
2017	9,033,618	4,097,877	3,825,309	100,294	1,010,138
Rolling 12 Months Ending in October					
2016	11,501,202	5,134,625	5,018,832	127,309	1,220,436
2017	10,587,999	4,781,566	4,474,452	119,315	1,212,666

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	273,557	24,280	224,993	20,445	3,839
Year 2015					
January	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
Year 2016					
January	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	23,584	2,207	19,369	1,643	365
February	21,206	2,062	17,335	1,459	350
March	23,155	2,249	18,845	1,669	392
April	21,385	2,091	17,433	1,515	347
May	21,918	2,234	17,938	1,460	286
June	21,971	1,949	18,174	1,533	316
July	22,779	1,989	18,962	1,569	259
August	22,967	2,092	18,999	1,583	294
Sept	21,801	2,001	17,978	1,544	278
October	21,577	2,029	17,840	1,398	309
Year to Date					
2015	232,407	20,969	186,526	21,115	3,796
2016	225,000	20,298	184,565	16,929	3,208
2017	222,343	20,903	182,872	15,373	3,196
Rolling 12 Months Ending in October					
2016	275,123	24,586	225,420	21,064	4,053
2017	270,900	24,885	223,299	18,889	3,827

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,163	3	2,339	1,034	788
Year 2015					
January	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
Year 2016					
January	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	445	0	278	94	73
February	432	0	269	92	70
March	476	1	306	92	77
April	408	0	221	107	80
May	291	0	133	85	73
June	370	1	185	89	96
July	358	1	204	85	69
August	401	1	208	98	94
Sept	354	1	175	98	80
October	389	1	243	93	53
Year to Date					
2015	1,227	2	500	426	300
2016	3,398	2	1,882	857	657
2017	3,925	6	2,222	933	764
Rolling 12 Months Ending in October					
2016	3,693	3	2,026	946	719
2017	4,690	6	2,679	1,110	895

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	277,720	24,283	227,332	21,479	4,626
Year 2015					
January	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
Year 2016					
January	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	24,029	2,207	19,647	1,738	438
February	21,637	2,062	17,604	1,551	420
March	23,631	2,250	19,152	1,761	469
April	21,793	2,091	17,654	1,621	427
May	22,210	2,235	18,071	1,546	359
June	22,342	1,950	18,359	1,622	411
July	23,137	1,990	19,166	1,653	328
August	23,369	2,093	19,207	1,681	388
Sept	22,155	2,001	18,153	1,643	358
October	21,966	2,030	18,083	1,491	362
Year to Date					
2015	233,634	20,970	187,026	21,541	4,097
2016	228,398	20,300	186,447	17,786	3,865
2017	226,269	20,908	185,094	16,306	3,960
Rolling 12 Months Ending in October					
2016	278,816	24,589	227,446	22,010	4,772
2017	275,590	24,891	225,979	19,999	4,722

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,994	464	13,953	2,566	11
Year 2015					
January	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
Year 2016					
January	1,398	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
Year to Date					
2015	13,771	382	11,412	1,971	6
2016	14,139	386	11,606	2,137	10
2017	13,437	361	11,027	2,042	7
Rolling 12 Months Ending in October					
2016	16,999	456	13,990	2,541	12
2017	16,292	438	13,374	2,471	8

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	2,232	0	885	1,134	213
Year 2015					
January	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
Year 2016					
January	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
Year to Date					
2015	1,646	0	539	935	172
2016	1,867	0	746	941	180
2017	1,672	0	687	809	177
Rolling 12 Months Ending in October					
2016	2,207	0	863	1,133	211
2017	2,037	0	826	1,001	210

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	19,226	464	14,838	3,700	224
Year 2015					
January	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
Year 2016					
January	1,589	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
Year to Date					
2015	15,416	382	11,951	2,906	178
2016	16,006	386	12,352	3,079	190
2017	15,109	361	11,714	2,851	183
Rolling 12 Months Ending in October					
2016	19,206	456	14,853	3,674	222
2017	18,329	438	14,201	3,472	217

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	359,983	41,036	149,516	473	168,959
Year 2015					
January	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
Year 2016					
January	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	30,150	3,583	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	29,567	3,091	13,202	15	13,258
October	32,050	3,893	14,393	33	13,731
Year to Date					
2015	338,909	36,685	142,992	449	158,784
2016	298,840	34,388	124,105	411	139,936
2017	315,566	36,444	137,824	376	140,922
Rolling 12 Months Ending in October					
2016	366,581	41,622	152,500	466	171,992
2017	376,709	43,092	163,235	438	169,944

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

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2007-October 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	969,841	10,950	22,905	4,520	931,465
Year 2015					
January	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
Year 2016					
January	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	78,631	888	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	77,354	979	1,940	233	74,202
October	79,934	933	2,085	402	76,514
Year to Date					
2015	785,522	7,691	15,868	3,078	758,885
2016	789,040	8,604	18,848	3,779	757,808
2017	810,261	10,103	20,898	3,526	775,735
Rolling 12 Months Ending in October					
2016	947,479	10,264	22,180	4,415	910,620
2017	991,063	12,449	24,955	4,267	949,391

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	2	34	-94.0%	1	0	1	33	0	0	NM	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	2	1	6.9%	0	0	1	1	0	0	NM	0
Massachusetts	0	32	-100.0%	0	0	0	32	0	0	0	0
New Hampshire	1	0	379.0%	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	1,450	1,709	-15.0%	0	0	1,439	1,692	0	0	12	16
New Jersey	38	40	-4.7%	0	0	38	40	0	0	0	0
New York	6	33	-81.0%	0	0	0	25	0	0	6	8
Pennsylvania	1,406	1,635	-14.0%	0	0	1,401	1,627	0	0	5	8
East North Central	10,941	10,781	1.5%	6,915	6,502	3,965	4,227	2	1	59	51
Illinois	2,714	2,782	-2.4%	112	68	2,557	2,678	NM	1	45	35
Indiana	2,929	2,721	7.6%	2,798	2,674	130	46	1	0	0	0
Michigan	1,667	1,661	0.3%	1,647	1,636	18	22	0	0	1	3
Ohio	1,847	2,092	-12.0%	587	612	1,260	1,480	0	0	0	0
Wisconsin	1,784	1,525	17.0%	1,770	1,512	0	0	0	0	13	13
West North Central	8,476	8,754	-3.2%	8,374	8,657	0	0	2	3	100	94
Iowa	770	1,217	-37.0%	726	1,173	0	0	1	1	43	42
Kansas	800	1,077	-26.0%	800	1,077	0	0	0	0	0	0
Minnesota	1,064	1,075	-1.0%	1,042	1,055	0	0	0	0	22	20
Missouri	3,006	2,375	27.0%	3,006	2,373	0	0	0	2	0	0
Nebraska	947	1,179	-20.0%	915	1,151	0	0	0	0	32	28
North Dakota	1,842	1,815	1.5%	1,838	1,811	0	0	0	0	3	3
South Dakota	47	16	195.0%	47	16	0	0	0	0	0	0
South Atlantic	6,597	7,384	-11.0%	5,869	6,375	709	986	1	1	19	22
Delaware	4	0	--	0	0	4	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,546	1,598	-3.3%	1,531	1,581	13	15	0	0	2	2
Georgia	1,308	1,399	-6.5%	1,305	1,396	0	0	0	0	3	3
Maryland	257	456	-44.0%	0	0	255	455	0	0	1	1
North Carolina	807	1,053	-23.0%	800	1,045	NM	4	1	1	3	3
South Carolina	432	428	1.0%	432	426	0	0	0	0	1	2
Virginia	209	451	-54.0%	186	411	15	31	0	0	8	9
West Virginia	2,034	1,999	1.8%	1,615	1,517	419	482	0	0	0	0
East South Central	4,593	5,353	-14.0%	4,425	5,158	155	184	0	0	12	11
Alabama	1,246	1,580	-21.0%	1,245	1,580	0	0	0	0	1	0
Kentucky	2,095	2,465	-15.0%	2,095	2,465	0	0	0	0	0	0
Mississippi	298	310	-3.7%	143	126	155	184	0	0	0	0
Tennessee	954	998	-4.4%	943	987	0	0	0	0	11	11
West South Central	9,906	11,732	-16.0%	3,947	5,406	5,946	6,308	0	0	12	17
Arkansas	1,019	1,346	-24.0%	836	1,103	182	243	0	0	1	1
Louisiana	540	540	0.1%	354	332	186	208	0	0	0	0
Oklahoma	901	1,470	-39.0%	783	1,330	107	124	0	0	11	17
Texas	7,445	8,377	-11.0%	1,974	2,642	5,471	5,734	0	0	0	0
Mountain	7,490	8,144	-8.0%	6,621	7,111	851	1,014	0	0	17	19
Arizona	1,442	1,583	-8.9%	1,442	1,583	0	0	0	0	0	0
Colorado	1,254	1,349	-7.1%	1,254	1,349	0	0	0	0	0	0
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	755	915	-17.0%	15	18	740	897	0	0	0	0
Nevada	36	72	-50.0%	0	34	36	38	0	0	0	0
New Mexico	793	1,131	-30.0%	793	1,131	0	0	0	0	0	0
Utah	1,173	1,127	4.2%	1,138	1,085	28	32	0	0	7	10
Wyoming	2,036	1,966	3.5%	1,980	1,912	47	46	0	0	9	8
Pacific Contiguous	615	548	12.0%	112	91	497	451	0	0	6	6
California	5	5	-3.2%	0	0	0	0	0	0	5	5
Oregon	112	91	23.0%	112	91	0	0	0	0	0	0
Washington	498	452	10.0%	0	0	497	451	0	0	1	1
Pacific Noncontiguous	103	100	3.5%	NM	19	79	77	3	3	0	0
Alaska	38	35	7.3%	NM	19	14	13	3	3	0	0
Hawaii	66	65	1.4%	0	0	66	65	0	0	0	0
U.S. Total	50,172	54,537	-8.0%	36,285	39,319	13,644	14,974	7	8	236	237

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and October 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	723	940	-23.0%	78	122	642	815	0	0	3	3
Connecticut	73	73	0.0%	0	0	73	73	0	0	0	0
Maine	12	13	-5.0%	0	0	10	10	0	0	3	3
Massachusetts	559	731	-24.0%	0	0	559	731	0	0	0	0
New Hampshire	78	122	-36.0%	78	122	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	19,333	24,064	-20.0%	0	0	19,201	23,880	0	0	132	184
New Jersey	423	477	-11.0%	0	0	423	477	0	0	0	0
New York	254	717	-65.0%	0	0	184	627	0	0	70	90
Pennsylvania	18,656	22,869	-18.0%	0	0	18,595	22,775	0	0	62	94
East North Central	119,691	120,174	-0.4%	73,483	72,362	45,597	47,220	15	20	595	572
Illinois	28,720	30,407	-5.5%	1,808	1,605	26,461	28,418	9	7	443	377
Indiana	29,321	30,053	-2.4%	28,259	28,590	1,056	1,451	6	9	0	3
Michigan	20,463	19,368	5.7%	20,272	19,155	178	184	0	4	14	25
Ohio	24,071	24,310	-1.0%	6,167	7,122	17,903	17,166	0	0	2	22
Wisconsin	17,116	16,036	6.7%	16,979	15,891	0	0	0	0	137	145
West North Central	96,450	94,681	1.9%	95,465	93,720	0	0	24	29	961	933
Iowa	12,187	11,824	3.1%	11,760	11,363	0	0	18	19	408	442
Kansas	10,425	12,127	-14.0%	10,425	12,127	0	0	0	0	0	0
Minnesota	10,937	10,880	0.5%	10,718	10,738	0	0	1	1	218	141
Missouri	33,137	30,063	10.0%	33,132	30,054	0	0	4	9	0	0
Nebraska	10,819	11,060	-2.2%	10,513	10,738	0	0	0	0	307	323
North Dakota	17,921	17,683	1.3%	17,892	17,656	0	0	0	0	28	28
South Dakota	1,024	1,043	-1.8%	1,024	1,043	0	0	0	0	0	0
South Atlantic	78,172	88,110	-11.0%	70,044	77,249	7,949	10,590	11	11	169	260
Delaware	136	220	-39.0%	0	0	136	220	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14,730	14,941	-1.4%	14,659	14,599	48	314	0	0	23	29
Georgia	14,521	16,644	-13.0%	14,494	16,606	0	0	0	0	27	38
Maryland	3,024	5,151	-41.0%	0	0	3,009	5,136	0	0	15	15
North Carolina	11,620	12,842	-9.5%	11,551	12,735	33	65	9	9	28	33
South Carolina	6,461	7,332	-12.0%	6,457	7,310	0	0	0	0	4	22
Virginia	4,420	6,483	-32.0%	4,172	6,158	175	221	2	2	72	103
West Virginia	23,259	24,495	-5.0%	18,710	19,841	4,549	4,634	0	0	0	20
East South Central	52,226	58,226	-10.0%	50,068	55,507	2,025	2,548	0	0	133	171
Alabama	13,742	14,608	-5.9%	13,731	14,592	0	0	0	0	11	16
Kentucky	23,296	26,778	-13.0%	23,296	26,778	0	0	0	0	0	0
Mississippi	3,248	3,822	-15.0%	1,223	1,274	2,025	2,548	0	0	0	0
Tennessee	11,940	13,018	-8.3%	11,818	12,862	0	0	0	0	122	156
West South Central	107,168	99,583	7.6%	49,668	48,330	57,358	51,074	0	0	143	179
Arkansas	12,640	11,448	10.0%	11,169	9,383	1,464	2,057	0	0	7	8
Louisiana	7,251	7,273	-0.3%	4,370	4,992	2,881	2,280	0	0	0	0
Oklahoma	9,493	10,053	-5.6%	8,484	8,873	873	1,008	0	0	136	171
Texas	77,784	70,809	9.9%	25,645	25,081	52,140	45,728	0	0	0	0
Mountain	76,061	74,403	2.2%	67,461	65,638	8,471	8,591	0	0	129	174
Arizona	14,089	13,787	2.2%	14,089	13,787	0	0	0	0	0	0
Colorado	13,838	13,554	2.1%	13,837	13,547	0	6	0	0	2	2
Idaho	5	5	-8.2%	0	0	0	0	0	0	5	5
Montana	7,447	7,606	-2.1%	217	203	7,229	7,401	0	0	2	2
Nevada	998	1,103	-9.5%	535	674	463	429	0	0	0	0
New Mexico	8,966	8,398	6.8%	8,966	8,398	0	0	0	0	0	0
Utah	10,142	9,823	3.2%	9,761	9,408	337	324	0	0	44	91
Wyoming	20,576	20,127	2.2%	20,056	19,622	443	431	0	0	76	73
Pacific Contiguous	3,546	3,254	9.0%	1,007	905	2,485	2,290	0	0	54	59
California	48	52	-7.7%	0	0	0	0	0	0	48	52
Oregon	1,007	905	11.0%	1,007	905	0	0	0	0	0	0
Washington	2,491	2,297	8.5%	0	0	2,485	2,290	0	0	6	7
Pacific Noncontiguous	961	1,014	-5.2%	183	212	748	769	30	30	0	2
Alaska	332	372	-11.0%	183	212	119	130	30	30	0	0
Hawaii	629	641	-1.9%	0	0	629	639	0	0	0	2
U.S. Total	554,330	564,448	-1.8%	407,457	414,045	144,476	147,777	79	89	2,317	2,537

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	27	133	-80.0%	7	4	17	126	2	2	0	1
Connecticut	10	1	583.0%	NM	0	9	1	NM	0	0	0
Maine	4	8	-47.0%	0	0	3	6	0	0	0	1
Massachusetts	7	120	-94.0%	3	1	3	118	1	2	0	0
New Hampshire	2	1	328.0%	2	0	NM	0	1	0	0	0
Rhode Island	NM	2	NM	0	2	NM	0	0	0	0	0
Vermont	2	1	65.0%	2	1	0	0	0	0	0	0
Middle Atlantic	68	65	5.2%	20	10	41	49	NM	1	5	4
New Jersey	3	3	-3.7%	NM	0	3	3	0	0	0	0
New York	36	18	99.0%	20	10	11	5	NM	0	4	2
Pennsylvania	30	44	-33.0%	0	0	28	42	0	1	NM	1
East North Central	85	62	36.0%	60	33	22	27	1	1	2	1
Illinois	7	7	-4.4%	1	1	5	6	NM	0	0	0
Indiana	23	10	118.0%	21	9	0	0	0	0	2	1
Michigan	23	14	64.0%	22	14	0	0	1	0	NM	0
Ohio	27	28	-2.2%	10	6	17	21	0	1	0	0
Wisconsin	6	3	70.0%	5	3	0	0	0	0	0	0
West North Central	47	39	20.0%	45	35	1	4	0	0	0	0
Iowa	12	13	-8.3%	12	13	NM	0	0	0	0	0
Kansas	9	4	104.0%	9	4	0	0	0	0	0	0
Minnesota	8	9	-5.0%	7	4	1	4	NM	0	0	0
Missouri	13	7	77.0%	13	7	NM	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	3	2	27.0%	3	2	0	0	0	0	0	0
South Dakota	NM	3	NM	NM	3	0	0	NM	0	0	0
South Atlantic	293	208	41.0%	203	162	76	35	9	1	5	10
Delaware	4	2	165.0%	0	1	4	1	0	0	0	0
District of Columbia	0	0	-100.0%	0	0	0	0	0	0	0	0
Florida	94	100	-6.0%	92	96	1	2	0	0	NM	2
Georgia	15	11	39.0%	9	7	NM	0	0	0	NM	3
Maryland	16	22	-25.0%	1	0	15	21	0	0	0	0
North Carolina	45	25	80.0%	42	24	NM	0	0	0	1	0
South Carolina	10	9	10.0%	9	7	0	0	0	0	1	2
Virginia	95	20	377.0%	37	8	49	10	9	1	NM	2
West Virginia	13	19	-33.0%	13	19	0	0	0	0	0	0
East South Central	41	39	3.6%	37	37	2	0	0	0	NM	2
Alabama	6	4	35.0%	2	3	2	0	0	0	NM	1
Kentucky	13	20	-35.0%	13	20	0	0	0	0	0	0
Mississippi	2	4	-54.0%	NM	3	0	0	0	0	0	1
Tennessee	20	11	81.0%	20	11	0	0	0	0	0	0
West South Central	26	14	82.0%	17	8	8	5	0	0	1	0
Arkansas	10	1	612.0%	6	1	3	0	0	0	0	0
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	2	2	23.0%	2	2	0	0	0	0	0	0
Texas	11	9	18.0%	5	4	5	5	0	0	0	0
Mountain	28	28	-0.3%	26	25	2	3	0	0	0	0
Arizona	9	7	30.0%	9	7	0	0	0	0	0	0
Colorado	2	1	63.0%	2	1	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	1	2	-24.0%	NM	0	1	2	0	0	0	0
Nevada	1	1	-28.0%	0	0	1	1	0	0	0	0
New Mexico	5	3	63.0%	5	3	0	0	0	0	0	0
Utah	5	6	-17.0%	5	6	0	1	0	0	0	0
Wyoming	4	7	-48.0%	4	7	0	0	0	0	0	0
Pacific Contiguous	14	13	14.0%	9	6	5	3	0	0	1	4
California	7	10	-25.0%	6	5	1	1	0	0	0	3
Oregon	3	0	806.0%	3	0	0	0	0	0	0	0
Washington	4	2	82.0%	NM	0	4	2	0	0	1	1
Pacific Noncontiguous	1,102	1,027	7.3%	906	835	172	170	1	1	23	21
Alaska	123	127	-3.2%	117	121	0	0	0	0	6	6
Hawaii	979	900	8.8%	790	714	172	170	0	1	17	15
U.S. Total	1,731	1,629	6.3%	1,331	1,156	346	423	15	7	40	43

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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 October 2017 and October 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	561	891	-37.0%	76	98	446	752	33	34	6	7
Connecticut	154	171	-9.9%	9	9	143	158	NM	2	0	1
Maine	98	208	-53.0%	0	0	88	197	5	5	5	6
Massachusetts	235	424	-45.0%	16	25	202	386	15	13	1	0
New Hampshire	46	56	-18.0%	35	42	NM	2	9	13	0	0
Rhode Island	19	25	-25.0%	5	15	NM	10	2	1	0	0
Vermont	10	7	35.0%	10	7	0	0	0	0	0	0
Middle Atlantic	1,146	1,628	-30.0%	392	572	683	993	21	19	49	44
New Jersey	59	99	-40.0%	1	2	58	96	0	1	NM	0
New York	683	1,020	-33.0%	391	569	249	409	12	12	31	30
Pennsylvania	404	509	-21.0%	0	2	376	487	9	7	18	14
East North Central	810	885	-8.5%	532	553	259	314	6	5	13	13
Illinois	80	114	-29.0%	13	15	66	98	NM	1	0	0
Indiana	172	170	0.9%	162	161	0	0	0	0	9	9
Michigan	192	215	-11.0%	187	211	0	0	4	2	1	1
Ohio	308	323	-4.5%	113	107	193	212	1	1	2	2
Wisconsin	58	64	-9.4%	57	59	1	4	0	0	1	1
West North Central	463	421	9.9%	448	404	13	13	1	2	1	2
Iowa	128	134	-4.3%	126	132	2	2	0	0	0	0
Kansas	88	45	94.0%	88	45	0	0	0	0	0	0
Minnesota	66	53	23.0%	53	39	NM	11	1	1	1	1
Missouri	93	123	-24.0%	93	123	NM	0	0	0	0	0
Nebraska	14	15	-5.7%	14	15	0	0	0	0	0	0
North Dakota	58	43	35.0%	58	42	0	0	0	0	0	1
South Dakota	16	9	91.0%	16	8	0	0	NM	0	0	0
South Atlantic	2,621	3,560	-26.0%	2,007	2,669	479	800	83	12	52	78
Delaware	52	107	-51.0%	1	15	52	92	0	0	0	0
District of Columbia	0	4	-100.0%	0	0	0	0	0	4	0	0
Florida	846	1,223	-31.0%	821	1,186	10	15	0	0	16	22
Georgia	166	188	-12.0%	122	119	25	41	3	3	16	25
Maryland	211	330	-36.0%	4	3	204	324	1	1	1	2
North Carolina	317	405	-22.0%	290	336	18	62	1	0	7	7
South Carolina	140	184	-24.0%	130	164	2	4	0	0	8	16
Virginia	719	943	-24.0%	471	679	166	253	77	3	5	7
West Virginia	170	176	-3.7%	168	168	2	9	0	0	0	0
East South Central	419	475	-12.0%	399	445	7	12	0	0	13	18
Alabama	57	69	-18.0%	39	43	7	11	0	0	11	14
Kentucky	153	178	-14.0%	153	178	0	0	0	0	0	0
Mississippi	20	30	-32.0%	19	28	0	0	0	0	1	2
Tennessee	189	198	-4.6%	187	196	1	0	0	0	1	2
West South Central	232	238	-2.5%	124	156	102	76	1	2	5	5
Arkansas	72	53	36.0%	30	38	41	13	0	0	2	2
Louisiana	16	27	-41.0%	16	23	0	3	0	0	0	0
Oklahoma	20	29	-29.0%	19	28	0	0	0	0	1	1
Texas	123	129	-4.6%	60	67	61	59	1	2	1	2
Mountain	345	362	-4.9%	309	313	36	40	0	0	0	9
Arizona	86	82	4.9%	86	82	0	0	0	0	0	0
Colorado	17	15	19.0%	17	15	0	0	0	0	0	0
Idaho	0	0	-80.0%	0	0	0	0	0	0	0	0
Montana	28	33	-16.0%	NM	1	27	32	0	0	0	0
Nevada	18	21	-14.0%	12	16	6	5	0	0	0	0
New Mexico	72	85	-15.0%	72	85	0	0	0	0	0	0
Utah	57	46	23.0%	54	44	2	3	0	0	0	0
Wyoming	67	81	-17.0%	67	71	0	0	0	0	0	9
Pacific Contiguous	127	164	-22.0%	78	62	26	29	1	1	22	71
California	80	132	-39.0%	57	53	8	13	0	0	15	65
Oregon	17	6	190.0%	17	6	0	0	0	0	0	0
Washington	30	26	16.0%	4	4	19	16	0	0	7	6
Pacific Noncontiguous	10,537	10,114	4.2%	8,530	8,204	1,777	1,694	10	12	220	204
Alaska	1,340	1,062	26.0%	1,274	1,010	0	0	4	2	61	50
Hawaii	9,198	9,052	1.6%	7,256	7,194	1,777	1,694	6	9	159	154
U.S. Total	17,262	18,739	-7.9%	12,895	13,478	3,829	4,723	156	85	381	453

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	2	NM	0	0	0	0	0	0	NM	2
New Jersey	1	1	-3.3%	0	0	0	0	0	0	1	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	2	NM	0	0	0	0	0	0	NM	2
East North Central	80	76	5.5%	52	26	NM	45	0	0	7	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	52	26	102.0%	44	21	0	0	0	0	7	5
Ohio	21	45	-53.0%	0	0	NM	45	0	0	0	0
Wisconsin	7	5	44.0%	7	5	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	35	33	7.0%	35	32	0	0	0	0	NM	1
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	35	32	10.0%	35	32	0	0	0	0	0	0
Georgia	NM	1	NM	0	0	0	0	0	0	NM	1
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	32	-100.0%	0	32	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	32	-100.0%	0	32	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	90	90	0.2%	84	82	0	0	0	0	6	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	86	86	-0.3%	84	82	0	0	0	0	2	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	11.0%	0	0	0	0	0	0	4	4
Mountain	15	16	-4.8%	0	0	15	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	16	-4.8%	0	0	15	16	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	1	-100.0%	0	0	0	0	0	0	0	1
California	0	1	-100.0%	0	0	0	0	0	0	0	1
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	222	250	-11.0%	171	171	36	61	0	0	15	18

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	15	19	-18.0%	0	0	0	0	0	0	15	18
New Jersey	6	5	19.0%	0	0	0	0	0	0	6	5
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	9	14	-32.0%	0	0	0	0	0	0	9	13
East North Central	711	853	-17.0%	417	434	235	360	0	0	59	60
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	159	-100.0%	0	159	0	0	0	0	0	0
Michigan	442	297	49.0%	383	244	0	1	0	0	59	52
Ohio	235	360	-35.0%	0	0	235	358	0	0	0	1
Wisconsin	35	38	-7.5%	35	31	0	0	0	0	0	7
West North Central	5	4	31.0%	0	0	0	0	2	1	3	3
Iowa	5	4	31.0%	0	0	0	0	2	1	3	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	306	708	-57.0%	286	687	0	0	0	0	20	21
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	286	687	-58.0%	286	687	0	0	0	0	0	0
Georgia	20	21	-4.6%	0	0	0	0	0	0	20	21
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	166	378	-56.0%	166	378	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	166	378	-56.0%	166	378	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	1,466	1,506	-2.7%	1,396	1,429	0	0	0	0	70	77
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,427	1,464	-2.5%	1,396	1,429	0	0	0	0	31	35
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	39	43	-8.2%	0	0	0	0	0	0	39	43
Mountain	134	131	2.6%	0	0	134	131	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	134	131	2.6%	0	0	134	131	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	13	-100.0%	0	0	0	0	0	0	0	13
California	0	13	-100.0%	0	0	0	0	0	0	0	13
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,804	3,611	-22.0%	2,266	2,927	369	491	2	1	167	192

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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, October 2017 and October 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	28,521	26,502	7.6%	NM	159	27,234	25,543	410	377	482	422
Connecticut	9,776	10,036	-2.6%	42	31	9,338	9,627	176	178	220	201
Maine	NM	1,909	NM	0	0	NM	1,764	13	10	146	135
Massachusetts	11,859	9,195	29.0%	NM	127	11,265	8,835	196	161	99	72
New Hampshire	1,688	2,383	-29.0%	54	0	1,614	2,362	3	6	16	15
Rhode Island	NM	2,976	NM	0	0	NM	2,955	22	21	0	0
Vermont	0	2	-91.0%	0	2	0	0	0	0	0	0
Middle Atlantic	96,112	97,039	-1.0%	5,379	6,713	89,262	88,923	524	492	947	911
New Jersey	20,711	26,594	-22.0%	NM	218	20,282	26,137	77	80	163	159
New York	29,161	30,859	-5.5%	5,179	6,487	23,411	23,826	395	366	176	181
Pennsylvania	46,240	39,586	17.0%	10	8	45,569	38,959	52	47	609	571
East North Central	65,338	57,787	13.0%	28,160	23,603	34,577	32,276	612	626	1,989	1,282
Illinois	10,362	12,026	-14.0%	NM	879	8,434	10,556	158	177	409	413
Indiana	11,506	11,046	4.2%	9,549	9,580	969	1,109	75	93	912	265
Michigan	17,872	15,647	14.0%	5,956	5,691	11,204	9,288	247	247	466	421
Ohio	15,592	14,215	9.7%	NM	3,303	13,371	10,760	105	84	73	67
Wisconsin	10,005	4,853	106.0%	9,250	4,149	599	563	28	25	129	116
West North Central	16,491	11,256	47.0%	14,291	10,274	NM	697	130	93	247	191
Iowa	2,840	1,216	134.0%	2,617	1,098	0	0	46	34	176	84
Kansas	2,548	1,269	101.0%	2,540	1,253	0	0	0	0	8	16
Minnesota	5,559	3,313	68.0%	4,591	2,562	899	685	29	25	39	41
Missouri	NM	2,810	NM	NM	2,752	NM	12	53	33	11	13
Nebraska	321	454	-29.0%	319	452	0	0	2	1	0	1
North Dakota	892	1,695	-47.0%	878	1,658	0	0	0	0	13	37
South Dakota	542	499	8.7%	542	499	0	0	0	0	0	0
South Atlantic	203,654	183,165	11.0%	164,781	147,670	36,356	33,025	494	423	2,024	2,047
Delaware	4,132	5,842	-29.0%	39	70	3,677	5,273	0	0	416	500
District of Columbia	0	45	-100.0%	0	0	0	0	0	45	0	0
Florida	106,752	97,682	9.3%	99,614	90,482	6,505	6,580	11	14	622	605
Georgia	30,205	26,352	15.0%	21,704	21,413	8,229	4,611	0	0	273	328
Maryland	3,748	3,625	3.4%	0	0	3,238	3,241	469	354	41	30
North Carolina	22,619	18,598	22.0%	19,471	14,661	3,077	3,873	9	6	62	58
South Carolina	11,867	10,834	9.5%	9,263	9,644	2,532	1,156	0	1	72	34
Virginia	22,046	18,398	20.0%	14,489	11,307	7,204	6,753	4	3	348	335
West Virginia	2,285	1,789	28.0%	200	94	1,894	1,538	0	0	191	158
East South Central	68,920	69,715	-1.1%	48,246	46,957	19,702	21,789	72	67	901	902
Alabama	31,092	30,840	0.8%	12,507	8,678	18,092	21,721	0	0	494	442
Kentucky	5,470	4,785	14.0%	4,862	4,650	520	59	0	0	88	76
Mississippi	26,006	27,401	-5.1%	24,757	27,224	1,080	9	0	0	169	168
Tennessee	6,352	6,688	-5.0%	6,121	6,404	10	1	72	67	150	216
West South Central	180,449	179,097	0.8%	65,284	62,620	86,844	85,767	232	338	28,090	30,371
Arkansas	10,272	8,847	16.0%	4,412	3,943	5,728	4,776	0	31	133	97
Louisiana	35,982	34,719	3.6%	22,974	19,829	2,590	2,548	NM	54	10,386	12,288
Oklahoma	18,284	18,934	-3.4%	11,827	12,913	6,221	5,919	0	0	236	101
Texas	115,911	116,597	-0.6%	26,072	25,935	72,305	72,524	200	253	17,335	17,885
Mountain	56,103	55,262	1.5%	41,603	37,661	13,142	16,452	202	182	1,155	967
Arizona	21,648	20,831	3.9%	13,433	10,009	8,161	10,772	53	50	0	0
Colorado	6,167	5,701	8.2%	5,080	4,810	1,057	859	0	12	30	20
Idaho	2,093	1,391	51.0%	1,183	426	858	914	15	10	38	41
Montana	436	405	7.6%	322	336	111	68	0	0	3	1
Nevada	16,731	15,147	10.0%	15,123	13,618	1,351	1,334	22	20	235	176
New Mexico	6,038	6,949	-13.0%	4,577	4,563	1,411	2,333	49	50	0	3
Utah	2,540	4,407	-42.0%	1,829	3,853	193	172	64	40	455	342
Wyoming	450	430	4.5%	55	45	0	0	0	0	395	385
Pacific Contiguous	79,657	78,715	1.2%	28,545	30,375	44,557	41,359	1,043	1,077	5,511	5,905
California	61,464	66,619	-7.7%	19,316	23,195	35,711	36,532	1,015	1,056	5,422	5,836
Oregon	10,274	7,788	32.0%	4,055	4,367	6,157	3,367	19	16	43	38
Washington	7,919	4,308	84.0%	5,174	2,813	2,690	1,460	8	5	46	31
Pacific Noncontiguous	2,749	2,073	33.0%	2,732	2,055	0	0	0	0	17	18
Alaska	2,749	2,073	33.0%	2,732	2,055	0	0	0	0	17	18
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	797,995	760,610	4.9%	399,415	368,087	353,498	345,831	3,719	3,675	41,363	43,017

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	309,986	337,154	-8.1%	3,825	3,153	297,383	324,990	3,920	4,400	4,858	4,611
Connecticut	93,577	107,113	-13.0%	594	339	89,127	102,724	1,655	1,857	2,201	2,193
Maine	18,237	21,799	-16.0%	0	0	16,681	20,349	128	119	1,429	1,331
Massachusetts	139,185	138,030	0.8%	NM	2,353	133,390	132,629	1,896	2,135	1,063	913
New Hampshire	22,896	28,815	-21.0%	383	451	22,313	28,112	34	78	165	174
Rhode Island	36,077	41,383	-13.0%	0	0	35,872	41,176	205	207	0	0
Vermont	13	15	-9.0%	10	11	0	0	3	4	0	0
Middle Atlantic	953,666	1,094,849	-13.0%	79,158	97,602	860,004	982,309	5,213	5,548	9,292	9,391
New Jersey	232,894	276,546	-16.0%	NM	2,252	228,553	271,880	803	824	1,576	1,590
New York	338,947	394,156	-14.0%	77,137	95,264	256,211	292,960	3,847	4,209	1,751	1,723
Pennsylvania	381,825	424,148	-10.0%	58	86	375,240	417,469	563	515	5,965	6,078
East North Central	676,617	735,154	-8.0%	296,328	332,464	354,667	383,343	6,232	6,466	19,390	12,881
Illinois	134,018	132,448	1.2%	18,473	12,566	109,811	114,052	1,636	1,578	4,097	4,252
Indiana	118,801	125,780	-5.5%	94,509	101,756	14,686	20,846	829	858	8,778	2,319
Michigan	164,766	195,408	-16.0%	60,763	78,071	97,049	110,111	2,371	2,602	4,583	4,624
Ohio	176,190	179,284	-1.7%	48,982	48,132	125,409	129,865	1,112	903	686	383
Wisconsin	82,842	102,235	-19.0%	73,602	91,938	7,711	8,468	284	525	1,245	1,303
West North Central	154,300	160,087	-3.6%	133,606	134,465	17,365	21,871	1,241	1,395	2,087	2,356
Iowa	23,904	19,978	20.0%	22,302	18,930	NM	0	383	401	1,219	648
Kansas	20,341	18,108	12.0%	20,179	17,863	0	0	0	0	161	245
Minnesota	48,096	59,439	-19.0%	39,936	47,427	7,234	10,357	427	528	498	1,127
Missouri	43,811	42,133	4.0%	33,127	30,031	10,130	11,514	422	455	131	133
Nebraska	4,973	4,953	0.4%	4,964	4,933	0	0	10	11	0	9
North Dakota	7,681	8,924	-14.0%	7,604	8,729	0	0	0	0	77	195
South Dakota	5,495	6,552	-16.0%	5,495	6,552	0	0	0	0	0	0
South Atlantic	2,079,778	2,093,411	-0.7%	1,679,886	1,672,180	374,042	397,636	5,326	5,518	20,524	18,077
Delaware	46,490	52,483	-11.0%	177	632	42,246	47,617	0	0	4,067	4,234
District of Columbia	542	518	4.7%	0	0	0	0	542	517	0	0
Florida	1,026,986	1,032,277	-0.5%	952,386	936,131	68,178	89,522	112	149	6,311	6,475
Georgia	320,482	330,994	-3.2%	241,309	252,637	75,914	75,954	0	0	3,259	2,403
Maryland	47,410	52,101	-9.0%	0	0	42,478	47,034	4,563	4,741	369	326
North Carolina	236,790	248,427	-4.7%	204,373	213,249	31,810	34,602	66	60	541	516
South Carolina	112,198	110,800	1.3%	97,305	90,467	14,217	20,067	2	7	674	259
Virginia	276,464	255,529	8.2%	182,786	177,690	90,000	74,544	41	43	3,637	3,252
West Virginia	12,417	10,283	21.0%	1,551	1,375	9,198	8,295	0	0	1,668	613
East South Central	752,475	798,783	-5.8%	515,151	526,216	226,565	262,632	735	775	10,025	9,160
Alabama	318,288	343,544	-7.4%	111,399	101,745	201,631	236,647	0	0	5,258	5,152
Kentucky	71,300	57,622	24.0%	67,013	51,676	3,454	5,068	0	0	833	878
Mississippi	292,596	319,553	-8.4%	269,483	296,929	21,355	20,907	21	0	1,737	1,718
Tennessee	70,290	78,064	-10.0%	67,255	75,866	124	10	714	775	2,197	1,413
West South Central	1,902,795	2,166,898	-12.0%	643,838	785,516	954,962	1,057,107	3,255	3,985	300,740	320,290
Arkansas	110,388	114,356	-3.5%	44,010	48,346	65,226	64,508	0	370	1,152	1,132
Louisiana	348,548	416,962	-16.0%	203,991	248,115	26,277	39,258	483	635	117,796	128,955
Oklahoma	203,421	240,090	-15.0%	130,224	168,296	71,537	70,679	0	0	1,660	1,115
Texas	1,240,438	1,395,490	-11.0%	265,613	320,759	791,922	882,662	2,771	2,980	180,132	189,088
Mountain	573,220	649,756	-12.0%	438,668	480,936	122,048	156,381	1,836	2,001	10,668	10,438
Arizona	195,098	234,321	-17.0%	128,873	136,665	65,697	97,084	528	572	0	0
Colorado	80,204	80,712	-0.6%	65,452	67,043	14,471	13,377	0	12	281	280
Idaho	17,131	21,443	-20.0%	9,852	12,552	6,667	8,207	142	152	470	532
Montana	4,341	4,732	-8.3%	3,481	3,953	847	762	0	0	14	17
Nevada	166,939	177,087	-5.7%	152,146	162,021	12,466	12,791	204	229	2,123	2,046
New Mexico	65,022	70,419	-7.7%	44,384	47,226	20,157	22,665	468	513	14	14
Utah	40,080	56,608	-29.0%	33,470	50,229	1,730	1,483	494	524	4,386	4,372
Wyoming	4,405	4,435	-0.7%	1,011	1,248	13	12	0	0	3,381	3,176
Pacific Contiguous	655,812	745,160	-12.0%	250,478	285,774	339,233	392,209	9,695	9,721	56,407	57,456
California	532,010	592,538	-10.0%	186,997	204,769	279,915	321,612	9,498	9,480	55,600	56,677
Oregon	65,792	86,384	-24.0%	27,688	40,911	37,568	44,897	146	169	390	407
Washington	58,010	66,237	-12.0%	35,793	40,094	21,749	25,700	51	71	417	372
Pacific Noncontiguous	22,195	23,458	-5.4%	21,949	23,232	0	0	22	4	224	221
Alaska	22,195	23,458	-5.4%	21,949	23,232	0	0	22	4	224	221
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	8,080,844	8,804,710	-8.2%	4,062,885	4,341,538	3,546,269	3,978,477	37,474	39,813	434,215	444,882

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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, October 2017 and October 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	802	897	-11.0%	0	0	778	880	24	17	0	0
Connecticut	NM	38	NM	0	0	NM	38	0	0	0	0
Maine	NM	63	NM	0	0	NM	63	0	0	0	0
Massachusetts	344	338	1.8%	0	0	344	338	0	0	0	0
New Hampshire	86	130	-33.0%	0	0	NM	113	24	17	0	0
Rhode Island	252	294	-14.0%	0	0	252	294	0	0	0	0
Vermont	NM	34	NM	0	0	NM	34	0	0	0	0
Middle Atlantic	4,173	3,812	9.5%	0	0	3,986	3,660	74	61	113	91
New Jersey	654	670	-2.3%	0	0	629	644	NM	26	0	0
New York	1,240	1,440	-14.0%	0	0	1,240	1,440	0	0	0	0
Pennsylvania	2,279	1,702	34.0%	0	0	2,117	1,575	NM	36	113	91
East North Central	5,148	4,336	19.0%	595	489	4,512	3,818	28	11	12	18
Illinois	959	747	28.0%	24	24	935	723	0	0	0	0
Indiana	667	532	25.0%	561	454	104	77	0	0	NM	1
Michigan	1,697	1,444	17.0%	0	0	1,697	1,444	0	0	0	0
Ohio	890	746	19.0%	0	0	890	746	0	0	0	0
Wisconsin	935	867	7.9%	NM	11	887	828	28	11	10	17
West North Central	940	981	-4.3%	272	298	667	684	0	0	0	0
Iowa	216	234	-7.9%	0	0	216	234	0	0	0	0
Kansas	NM	111	NM	0	0	NM	111	0	0	0	0
Minnesota	312	303	2.9%	NM	67	245	237	0	0	0	0
Missouri	163	182	-11.0%	NM	81	NM	102	0	0	0	0
Nebraska	136	150	-9.8%	136	150	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	3,811	2,923	30.0%	384	343	3,144	2,331	99	95	184	154
Delaware	NM	102	NM	0	0	NM	91	0	0	NM	11
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	584	605	-3.4%	138	133	446	470	0	1	0	1
Georgia	366	358	2.2%	0	0	328	335	0	0	37	23
Maryland	219	223	-1.7%	0	0	156	158	NM	65	0	0
North Carolina	905	92	880.0%	0	0	888	84	NM	8	0	0
South Carolina	404	352	15.0%	237	205	NM	28	0	0	134	120
Virginia	1,226	1,192	2.8%	9	5	1,198	1,166	NM	21	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	440	494	-11.0%	172	197	268	297	0	0	0	0
Alabama	NM	99	NM	0	0	NM	99	0	0	0	0
Kentucky	182	224	-19.0%	172	197	10	27	0	0	0	0
Mississippi	NM	23	NM	0	0	NM	23	0	0	0	0
Tennessee	151	148	2.1%	0	0	151	148	0	0	0	0
West South Central	1,151	1,358	-15.0%	0	0	1,098	1,308	54	51	0	0
Arkansas	128	100	28.0%	0	0	128	100	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	32	NM	0	0	NM	32	0	0	0	0
Texas	993	1,227	-19.0%	0	0	939	1,176	54	51	0	0
Mountain	524	513	2.1%	NM	19	467	447	39	46	0	0
Arizona	NM	68	NM	0	0	NM	68	0	0	0	0
Colorado	NM	104	NM	0	0	NM	104	0	0	0	0
Idaho	NM	79	NM	NM	19	NM	45	20	15	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	117	NM	0	0	NM	117	0	0	0	0
New Mexico	NM	2	NM	0	0	NM	2	0	0	0	0
Utah	164	143	14.0%	0	0	NM	112	18	31	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,515	4,990	-9.5%	589	576	2,919	3,158	1,007	1,256	0	0
California	3,700	4,191	-12.0%	204	206	2,526	2,766	969	1,218	0	0
Oregon	474	442	7.2%	118	122	318	282	NM	38	0	0
Washington	341	357	-4.3%	267	247	NM	110	0	0	0	0
Pacific Noncontiguous	74	72	2.4%	0	0	0	0	74	72	0	0
Alaska	74	72	2.4%	0	0	0	0	74	72	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,577	20,377	5.9%	2,029	1,922	17,840	16,583	1,398	1,610	309	263

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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 October 2017 and October 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	9,008	9,451	-4.7%	0	0	8,808	9,288	200	164	0	0
Connecticut	364	399	-8.6%	0	0	364	399	0	0	0	0
Maine	566	611	-7.5%	0	0	566	611	0	0	0	0
Massachusetts	3,558	3,439	3.5%	0	0	3,558	3,439	0	0	0	0
New Hampshire	859	1,176	-27.0%	0	0	660	1,013	200	164	0	0
Rhode Island	3,351	3,468	-3.4%	0	0	3,351	3,468	0	0	0	0
Vermont	308	357	-14.0%	0	0	308	357	0	0	0	0
Middle Atlantic	44,243	44,301	-0.1%	0	0	42,179	42,476	793	695	1,272	1,129
New Jersey	6,434	6,740	-4.5%	0	0	6,180	6,487	254	253	0	0
New York	13,249	13,308	-0.4%	0	0	13,249	13,308	0	0	0	0
Pennsylvania	24,560	24,253	1.3%	0	0	22,749	22,681	539	442	1,272	1,129
East North Central	53,190	51,255	3.8%	6,534	5,706	46,168	45,225	301	123	189	201
Illinois	10,282	10,379	-0.9%	340	338	9,942	10,041	0	0	0	0
Indiana	7,069	6,151	15.0%	6,084	5,249	977	892	0	0	NM	10
Michigan	17,350	16,476	5.3%	0	0	17,350	16,476	0	0	0	0
Ohio	8,931	8,621	3.6%	0	0	8,931	8,621	0	0	0	0
Wisconsin	9,559	9,629	-0.7%	NM	119	8,967	9,196	301	123	181	191
West North Central	9,031	9,375	-3.7%	2,886	2,896	6,145	6,480	0	0	0	0
Iowa	1,473	2,138	-31.0%	0	0	1,473	2,138	0	0	0	0
Kansas	1,169	1,054	11.0%	0	0	1,169	1,054	0	0	0	0
Minnesota	3,240	3,027	7.1%	707	634	2,533	2,393	0	0	0	0
Missouri	1,714	1,607	6.7%	743	711	971	895	0	0	0	0
Nebraska	1,436	1,551	-7.4%	1,436	1,551	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	37,838	37,641	0.5%	3,871	3,729	31,240	30,445	993	1,589	1,735	1,878
Delaware	1,118	1,137	-1.7%	0	0	994	1,015	0	0	124	122
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,905	6,477	-8.8%	1,322	1,396	4,583	5,064	0	6	0	10
Georgia	3,237	3,973	-19.0%	0	0	2,974	3,564	0	0	263	409
Maryland	2,246	2,222	1.1%	0	0	1,616	1,572	630	650	0	0
North Carolina	8,962	8,093	11.0%	0	0	8,787	7,372	175	721	0	0
South Carolina	4,166	3,931	6.0%	2,484	2,287	334	308	0	0	1,348	1,336
Virginia	12,205	11,808	3.4%	65	46	11,951	11,551	189	211	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,568	4,541	0.6%	1,773	1,800	2,795	2,741	0	0	0	0
Alabama	924	904	2.3%	0	0	924	904	0	0	0	0
Kentucky	1,904	2,049	-7.1%	1,773	1,800	131	249	0	0	0	0
Mississippi	175	161	9.0%	0	0	175	161	0	0	0	0
Tennessee	1,565	1,428	9.6%	0	0	1,565	1,428	0	0	0	0
West South Central	12,668	12,533	1.1%	0	0	12,245	12,089	423	444	0	0
Arkansas	1,324	1,205	9.8%	0	0	1,324	1,205	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	314	303	3.8%	0	0	314	303	0	0	0	0
Texas	11,030	11,025	0.0%	0	0	10,607	10,581	423	444	0	0
Mountain	5,343	5,362	-0.4%	185	203	4,786	4,679	372	479	0	0
Arizona	747	707	5.6%	0	0	747	707	0	0	0	0
Colorado	900	1,086	-17.0%	0	0	900	1,086	0	0	0	0
Idaho	700	822	-15.0%	185	203	350	467	166	152	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,315	1,225	7.4%	0	0	1,315	1,225	0	0	0	0
New Mexico	NM	24	NM	0	0	NM	24	0	0	0	0
Utah	1,653	1,498	10.0%	0	0	1,447	1,170	206	327	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	45,819	49,909	-8.2%	5,655	5,964	28,506	31,142	11,658	12,804	0	0
California	37,645	41,789	-9.9%	1,654	2,400	24,709	27,006	11,282	12,383	0	0
Oregon	4,609	4,889	-5.7%	1,211	1,351	3,022	3,118	375	420	0	0
Washington	3,565	3,231	10.0%	2,790	2,212	775	1,019	0	0	0	0
Pacific Noncontiguous	635	632	0.5%	0	0	0	0	635	632	0	0
Alaska	635	632	0.5%	0	0	0	0	635	632	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	222,343	225,000	-1.2%	20,903	20,298	182,872	184,565	15,373	16,929	3,196	3,208

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	295	311	-5.3%	0	0	278	295	17	17	0	0
Connecticut	101	107	-5.7%	0	0	101	107	0	0	0	0
Maine	26	26	-2.7%	0	0	9	10	17	17	0	0
Massachusetts	157	167	-5.9%	0	0	157	167	0	0	0	0
New Hampshire	11	11	1.5%	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	455	460	-1.2%	0	0	361	370	94	91	0	0
New Jersey	118	124	-5.6%	0	0	88	97	30	27	0	0
New York	169	180	-6.1%	0	0	126	131	43	49	0	0
Pennsylvania	168	156	7.9%	0	0	147	142	21	14	0	0
East North Central	18	21	-15.0%	3	3	0	0	15	18	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-3.4%	0	0	0	0	1	1	0	0
Michigan	14	17	-17.0%	0	0	0	0	14	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-6.7%	3	3	0	0	0	0	0	0
West North Central	52	57	-8.4%	30	34	22	22	0	1	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	52	57	-8.4%	30	34	22	22	0	1	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	384	417	-7.9%	0	0	340	374	45	44	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	280	280	0.0%	0	0	280	280	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	59	43	37.0%	0	0	59	43	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	45	94	-52.0%	0	0	0	50	45	44	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	-10.0%	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	-10.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	51	66	-23.0%	0	0	51	66	0	0	0	0
California	27	42	-35.0%	0	0	27	42	0	0	0	0
Oregon	10	10	-4.5%	0	0	10	10	0	0	0	0
Washington	14	14	1.2%	0	0	14	14	0	0	0	0
Pacific Noncontiguous	40	43	-7.8%	0	0	0	0	40	43	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	40	43	-7.8%	0	0	0	0	40	43	0	0
U.S. Total	1,296	1,378	-5.9%	33	37	1,051	1,127	210	213	1	1

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	3,021	3,122	-3.3%	0	0	2,851	2,966	170	157	0	0
Connecticut	1,036	1,108	-6.6%	0	0	1,036	1,108	0	0	0	0
Maine	265	252	5.1%	0	0	95	95	170	157	0	0
Massachusetts	1,615	1,661	-2.7%	0	0	1,615	1,661	0	0	0	0
New Hampshire	105	101	3.5%	0	0	105	101	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,502	4,502	0.0%	0	0	3,589	3,545	913	957	0	0
New Jersey	1,191	1,194	-0.3%	0	0	899	905	292	289	0	0
New York	1,659	1,697	-2.2%	0	0	1,249	1,230	411	467	0	0
Pennsylvania	1,652	1,611	2.5%	0	0	1,441	1,410	211	201	0	0
East North Central	199	209	-5.0%	30	32	0	0	168	177	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	15	15	-0.2%	0	0	0	0	15	15	0	0
Michigan	154	162	-5.4%	0	0	0	0	154	162	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	30	32	-5.5%	30	32	0	0	0	0	0	0
West North Central	526	543	-3.2%	330	354	196	180	0	9	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	526	543	-3.2%	330	354	196	180	0	9	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	4,213	4,777	-12.0%	0	0	3,777	4,312	436	465	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,184	3,302	-3.6%	0	0	3,184	3,302	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	527	527	0.0%	0	0	527	527	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	502	949	-47.0%	0	0	66	483	436	465	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	7	10	-34.0%	0	0	0	0	0	0	7	10
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	7	10	-34.0%	0	0	0	0	0	0	7	10
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	3	-82.0%	0	0	0	3	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	3	-82.0%	0	0	0	3	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	614	601	2.2%	0	0	614	601	0	0	0	0
California	390	368	5.8%	0	0	390	368	0	0	0	0
Oregon	91	95	-4.3%	0	0	91	95	0	0	0	0
Washington	134	138	-3.2%	0	0	134	138	0	0	0	0
Pacific Noncontiguous	355	372	-4.6%	0	0	0	0	355	372	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	355	372	-4.6%	0	0	0	0	355	372	0	0
U.S. Total	13,437	14,139	-5.0%	361	386	11,027	11,606	2,042	2,137	7	10

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	5,157	4,173	24.0%	809	755	3,968	3,061	1	1	380	357
Connecticut	386	228	69.0%	0	0	386	228	0	0	0	0
Maine	2,006	1,432	40.0%	0	0	1,626	1,075	0	0	380	357
Massachusetts	NM	172	NM	0	0	NM	172	0	0	0	0
New Hampshire	2,025	1,867	8.5%	436	473	1,589	1,394	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	557	475	17.0%	373	282	NM	192	0	1	0	0
Middle Atlantic	1,132	1,026	10.0%	0	0	552	470	0	0	580	557
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	646	556	16.0%	0	0	552	470	0	0	93	86
Pennsylvania	487	471	3.4%	0	0	0	0	0	0	487	471
East North Central	2,385	1,702	40.0%	556	174	1,189	894	0	0	641	635
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,475	1,202	23.0%	0	0	1,178	881	0	0	297	321
Ohio	102	106	-3.7%	0	0	11	13	0	0	91	93
Wisconsin	808	394	105.0%	556	174	0	0	0	0	252	221
West North Central	972	846	15.0%	177	185	554	368	26	15	215	279
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	946	831	14.0%	177	185	554	368	0	0	215	279
Missouri	26	15	72.0%	0	0	0	0	26	15	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	10,740	8,343	29.0%	1,919	1,009	3,545	2,169	7	13	5,269	5,151
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	1,927	1,554	24.0%	0	0	1,205	921	0	0	722	633
Georgia	2,738	2,488	10.0%	0	0	738	541	0	0	2,000	1,947
Maryland	43	70	-39.0%	0	0	0	0	7	13	36	57
North Carolina	1,437	942	52.0%	0	0	816	362	0	0	621	581
South Carolina	1,390	1,273	9.2%	154	85	484	320	0	0	753	869
Virginia	3,205	2,015	59.0%	1,766	924	303	26	0	0	1,137	1,065
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,904	3,015	-3.7%	0	0	198	231	0	0	2,706	2,784
Alabama	1,840	1,961	-6.2%	0	0	198	231	0	0	1,642	1,730
Kentucky	134	109	23.0%	0	0	0	0	0	0	134	109
Mississippi	618	630	-1.8%	0	0	0	0	0	0	618	630
Tennessee	312	316	-1.3%	0	0	0	0	0	0	312	316
West South Central	2,575	2,458	4.8%	0	0	241	0	0	0	2,334	2,458
Arkansas	577	525	9.8%	0	0	0	0	0	0	577	525
Louisiana	1,233	1,413	-13.0%	0	0	0	0	0	0	1,233	1,413
Oklahoma	166	162	2.6%	0	0	0	0	0	0	166	162
Texas	600	358	68.0%	0	0	241	0	0	0	359	358
Mountain	472	565	-16.0%	0	0	392	415	0	0	80	149
Arizona	280	263	6.6%	0	0	280	263	0	0	0	0
Colorado	87	126	-31.0%	0	0	87	126	0	0	0	0
Idaho	85	157	-46.0%	0	0	25	27	0	0	60	130
Montana	20	19	4.1%	0	0	0	0	0	0	20	19
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	5,713	5,470	4.4%	432	452	3,754	3,531	0	0	1,528	1,487
California	3,889	3,496	11.0%	0	0	3,464	3,171	0	0	424	325
Oregon	641	694	-7.7%	0	0	289	360	0	0	351	334
Washington	1,184	1,281	-7.6%	432	452	0	0	0	0	752	828
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	32,050	27,598	16.0%	3,893	2,574	14,393	11,139	33	29	13,731	13,857

Displayed values of zero may 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 for 2017 are preliminary. Values for 2016 are final. 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 October 2017 and October 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	51,578	49,553	4.1%	7,078	7,663	39,976	37,621	44	17	4,479	4,252
Connecticut	3,936	3,724	5.7%	0	0	3,936	3,724	0	0	0	0
Maine	20,948	20,055	4.5%	0	0	16,433	15,794	36	8	4,479	4,252
Massachusetts	1,944	1,877	3.5%	0	0	1,944	1,877	0	0	0	0
New Hampshire	19,642	18,523	6.0%	3,831	4,016	15,811	14,508	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	5,108	5,373	-4.9%	3,247	3,648	1,852	1,717	8	8	0	0
Middle Atlantic	11,352	10,536	7.7%	0	0	5,683	5,091	0	0	5,669	5,445
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	6,571	5,973	10.0%	0	0	5,682	5,076	0	0	889	897
Pennsylvania	4,781	4,563	4.8%	0	0	1	15	0	0	4,779	4,548
East North Central	21,867	19,900	9.9%	4,405	3,568	11,055	9,817	0	0	6,407	6,514
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13,880	12,742	8.9%	0	0	10,930	9,685	0	0	2,950	3,056
Ohio	1,059	1,083	-2.2%	0	0	125	131	0	0	934	951
Wisconsin	6,928	6,076	14.0%	4,405	3,568	0	0	0	0	2,523	2,507
West North Central	9,366	7,909	18.0%	1,826	1,706	4,844	3,641	298	284	2,398	2,278
Iowa	10	5	111.0%	0	0	0	0	10	5	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	9,095	7,660	19.0%	1,826	1,706	4,844	3,641	26	36	2,398	2,278
Missouri	261	244	7.3%	0	0	0	0	261	244	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	105,147	96,849	8.6%	18,795	17,118	32,678	26,573	34	109	53,640	53,049
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	16,937	13,517	25.0%	0	0	9,419	6,119	0	0	7,518	7,398
Georgia	27,152	25,737	5.5%	0	0	7,262	5,916	0	0	19,891	19,822
Maryland	550	597	-7.8%	0	0	0	0	34	109	516	488
North Carolina	13,443	12,114	11.0%	0	0	7,700	6,794	0	0	5,743	5,320
South Carolina	15,809	15,281	3.5%	1,520	1,382	5,590	5,269	0	0	8,699	8,631
Virginia	31,256	29,603	5.6%	17,275	15,736	2,707	2,476	0	0	11,274	11,391
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	30,615	30,478	0.5%	0	0	2,043	2,056	0	0	28,572	28,421
Alabama	19,809	19,615	1.0%	0	0	2,043	2,056	0	0	17,766	17,559
Kentucky	1,367	1,363	0.3%	0	0	0	0	0	0	1,367	1,363
Mississippi	5,846	6,040	-3.2%	0	0	0	0	0	0	5,846	6,040
Tennessee	3,593	3,460	3.9%	0	0	0	0	0	0	3,593	3,460
West South Central	24,891	25,503	-2.4%	0	337	1,218	1,449	0	0	23,672	23,717
Arkansas	5,667	5,345	6.0%	0	0	0	0	0	0	5,667	5,345
Louisiana	12,997	13,281	-2.1%	0	0	0	0	0	0	12,997	13,281
Oklahoma	1,288	1,375	-6.3%	0	0	0	0	0	0	1,288	1,375
Texas	4,938	5,501	-10.0%	0	337	1,218	1,449	0	0	3,720	3,716
Mountain	5,662	5,613	0.9%	0	0	4,303	4,081	0	0	1,359	1,531
Arizona	2,949	2,811	4.9%	0	0	2,949	2,811	0	0	0	0
Colorado	1,101	999	10.0%	0	0	1,101	999	0	0	0	0
Idaho	1,406	1,609	-13.0%	0	0	253	272	0	0	1,154	1,337
Montana	205	194	5.9%	0	0	0	0	0	0	205	194
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	55,090	52,500	4.9%	4,340	3,996	36,024	33,776	0	0	14,726	14,727
California	36,941	35,062	5.4%	0	0	33,256	31,257	0	0	3,685	3,805
Oregon	6,192	5,835	6.1%	0	0	2,768	2,519	0	0	3,424	3,316
Washington	11,957	11,602	3.1%	4,340	3,996	0	0	0	0	7,617	7,606
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	315,566	298,840	5.6%	36,444	34,388	137,824	124,105	376	411	140,922	139,936

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Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2007 - October 2017

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	162,009	31,702	845	130,885	20,920	603	31,124	10,781	241
Year 2015, End of Month Stocks									
January	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
Year 2016, End of Month Stocks									
January	187,203	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	35,481	780	128,256	20,846	589	30,652	14,635	191
Sept	156,567	35,555	768	127,532	20,925	566	29,035	14,630	201
October	160,932	35,754	813	131,510	21,022	606	29,422	14,732	207
November	170,277	31,920	833	138,091	21,192	606	32,185	10,727	227
December	162,009	31,702	845	130,885	20,920	603	31,124	10,781	241
Year 2017, End of Month Stocks									
January	156,175	31,468	794	125,187	20,714	542	30,988	10,754	252
February	160,447	31,094	821	128,010	20,442	551	32,438	10,652	270
March	161,691	31,622	855	128,575	21,144	566	33,116	10,478	289
April	163,726	31,325	933	130,310	21,030	630	33,416	10,295	304
May	162,396	30,891	881	129,229	20,604	570	33,167	10,286	312
June	157,717	30,545	867	126,381	20,543	542	31,336	10,002	325
July	145,518	30,466	875	117,574	20,548	552	27,944	9,917	323
August	141,672	30,068	918	114,013	20,225	576	27,659	9,843	341
Sept	139,531	29,643	987	113,336	20,051	632	26,195	9,592	356
October	141,169	29,642	1,056	114,806	20,002	690	26,363	9,641	366

Notes: See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, October 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	October 2017	October 2016	Percentage Change	October 2017	October 2016	Percentage Change	October 2017	October 2016	Percentage Change
New England	W	1,839	W	3,891	4,539	-14.3%	0	0	--
Connecticut	W	W	W	1,404	1,618	-13.2%	0	0	--
Maine	0	0	--	389	482	-19.3%	0	0	--
Massachusetts	W	W	W	1,572	1,856	-15.3%	0	0	--
New Hampshire	W	W	W	336	374	-10.0%	0	0	--
Rhode Island	W	W	W	149	156	-4.2%	0	0	--
Vermont	0	0	--	41	53	-22.2%	0	0	--
Middle Atlantic	4,656	4,751	-2.0%	5,399	9,622	-43.9%	0	W	W
New Jersey	141	787	-82.2%	625	685	-8.8%	0	0	--
New York	W	W	W	3,542	7,566	-53.2%	0	0	--
Pennsylvania	W	W	W	1,232	1,371	-10.1%	0	W	W
East North Central	29,696	35,632	-16.7%	1,074	1,131	-5.1%	408	W	W
Illinois	6,735	6,762	-0.4%	72	84	-14.0%	0	0	--
Indiana	8,273	10,168	-18.6%	109	113	-3.6%	W	0	W
Michigan	5,420	6,006	-9.8%	310	338	-8.3%	W	W	W
Ohio	5,452	8,290	-34.2%	394	372	6.0%	W	W	W
Wisconsin	3,816	4,407	-13.4%	188	224	-16.2%	W	W	W
West North Central	27,353	31,151	-12.2%	853	1,068	-20.1%	0	0	--
Iowa	6,601	8,199	-19.5%	106	159	-33.3%	0	0	--
Kansas	4,093	4,675	-12.4%	113	136	-16.5%	0	0	--
Minnesota	3,473	4,098	-15.3%	112	149	-24.8%	0	0	--
Missouri	8,095	9,243	-12.4%	343	403	-14.8%	0	0	--
Nebraska	3,186	3,215	-0.9%	105	123	-15.0%	0	0	--
North Dakota	W	W	W	29	42	-29.8%	0	0	--
South Dakota	W	W	W	45	57	-21.1%	0	0	--
South Atlantic	24,438	25,966	-5.9%	12,048	11,979	0.6%	W	W	W
Delaware	W	W	W	385	575	-33.1%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,146	4,830	-14.2%	5,458	4,917	11.0%	W	W	W
Georgia	5,101	4,372	16.7%	811	816	-0.7%	0	0	--
Maryland	1,551	927	67.3%	755	925	-18.4%	0	0	--
North Carolina	4,225	4,775	-11.5%	1,210	1,246	-2.9%	0	0	--
South Carolina	4,138	5,136	-19.4%	701	718	-2.4%	0	0	--
Virginia	1,051	1,066	-1.4%	2,578	2,644	-2.5%	0	0	--
West Virginia	W	W	W	151	138	8.8%	W	W	W
East South Central	13,593	15,339	-11.4%	1,866	1,871	-0.3%	W	W	W
Alabama	3,083	3,706	-16.8%	327	339	-3.6%	0	0	--
Kentucky	7,021	7,479	-6.1%	241	238	1.4%	W	W	W
Mississippi	950	1,066	-10.9%	566	571	-0.8%	0	0	--
Tennessee	2,538	3,087	-17.8%	731	723	1.1%	0	0	--
West South Central	19,427	23,550	-17.5%	1,713	1,852	-7.5%	W	W	W
Arkansas	2,720	3,950	-31.1%	183	191	-4.1%	0	0	--
Louisiana	2,310	2,382	-3.0%	383	426	-10.1%	W	W	W
Oklahoma	3,782	4,966	-23.8%	96	112	-14.0%	0	0	--
Texas	10,615	12,252	-13.4%	1,051	1,124	-6.5%	0	0	--
Mountain	19,676	21,290	-7.6%	390	412	-5.2%	W	W	W
Arizona	3,235	3,854	-16.1%	133	140	-4.9%	0	0	--
Colorado	4,378	5,191	-15.7%	141	132	7.1%	0	0	--
Idaho	0	0	--	0	0	-17.6%	0	0	--
Montana	W	W	W	20	18	7.3%	W	W	W
Nevada	W	W	W	5	15	-64.6%	0	0	--
New Mexico	W	W	W	NM	41	NM	0	0	--
Utah	5,042	5,239	-3.8%	29	37	-20.0%	0	0	--
Wyoming	4,568	4,121	10.9%	35	28	23.8%	0	0	--
Pacific Contiguous	W	W	W	333	500	-33.3%	0	0	--
California	0	0	--	166	162	2.8%	0	0	--
Oregon	W	W	W	69	78	-11.3%	0	0	--
Washington	W	W	W	98	260	-62.4%	0	0	--
Pacific Noncontiguous	W	W	W	2,074	2,780	-25.4%	0	0	--
Alaska	0	W	W	101	407	-75.2%	0	0	--
Hawaii	W	W	W	1,973	2,373	-16.9%	0	0	--
U.S. Total	141,169	160,932	-12.3%	29,642	35,754	-17.1%	1,056	813	29.9%

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. 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, October 2017 and 2016

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**October 2017**	**October 2016**	**Percentage Change**	**October 2017**	**October 2016**	**October 2017**	**October 2016**
Coal (Thousand Tons)							
New England	W	1,839	W	W	W	W	W
Middle Atlantic	4,656	4,751	-2.0%	W	0	W	4,751
East North Central	29,696	35,632	-16.7%	19,419	22,909	10,277	12,723
West North Central	27,353	31,151	-12.2%	27,353	W	0	W
South Atlantic	24,438	25,966	-5.9%	21,801	24,234	2,636	1,732
East South Central	13,593	15,339	-11.4%	13,593	15,339	0	0
West South Central	19,427	23,550	-17.5%	13,050	16,102	6,377	7,448
Mountain	19,676	21,290	-7.6%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**141,169**	**160,932**	**-12.3%**	**114,806**	**131,510**	**26,363**	**29,422**
Petroleum Liquids (Thousand Barrels)							
New England	3,891	4,539	-14.3%	619	699	3,273	3,840
Middle Atlantic	5,399	9,622	-43.9%	2,223	2,228	3,177	7,393
East North Central	1,074	1,131	-5.1%	741	822	333	309
West North Central	853	1,068	-20.1%	831	1,042	23	26
South Atlantic	12,048	11,979	0.6%	9,909	9,504	2,139	2,475
East South Central	1,866	1,871	-0.3%	1,793	1,798	73	73
West South Central	1,713	1,852	-7.5%	1,320	1,397	393	455
Mountain	390	412	-5.2%	355	379	35	32
Pacific Contiguous	333	500	-33.3%	228	404	NM	97
Pacific Noncontiguous	2,074	2,780	-25.4%	1,984	2,749	90	32
U.S. Total	**29,642**	**35,754**	**-17.1%**	**20,002**	**21,022**	**9,641**	**14,732**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	W	W	0	0	0	W
East North Central	408	W	W	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	W	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	**1,056**	**813**	**29.9%**	**W**	**W**	**W**	**W**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2007 - October 2017

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	67,241	90,376	4,393	162,009
Year 2015, End of Month Stocks				
January	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
Year 2016, End of Month Stocks				
January	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	88,269	4,424	160,447
March	67,740	89,299	4,651	161,691
April	68,132	90,589	5,005	163,726
May	68,338	88,854	5,204	162,396
June	66,473	86,543	4,701	157,717
July	60,367	80,871	4,281	145,518
August	59,133	77,489	5,050	141,672
Sept	58,387	77,199	3,945	139,531
October	59,035	78,615	3,519	141,169

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:
Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report;
and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,516,272	650,770	2.11	40.64	1.34	93.8	101,810	16,807	9.40	56.95	0.49	68.1
Year 2015												
January	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
Year 2016												
January	1,035,315	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	10.19	61.94	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	1,099,136	57,463	2.09	40.05	1.26	88.6	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	62.3
May	939,123	48,842	2.13	40.90	1.32	94.1	6,485	1,082	W	W	0.48	56.6
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	1,080,359	56,632	2.09	39.84	1.22	79.7	6,488	1,086	W	W	0.48	54.9
August	1,172,537	61,134	2.08	39.85	1.30	91.1	6,866	1,136	W	W	0.47	61.0
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	100.8	7,328	1,212	11.87	71.73	0.52	64.6
Year to Date												
2015	12,791,362	663,103	2.24	43.14	1.30	101.3	123,462	20,358	12.00	72.83	0.48	71.8
2016	10,324,062	536,031	2.12	40.84	1.35	92.7	84,155	13,885	9.17	55.63	0.49	67.2
2017	10,177,346	530,701	2.08	39.92	1.29	93.6	74,410	12,385	11.47	68.91	0.49	66.2
Rolling 12 Months Ending in October												
2016	12,618,908	655,857	2.13	40.92	1.34	96.4	108,341	17,848	9.11	55.35	0.49	73.2
2017	12,369,556	645,441	2.08	39.89	1.29	94.5	92,064	15,306	W	W	0.49	67.3

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

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

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

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
Year 2015												
January	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
Year 2016												
January	9,640	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	605,952	585,551	4.13	4.28	76.5	2.82
February	7,593	271	2.00	56.03	5.85	83.0	532,101	514,990	3.58	3.70	77.7	2.60
March	8,628	309	2.06	57.51	5.29	86.8	616,880	597,210	3.36	3.47	71.3	2.62
April	5,835	208	2.00	55.96	5.34	93.1	576,203	557,620	3.38	3.49	76.1	2.62
May	6,776	242	2.05	57.46	5.57	61.1	646,016	625,858	3.49	3.60	76.6	W
June	8,657	308	W	W	5.55	71.1	762,488	737,995	3.30	3.41	76.4	W
July	8,498	302	W	W	5.50	73.2	928,732	897,833	3.22	3.33	74.7	W
August	7,972	284	W	W	5.47	77.2	900,125	870,465	3.16	3.27	73.8	W
Sept	7,915	284	W	W	5.43	84.5	759,247	733,551	3.20	3.31	75.1	W
October	8,347	297	W	W	5.61	97.4	691,894	670,086	3.16	3.27	75.0	W
Year to Date												
2015	115,513	4,075	1.89	53.63	5.17	91.4	8,571,566	8,292,381	3.34	3.46	90.0	2.70
2016	97,632	3,479	1.55	43.45	5.37	77.0	9,171,038	8,870,549	2.78	2.87	90.8	2.44
2017	77,280	2,756	W	W	5.53	76.9	7,019,637	6,791,159	3.37	3.48	75.2	W
Rolling 12 Months Ending in October												
2016	120,787	4,300	1.55	43.66	5.43	82.0	10,772,975	10,420,748	2.75	2.85	90.6	2.42
2017	96,589	3,443	W	W	5.53	77.9	8,467,704	8,191,790	3.39	3.51	77.4	W

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

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

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

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - October 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
Year 2015												
January	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
Year 2016												
January	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	791,083	41,154	2.14	41.21	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	688,996	35,438	2.16	42.03	1.20	94.5	4,612	764	11.38	68.72	0.45	58.4
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	811,773	42,046	2.12	40.90	1.12	80.4	4,654	774	10.91	65.61	0.45	59.6
August	882,432	45,611	2.11	40.88	1.19	92.4	5,107	838	11.08	67.53	0.46	65.5
Sept	736,582	38,557	2.08	39.78	1.10	97.3	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
Year to Date												
2015	9,400,306	484,096	2.26	43.93	1.17	103.7	74,080	12,151	11.89	72.50	0.46	75.5
2016	7,669,928	394,169	2.17	42.18	1.22	94.6	60,948	9,954	8.95	54.79	0.45	73.6
2017	7,502,204	388,284	2.12	41.01	1.17	94.8	55,752	9,221	11.36	68.69	0.48	71.2
Rolling 12 Months Ending in October												
2016	9,358,253	481,780	2.17	42.25	1.20	98.3	76,909	12,550	8.89	54.49	0.46	78.1
2017	9,089,153	470,322	2.12	41.04	1.18	95.5	68,098	11,252	11.15	67.50	0.47	72.0

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

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

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

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,925	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	278,520	4.35	4.50	83.4	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	85.1	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,757	288,239	3.56	3.67	78.0	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,424	272,351	3.52	3.63	82.4	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,910	314,005	3.71	3.82	82.9	2.69
June	8,386	298	2.14	60.07	5.55	105.5	368,351	356,696	3.57	3.69	80.6	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,470	431,599	3.48	3.60	76.9	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,280	418,121	3.46	3.57	76.7	2.58
Sept	7,658	274	2.12	59.07	5.42	130.2	362,510	350,495	3.58	3.70	78.4	2.61
October	7,454	265	2.37	66.84	5.58	154.2	329,450	319,249	3.59	3.70	79.2	2.60
Year to Date												
2015	97,356	3,418	1.84	52.37	5.14	125.8	3,966,269	3,837,110	3.63	3.75	96.1	2.71
2016	83,818	2,976	1.41	39.71	5.35	101.5	4,387,305	4,243,119	3.06	3.16	97.0	2.51
2017	75,309	2,684	2.11	59.24	5.52	118.1	3,381,051	3,271,909	3.64	3.76	79.8	2.63
Rolling 12 Months Ending in October												
2016	102,391	3,628	1.41	39.81	5.41	108.4	5,138,784	4,971,049	3.04	3.14	96.8	2.51
2017	91,197	3,247	2.11	59.29	5.53	117.0	4,069,083	3,936,328	3.66	3.78	82.3	2.64

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

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

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

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.97	58.79	0.48	75.1
Year 2015												
January	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
Year 2016												
January	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	11.16	66.40	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	92.7
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	71.8
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	96.2	2,321	393	11.66	68.89	0.50	107.9
Year to Date												
2015	3,167,367	168,714	2.12	39.88	1.67	97.9	47,438	7,889	12.10	72.86	0.47	80.7
2016	2,473,551	133,426	1.93	35.83	1.77	89.6	21,121	3,594	9.73	57.27	0.47	73.0
2017	2,521,769	135,134	1.93	36.03	1.64	92.8	17,270	2,941	11.84	69.55	0.46	73.6
Rolling 12 Months Ending in October												
2016	3,037,692	163,694	1.94	35.98	1.74	93.8	28,931	4,893	W	W	0.47	84.8
2017	3,095,576	166,356	1.93	35.86	1.62	94.5	22,124	3,757	W	W	0.46	76.0

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	W
Year 2015												
January	1,427	52	W	W	5.10	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
Year 2016												
January	1,305	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	81.1	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	72.0	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.19	3.30	79.1	W
May	0	0	--	--	--	0.0	269,235	260,637	3.19	3.29	79.0	W
June	0	0	--	--	--	0.0	339,166	328,064	2.92	3.02	79.2	W
July	0	0	--	--	--	0.0	423,924	409,779	2.86	2.96	78.4	W
August	0	0	--	--	--	0.0	412,138	398,444	2.76	2.85	76.4	W
Sept	0	0	--	--	--	0.0	342,641	330,729	2.68	2.78	78.5	W
October	0	0	--	--	--	0.0	310,113	300,091	2.60	2.69	78.8	2.26
Year to Date												
2015	11,166	399	2.44	68.35	5.17	59.5	3,969,069	3,839,983	3.06	3.16	93.2	W
2016	10,778	391	2.50	68.92	5.43	67.0	4,164,340	4,027,058	2.44	2.52	94.1	W
2017	0	0	--	--	--	0.0	3,089,468	2,987,549	3.03	3.13	78.1	2.50
Rolling 12 Months Ending in October												
2016	14,162	516	W	W	5.46	74.5	4,878,562	4,717,270	2.41	2.50	94.0	W
2017	2,795	102	W	W	5.47	17.3	3,716,857	3,595,009	3.05	3.15	80.3	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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Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.3	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.2	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
Year to Date												
2015	2,070	92	2.88	64.62	2.48	13.8	0	0	--	--	--	0.0
2016	837	37	W	W	3.02	6.7	0	0	--	--	--	0.0
2017	446	20	W	W	2.99	3.9	0	0	--	--	--	0.0
Rolling 12 Months Ending in October												
2016	1,207	53	W	W	3.00	7.8	0	0	--	--	--	0.0
2017	896	39	W	W	3.02	6.2	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, 2007 - October 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.1	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.3	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
Year to Date												
2015	0	0	--	--	--	0.0	5,200	5,114	W	W	5.3	W
2016	0	0	--	--	--	0.0	6,825	6,628	W	W	6.1	W
2017	0	0	--	--	--	0.0	6,358	6,156	W	W	6.1	W
Rolling 12 Months Ending in October												
2016	0	0	--	--	--	0.0	8,124	7,884	W	W	6.2	W
2017	0	0	--	--	--	0.0	7,538	7,294	W	W	6.1	W

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

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

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - October 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	W	W	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
Year 2015												
January	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
Year 2016												
January	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	54.3	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	15.7
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
Year to Date												
2015	221,619	10,201	2.73	59.31	1.33	71.3	1,944	318	13.84	84.66	1.41	16.1
2016	179,745	8,399	W	W	1.30	68.0	2,086	338	10.26	63.38	1.28	17.3
2017	152,927	7,264	W	W	1.22	65.5	1,388	223	11.11	69.29	1.31	15.9
Rolling 12 Months Ending in October												
2016	221,756	10,330	W	W	1.32	68.8	2,500	405	W	W	1.31	17.9
2017	183,931	8,723	W	W	1.24	64.8	1,842	297	W	W	1.29	17.4

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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, 2007 - October 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.2	744,034	721,358	W	W	59.6	W
Year 2015												
January	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	W
Year 2016												
January	400	15	W	W	5.94	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	51.4	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	57,702	55,842	W	W	52.3	W
August	296	11	W	W	5.85	11.9	54,898	53,122	W	W	51.7	W
Sept	257	9	W	W	5.85	12.0	53,389	51,642	W	W	52.6	W
October	893	32	W	W	5.85	37.4	51,726	50,157	W	W	50.4	W
Year to Date												
2015	6,992	259	W	W	5.52	24.4	631,028	610,174	W	W	60.5	W
2016	3,037	112	W	W	5.84	11.3	612,568	593,745	W	W	59.0	W
2017	1,971	71	W	W	5.84	8.5	542,760	525,545	W	W	52.0	W
Rolling 12 Months Ending in October												
2016	4,234	157	W	W	5.71	13.1	747,504	724,546	W	W	59.4	W
2017	2,597	95	W	W	5.83	9.1	674,226	653,159	W	W	53.9	W

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	7	91	-92.0%	0	37	7	53	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	7	9	-19.0%	0	0	7	8	0	0	0	1
Massachusetts	0	45	-100.0%	0	0	0	45	0	0	0	0
New Hampshire	0	37	-100.0%	0	37	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	1,335	1,955	-32.0%	26	0	1,291	1,907	0	0	19	48
New Jersey	57	57	-0.6%	0	0	57	57	0	0	0	0
New York	8	72	-89.0%	0	0	0	48	0	0	8	25
Pennsylvania	1,271	1,826	-30.0%	26	0	1,234	1,802	0	0	11	24
East North Central	11,032	11,731	-6.0%	6,774	7,060	4,084	4,434	0	0	174	237
Illinois	3,134	3,446	-9.0%	615	493	2,359	2,754	0	0	161	199
Indiana	2,408	2,388	0.9%	2,273	2,261	135	126	0	0	0	0
Michigan	1,998	1,990	0.4%	1,980	1,955	18	35	0	0	0	0
Ohio	2,090	2,172	-3.8%	518	654	1,572	1,518	0	0	0	0
Wisconsin	1,402	1,736	-19.0%	1,388	1,698	0	0	0	0	13	39
West North Central	9,765	10,591	-7.8%	9,511	10,312	0	0	2	7	253	271
Iowa	1,468	1,934	-24.0%	1,278	1,734	0	0	0	0	190	201
Kansas	1,152	1,491	-23.0%	1,152	1,491	0	0	0	0	0	0
Minnesota	1,037	1,422	-27.0%	1,037	1,414	0	0	0	0	0	8
Missouri	3,113	2,817	10.0%	3,111	2,810	0	0	2	7	0	0
Nebraska	995	1,137	-12.0%	932	1,074	0	0	0	0	63	63
North Dakota	1,944	1,718	13.0%	1,944	1,718	0	0	0	0	0	0
South Dakota	57	71	-20.0%	57	71	0	0	0	0	0	0
South Atlantic	7,045	8,178	-14.0%	6,110	6,871	841	1,192	0	0	94	115
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	1,295	1,548	-16.0%	1,285	1,535	0	13	0	0	10	0
Georgia	1,532	1,676	-8.6%	1,516	1,651	0	0	0	0	16	25
Maryland	350	659	-47.0%	0	0	334	641	0	0	16	19
North Carolina	937	1,206	-22.0%	915	1,163	1	7	0	0	21	35
South Carolina	501	266	88.0%	494	259	0	0	0	0	7	8
Virginia	165	621	-73.0%	109	534	33	59	0	0	24	29
West Virginia	2,265	2,201	2.9%	1,793	1,729	472	472	0	0	0	0
East South Central	4,211	6,347	-34.0%	3,984	6,095	155	183	0	0	71	69
Alabama	1,249	1,443	-13.0%	1,249	1,443	0	0	0	0	0	0
Kentucky	2,267	3,584	-37.0%	2,267	3,584	0	0	0	0	0	0
Mississippi	262	440	-40.0%	107	256	155	183	0	0	0	0
Tennessee	433	880	-51.0%	361	812	0	0	0	0	71	69
West South Central	10,513	11,888	-12.0%	4,981	5,804	5,515	6,029	0	0	18	54
Arkansas	1,499	1,330	13.0%	1,249	1,108	247	215	0	0	3	7
Louisiana	671	656	2.2%	489	442	182	214	0	0	0	0
Oklahoma	1,152	1,334	-14.0%	1,051	1,179	86	108	0	0	15	48
Texas	7,192	8,568	-16.0%	2,191	3,075	5,001	5,493	0	0	0	0
Mountain	7,236	8,432	-14.0%	6,361	7,401	856	1,013	0	0	20	17
Arizona	1,526	1,529	-0.2%	1,526	1,529	0	0	0	0	0	0
Colorado	1,586	1,441	10.0%	1,586	1,441	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	749	916	-18.0%	14	26	735	890	0	0	0	0
Nevada	46	131	-65.0%	0	87	46	44	0	0	0	0
New Mexico	757	1,100	-31.0%	757	1,100	0	0	0	0	0	0
Utah	962	1,228	-22.0%	915	1,175	28	36	0	0	20	17
Wyoming	1,610	2,087	-23.0%	1,562	2,044	47	43	0	0	0	0
Pacific Contiguous	623	526	18.0%	152	97	416	363	0	0	55	65
California	55	65	-17.0%	0	0	0	0	0	0	55	65
Oregon	152	97	56.0%	152	97	0	0	0	0	0	0
Washington	416	363	15.0%	0	0	416	363	0	0	0	0
Pacific Noncontiguous	80	77	3.5%	17	15	63	62	0	0	0	0
Alaska	17	15	12.0%	17	15	0	0	0	0	0	0
Hawaii	63	62	1.3%	0	0	63	62	0	0	0	0
U.S. Total	51,848	59,814	-13.0%	37,915	43,693	13,227	15,236	2	7	704	879

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	184	1,070	-83.0%	45	177	140	881	0	0	0	13
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	53	70	-24.0%	0	0	53	57	0	0	0	13
Massachusetts	87	739	-88.0%	0	0	87	739	0	0	0	0
New Hampshire	45	177	-75.0%	45	177	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	16,731	20,198	-17.0%	119	0	16,357	19,685	0	0	254	513
New Jersey	537	529	1.6%	0	0	537	529	0	0	0	0
New York	252	465	-46.0%	0	0	97	229	0	0	155	236
Pennsylvania	15,942	19,204	-17.0%	119	0	15,723	18,928	0	0	99	277
East North Central	114,182	114,025	0.1%	69,602	67,988	42,942	43,844	0	0	1,638	2,193
Illinois	33,390	32,113	4.0%	6,537	5,820	25,303	24,611	0	0	1,550	1,683
Indiana	23,782	24,055	-1.1%	22,548	22,532	1,234	1,523	0	0	0	0
Michigan	19,338	18,191	6.3%	19,122	17,969	209	212	0	0	8	10
Ohio	21,698	24,351	-11.0%	5,502	6,701	16,197	17,498	0	0	0	152
Wisconsin	15,974	15,316	4.3%	15,894	14,967	0	0	0	0	80	349
West North Central	95,124	97,955	-2.9%	92,370	95,416	0	0	20	37	2,734	2,503
Iowa	12,528	15,401	-19.0%	10,736	13,591	0	0	0	0	1,793	1,810
Kansas	9,855	11,883	-17.0%	9,855	11,883	0	0	0	0	0	0
Minnesota	10,341	10,099	2.4%	10,032	10,045	0	0	0	0	310	54
Missouri	30,961	29,368	5.4%	30,941	29,331	0	0	20	37	0	0
Nebraska	10,977	11,494	-4.5%	10,345	10,856	0	0	0	0	632	638
North Dakota	19,389	18,628	4.1%	19,389	18,628	0	0	0	0	0	0
South Dakota	1,071	1,082	-1.0%	1,071	1,082	0	0	0	0	0	0
South Atlantic	74,383	79,381	-6.3%	65,378	68,484	8,150	9,886	0	0	855	1,011
Delaware	200	199	0.3%	0	0	200	199	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,995	12,806	1.5%	12,834	12,516	26	290	0	0	136	0
Georgia	14,604	14,346	1.8%	14,510	14,219	0	0	0	0	94	127
Maryland	3,176	4,266	-26.0%	0	0	3,015	4,077	0	0	161	189
North Carolina	11,459	9,911	16.0%	11,163	9,559	47	60	0	0	249	291
South Carolina	5,545	6,723	-18.0%	5,519	6,641	0	0	0	0	26	82
Virginia	4,581	6,711	-32.0%	4,056	5,943	337	515	0	0	188	253
West Virginia	21,822	24,419	-11.0%	17,297	19,605	4,525	4,745	0	0	0	69
East South Central	50,892	55,809	-8.8%	48,071	52,241	2,023	2,546	0	0	798	1,022
Alabama	13,305	13,617	-2.3%	13,305	13,617	0	0	0	0	0	0
Kentucky	27,216	30,781	-12.0%	27,216	30,781	0	0	0	0	0	0
Mississippi	3,263	3,576	-8.7%	1,240	1,030	2,023	2,546	0	0	0	0
Tennessee	7,108	7,836	-9.3%	6,310	6,814	0	0	0	0	798	1,022
West South Central	101,043	88,303	14.0%	46,467	42,677	54,217	45,248	0	0	358	377
Arkansas	11,430	10,327	11.0%	10,175	8,547	1,200	1,729	0	0	55	52
Louisiana	6,863	5,480	25.0%	4,223	4,157	2,640	1,323	0	0	0	0
Oklahoma	9,068	9,122	-0.6%	7,899	7,897	866	900	0	0	303	326
Texas	73,682	63,373	16.0%	24,171	22,077	49,511	41,296	0	0	0	0
Mountain	73,629	74,720	-1.5%	65,501	66,136	8,017	8,353	0	0	111	231
Arizona	13,781	12,694	8.6%	13,781	12,694	0	0	0	0	0	0
Colorado	13,629	13,075	4.2%	13,629	13,075	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	6,967	7,390	-5.7%	215	209	6,752	7,181	0	0	0	0
Nevada	668	835	-20.0%	182	423	486	413	0	0	0	0
New Mexico	9,061	8,730	3.8%	9,061	8,730	0	0	0	0	0	0
Utah	10,042	11,271	-11.0%	9,594	10,712	337	328	0	0	111	231
Wyoming	19,481	20,725	-6.0%	19,038	20,294	443	431	0	0	0	0
Pacific Contiguous	3,848	3,738	2.9%	591	881	2,741	2,320	0	0	516	536
California	516	536	-3.8%	0	0	0	0	0	0	516	536
Oregon	591	881	-33.0%	591	881	0	0	0	0	0	0
Washington	2,741	2,320	18.0%	0	0	2,741	2,320	0	0	0	0
Pacific Noncontiguous	686	832	-18.0%	139	168	547	663	0	0	0	0
Alaska	139	168	-17.0%	139	168	0	0	0	0	0	0
Hawaii	547	663	-18.0%	0	0	547	663	0	0	0	0
U.S. Total	530,701	536,031	-1.0%	388,284	394,169	135,134	133,426	20	37	7,264	8,399

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	54	86	-37.0%	1	0	53	86	0	0	0	0
Connecticut	0	1	-87.0%	0	0	0	1	0	0	0	0
Maine	3	2	39.0%	0	0	3	2	0	0	0	0
Massachusetts	50	83	-39.0%	0	0	50	83	0	0	0	0
New Hampshire	1	0	438.0%	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	41	204	-80.0%	0	104	33	80	0	0	9	20
New Jersey	1	0	291.0%	0	0	1	0	0	0	0	0
New York	10	139	-93.0%	0	104	8	27	0	0	2	7
Pennsylvania	31	64	-52.0%	0	0	24	52	0	0	7	12
East North Central	74	95	-22.0%	39	35	33	59	0	0	2	1
Illinois	6	6	-3.4%	1	1	5	5	0	0	0	0
Indiana	20	14	39.0%	20	14	0	0	0	0	0	0
Michigan	10	10	3.7%	10	10	0	0	0	0	0	0
Ohio	36	66	-45.0%	6	11	28	54	0	0	2	1
Wisconsin	3	0	--	3	0	0	0	0	0	0	0
West North Central	37	33	12.0%	37	29	0	4	0	0	0	0
Iowa	9	10	-10.0%	9	10	0	0	0	0	0	0
Kansas	9	0	--	9	0	0	0	0	0	0	0
Minnesota	4	8	-44.0%	4	4	0	4	0	0	0	0
Missouri	14	12	17.0%	14	12	0	0	0	0	0	0
Nebraska	0	0	22.0%	0	0	0	0	0	0	0	0
North Dakota	0	3	-100.0%	0	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	197	191	2.7%	95	76	90	89	0	0	12	27
Delaware	2	27	-93.0%	0	0	2	27	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23	12	87.0%	20	10	0	2	0	0	3	0
Georgia	16	16	1.6%	10	4	0	0	0	0	6	11
Maryland	47	42	13.0%	0	0	47	42	0	0	0	0
North Carolina	29	11	164.0%	26	10	0	0	0	0	3	1
South Carolina	5	10	-50.0%	5	4	0	0	0	0	0	6
Virginia	55	57	-3.7%	14	30	40	19	0	0	0	8
West Virginia	20	17	17.0%	20	17	0	0	0	0	0	0
East South Central	31	30	1.9%	28	30	2	0	0	0	1	1
Alabama	5	3	61.0%	3	3	2	0	0	0	0	0
Kentucky	18	14	33.0%	18	14	0	0	0	0	0	0
Mississippi	0	2	-89.0%	0	2	0	0	0	0	0	0
Tennessee	8	12	-36.0%	7	11	0	0	0	0	1	1
West South Central	10	37	-73.0%	5	32	4	5	0	0	0	0
Arkansas	7	5	36.0%	3	5	3	0	0	0	0	0
Louisiana	0	3	-100.0%	0	3	0	0	0	0	0	0
Oklahoma	1	23	-96.0%	1	23	0	0	0	0	0	0
Texas	2	7	-65.0%	1	2	1	5	0	0	0	0
Mountain	18	30	-38.0%	17	28	1	2	0	0	0	0
Arizona	8	16	-51.0%	8	16	0	0	0	0	0	0
Colorado	0	2	-100.0%	0	2	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	1	1	-29.0%	0	0	1	1	0	0	0	0
New Mexico	6	4	46.0%	6	4	0	0	0	0	0	0
Utah	3	6	-45.0%	3	5	0	0	0	0	0	0
Wyoming	1	1	-4.0%	1	1	0	0	0	0	0	0
Pacific Contiguous	1	1	25.0%	0	0	1	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	1	25.0%	0	0	1	1	0	0	0	0
Pacific Noncontiguous	749	683	9.8%	573	516	176	167	0	0	0	0
Alaska	0	3	-100.0%	0	3	0	0	0	0	0	0
Hawaii	749	680	10.0%	573	513	176	167	0	0	0	0
U.S. Total	1,212	1,390	-13.0%	796	851	393	492	0	0	24	48

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	253	360	-30.0%	10	73	244	283	0	0	0	4
Connecticut	22	30	-25.0%	0	0	22	30	0	0	0	0
Maine	92	21	334.0%	0	0	92	18	0	0	0	4
Massachusetts	129	293	-56.0%	0	65	129	227	0	0	0	0
New Hampshire	10	8	25.0%	10	8	0	0	0	0	0	0
Rhode Island	0	8	-100.0%	0	0	0	8	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	611	856	-29.0%	172	158	363	612	0	0	75	86
New Jersey	4	13	-65.0%	0	0	4	13	0	0	0	0
New York	288	441	-35.0%	172	158	96	264	0	0	20	19
Pennsylvania	318	402	-21.0%	0	0	263	336	0	0	55	66
East North Central	642	830	-23.0%	386	430	235	375	0	0	22	25
Illinois	69	99	-30.0%	4	4	66	95	0	0	0	0
Indiana	167	157	6.5%	167	157	0	0	0	0	0	0
Michigan	115	150	-24.0%	106	144	0	0	0	0	9	7
Ohio	260	382	-32.0%	78	87	170	276	0	0	12	18
Wisconsin	32	43	-26.0%	32	39	0	4	0	0	0	0
West North Central	319	292	9.2%	319	288	0	4	0	0	0	0
Iowa	80	77	3.9%	80	77	0	0	0	0	0	0
Kansas	76	29	162.0%	76	29	0	0	0	0	0	0
Minnesota	29	37	-21.0%	29	33	0	4	0	0	0	0
Missouri	70	95	-27.0%	70	95	0	0	0	0	0	0
Nebraska	1	3	-59.0%	1	3	0	0	0	0	0	0
North Dakota	58	48	21.0%	58	48	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	2,514	3,205	-22.0%	2,081	2,383	312	605	0	0	120	216
Delaware	15	78	-81.0%	0	0	15	78	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,367	829	65.0%	1,337	822	0	7	0	0	30	0
Georgia	155	226	-31.0%	118	142	3	31	0	0	34	53
Maryland	190	242	-21.0%	0	0	190	242	0	0	0	0
North Carolina	229	285	-20.0%	200	189	1	66	0	0	28	31
South Carolina	98	232	-58.0%	82	125	0	0	0	0	16	107
Virginia	295	1,135	-74.0%	179	927	103	182	0	0	13	26
West Virginia	164	178	-7.8%	164	178	0	0	0	0	0	0
East South Central	302	381	-21.0%	290	363	6	10	0	0	6	7
Alabama	40	58	-31.0%	34	48	6	10	0	0	0	0
Kentucky	138	156	-12.0%	138	156	0	0	0	0	0	0
Mississippi	12	23	-45.0%	12	23	0	0	0	0	0	0
Tennessee	112	143	-22.0%	106	136	0	0	0	0	6	7
West South Central	178	245	-27.0%	83	180	95	65	0	0	0	0
Arkansas	71	55	29.0%	26	40	45	15	0	0	0	0
Louisiana	0	53	-100.0%	0	51	0	2	0	0	0	0
Oklahoma	5	28	-81.0%	5	28	0	0	0	0	0	0
Texas	102	109	-6.5%	52	61	49	48	0	0	0	0
Mountain	280	293	-4.7%	255	266	25	28	0	0	0	0
Arizona	64	85	-24.0%	64	85	0	0	0	0	0	0
Colorado	3	13	-75.0%	3	13	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	16	19	-17.0%	0	0	16	19	0	0	0	0
Nevada	17	21	-19.0%	11	16	6	5	0	0	0	0
New Mexico	58	69	-15.0%	58	69	0	0	0	0	0	0
Utah	53	27	98.0%	50	24	3	3	0	0	0	0
Wyoming	68	60	12.0%	68	60	0	0	0	0	0	0
Pacific Contiguous	29	16	80.0%	14	3	15	13	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	14	3	287.0%	14	3	0	0	0	0	0	0
Washington	15	13	23.0%	0	0	15	13	0	0	0	0
Pacific Noncontiguous	7,257	7,409	-2.0%	5,611	5,809	1,646	1,599	0	0	0	0
Alaska	1	7	-87.0%	1	7	0	0	0	0	0	0
Hawaii	7,256	7,402	-2.0%	5,610	5,802	1,646	1,599	0	0	0	0
U.S. Total	12,385	13,885	-11.0%	9,221	9,954	2,941	3,594	0	0	223	338

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
East North Central	48	78	-39.0%	48	22	0	56	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	39	17	133.0%	39	17	0	0	0	0	0	0
Ohio	0	56	-100.0%	0	0	0	56	0	0	0	0
Wisconsin	8	5	65.0%	8	5	0	0	0	0	0	0
West North Central	32	0	--	0	0	0	0	0	0	32	0
Iowa	32	0	--	0	0	0	0	0	0	32	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	71	50	42.0%	71	42	0	0	0	0	0	8
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	71	42	69.0%	71	42	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	17	-100.0%	0	17	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	17	-100.0%	0	17	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	146	171	-15.0%	146	171	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	146	171	-15.0%	146	171	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	297	317	-6.2%	265	253	0	56	0	0	32	8

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum 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) October 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
East North Central	455	867	-48.0%	455	458	0	391	0	0	0	18
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	162	-100.0%	0	162	0	0	0	0	0	0
Michigan	413	260	59.0%	413	260	0	0	0	0	0	0
Ohio	0	391	-100.0%	0	0	0	391	0	0	0	0
Wisconsin	42	55	-24.0%	42	37	0	0	0	0	0	18
West North Central	71	0	--	0	0	0	0	0	0	71	0
Iowa	71	0	--	0	0	0	0	0	0	71	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	555	1,258	-56.0%	555	1,165	0	0	0	0	0	94
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	555	1,165	-52.0%	555	1,165	0	0	0	0	0	0
Georgia	0	94	-100.0%	0	0	0	0	0	0	0	94
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	117	65	82.0%	117	65	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	117	65	82.0%	117	65	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	1,557	1,288	21.0%	1,557	1,288	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,557	1,288	21.0%	1,557	1,288	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	2,756	3,479	-21.0%	2,684	2,976	0	391	0	0	71	112

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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, October 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	20,498	25,160	-19.0%	205	45	20,293	25,115	0	0	0	0
Connecticut	8,532	9,252	-7.8%	0	0	8,532	9,252	0	0	0	0
Maine	11	1,792	-99.0%	0	0	11	1,792	0	0	0	0
Massachusetts	9,047	8,795	2.9%	151	44	8,896	8,751	0	0	0	0
New Hampshire	1,668	2,365	-29.0%	54	0	1,614	2,365	0	0	0	0
Rhode Island	1,239	2,955	-58.0%	0	0	1,239	2,955	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	75,868	93,046	-18.0%	4,265	5,993	71,365	86,823	0	0	238	230
New Jersey	10,707	26,222	-59.0%	0	0	10,707	26,222	0	0	0	0
New York	22,567	28,828	-22.0%	4,265	5,993	18,246	22,749	0	0	56	86
Pennsylvania	42,595	37,995	12.0%	0	0	42,412	37,851	0	0	183	144
East North Central	49,422	57,914	-15.0%	17,853	23,443	30,114	32,837	408	484	1,046	1,151
Illinois	4,243	10,778	-61.0%	6	806	4,232	9,973	0	0	5	0
Indiana	9,110	10,735	-15.0%	8,135	9,520	975	1,216	0	0	0	0
Michigan	15,485	16,866	-8.2%	2,428	5,591	12,149	10,342	408	484	500	448
Ohio	13,559	14,279	-5.0%	1,098	3,287	12,115	10,673	0	0	346	318
Wisconsin	7,025	5,256	34.0%	6,186	4,239	644	633	0	0	196	384
West North Central	4,808	12,540	-62.0%	4,127	11,283	18	883	179	91	484	284
Iowa	2,157	2,794	-23.0%	1,674	2,516	0	0	0	0	483	278
Kansas	1,718	1,058	62.0%	1,718	1,058	0	0	0	0	0	0
Minnesota	55	3,262	-98.0%	37	2,376	18	883	0	1	1	3
Missouri	688	2,827	-76.0%	509	2,737	0	0	179	90	0	0
Nebraska	149	392	-62.0%	149	389	0	0	0	0	0	3
North Dakota	40	1,809	-98.0%	40	1,809	0	0	0	0	0	0
South Dakota	0	397	-100.0%	0	397	0	0	0	0	0	0
South Atlantic	176,657	182,215	-3.0%	148,957	147,151	24,664	31,061	0	0	3,036	4,003
Delaware	2,087	6,366	-67.0%	0	0	2,087	5,038	0	0	0	1,328
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	96,043	94,781	1.3%	94,678	89,699	1,158	5,083	0	0	207	0
Georgia	23,460	27,025	-13.0%	17,341	21,516	5,457	4,562	0	0	662	946
Maryland	2,629	3,230	-19.0%	0	0	2,389	3,077	0	0	239	153
North Carolina	20,144	18,556	8.6%	17,464	14,660	2,411	3,873	0	0	269	22
South Carolina	10,298	10,768	-4.4%	7,484	9,610	2,640	1,011	0	0	174	147
Virginia	19,458	19,140	1.7%	11,790	11,570	6,906	6,823	0	0	763	747
West Virginia	2,539	2,349	8.1%	200	96	1,617	1,593	0	0	722	660
East South Central	58,778	71,714	-18.0%	40,344	48,025	17,308	22,324	0	0	1,125	1,366
Alabama	26,808	30,798	-13.0%	11,110	8,548	15,698	22,250	0	0	0	0
Kentucky	2,732	4,966	-45.0%	2,212	4,907	520	59	0	0	0	0
Mississippi	22,589	28,164	-20.0%	21,499	28,150	1,090	15	0	0	0	0
Tennessee	6,649	7,786	-15.0%	5,524	6,420	0	0	0	0	1,125	1,366
West South Central	169,549	207,313	-18.0%	41,564	58,132	85,842	98,180	0	0	42,143	51,001
Arkansas	5,446	8,670	-37.0%	8	3,484	5,242	5,073	0	0	196	114
Louisiana	37,083	39,776	-6.8%	19,693	19,479	2,920	3,072	0	0	14,469	17,224
Oklahoma	15,701	19,260	-18.0%	9,162	13,313	6,232	5,876	0	0	307	71
Texas	111,319	139,607	-20.0%	12,701	21,856	71,447	84,159	0	0	27,170	33,592
Mountain	49,815	51,526	-3.3%	39,273	36,678	10,473	14,785	0	0	68	63
Arizona	21,204	20,814	1.9%	13,059	10,049	8,145	10,765	0	0	0	0
Colorado	5,856	5,473	7.0%	4,997	4,750	859	723	0	0	0	0
Idaho	0	1,201	-100.0%	0	355	0	846	0	0	0	0
Montana	240	257	-6.8%	240	252	0	6	0	0	0	0
Nevada	15,098	13,637	11.0%	15,098	13,637	0	0	0	0	0	0
New Mexico	5,648	6,492	-13.0%	4,326	4,183	1,322	2,310	0	0	0	0
Utah	1,715	3,640	-53.0%	1,499	3,442	147	135	0	0	68	63
Wyoming	54	12	361.0%	54	12	0	0	0	0	0	0
Pacific Contiguous	64,426	67,641	-4.8%	22,394	26,749	40,014	38,668	0	0	2,017	2,224
California	52,826	56,007	-5.7%	16,933	19,615	33,876	34,169	0	0	2,017	2,224
Oregon	7,929	7,841	1.1%	1,791	4,492	6,138	3,349	0	0	0	0
Washington	3,671	3,793	-3.2%	3,671	2,643	0	1,150	0	0	0	0
Pacific Noncontiguous	266	1,042	-74.0%	266	1,042	0	0	0	0	0	0
Alaska	266	1,042	-74.0%	266	1,042	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	670,086	770,111	-13.0%	319,249	358,541	300,091	350,675	588	575	50,157	60,320

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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) October 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	225,632	323,209	-30.0%	1,081	1,882	224,551	321,327	0	0	0	0
Connecticut	80,745	99,746	-19.0%	0	0	80,745	99,746	0	0	0	0
Maine	70	20,641	-100.0%	0	0	70	20,641	0	0	0	0
Massachusetts	110,033	133,155	-17.0%	698	1,431	109,335	131,724	0	0	0	0
New Hampshire	22,727	28,597	-21.0%	383	451	22,344	28,146	0	0	0	0
Rhode Island	12,058	41,070	-71.0%	0	0	12,058	41,070	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	734,162	1,043,351	-30.0%	67,834	89,561	663,641	951,796	0	0	2,687	1,995
New Jersey	121,657	270,533	-55.0%	0	0	121,657	270,533	0	0	0	0
New York	270,177	367,929	-27.0%	67,834	89,561	201,431	277,646	0	0	912	723
Pennsylvania	342,328	404,890	-15.0%	0	0	340,553	403,617	0	0	1,775	1,272
East North Central	496,152	727,793	-32.0%	188,279	324,150	291,897	389,792	4,810	5,369	11,166	8,483
Illinois	53,692	120,284	-55.0%	198	11,739	53,450	108,518	0	0	43	28
Indiana	91,313	122,683	-26.0%	75,591	100,425	15,722	22,258	0	0	0	0
Michigan	148,497	205,512	-28.0%	31,278	74,935	107,556	120,582	4,810	5,369	4,853	4,627
Ohio	146,763	178,011	-18.0%	36,019	48,391	106,772	128,710	0	0	3,972	910
Wisconsin	55,887	101,302	-45.0%	45,192	88,660	8,397	9,723	0	0	2,297	2,919
West North Central	39,493	158,491	-75.0%	34,350	133,180	377	22,655	1,346	1,259	3,421	1,397
Iowa	16,663	26,748	-38.0%	13,354	26,453	0	0	0	0	3,309	295
Kansas	13,229	14,891	-11.0%	13,229	14,891	0	0	0	0	0	0
Minnesota	920	57,876	-98.0%	427	44,860	377	11,926	5	9	112	1,081
Missouri	5,624	40,482	-86.0%	4,283	28,502	0	10,729	1,341	1,250	0	0
Nebraska	1,944	3,609	-46.0%	1,944	3,588	0	0	0	0	0	21
North Dakota	1,113	9,747	-89.0%	1,113	9,747	0	0	0	0	0	0
South Dakota	0	5,137	-100.0%	0	5,137	0	0	0	0	0	0
South Atlantic	1,803,087	2,075,704	-13.0%	1,520,239	1,667,534	254,307	375,389	0	0	28,542	32,781
Delaware	25,486	56,008	-54.0%	0	0	25,486	44,254	0	0	0	11,754
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	914,936	1,004,218	-8.9%	899,724	928,559	13,392	75,659	0	0	1,820	0
Georgia	258,136	338,701	-24.0%	200,174	254,848	50,489	75,767	0	0	7,473	8,086
Maryland	33,068	46,457	-29.0%	0	0	31,111	44,652	0	0	1,957	1,804
North Carolina	213,039	247,319	-14.0%	185,915	212,560	25,580	34,602	0	0	1,544	157
South Carolina	94,948	109,616	-13.0%	79,657	90,243	14,324	17,794	0	0	966	1,579
Virginia	248,787	260,809	-4.6%	153,215	179,951	87,621	74,322	0	0	7,951	6,535
West Virginia	14,688	12,577	17.0%	1,552	1,373	6,304	8,339	0	0	6,831	2,865
East South Central	645,265	802,559	-20.0%	428,502	529,376	201,871	263,894	0	0	14,892	9,288
Alabama	278,054	335,074	-17.0%	101,169	97,215	176,885	237,859	0	0	0	0
Kentucky	41,091	57,704	-29.0%	37,537	52,637	3,554	5,067	0	0	0	0
Mississippi	253,446	324,232	-22.0%	232,015	303,264	21,432	20,968	0	0	0	0
Tennessee	72,674	85,548	-15.0%	57,782	76,260	0	0	0	0	14,892	9,288
West South Central	1,798,297	2,476,601	-27.0%	411,170	765,660	948,432	1,196,015	0	0	438,695	514,925
Arkansas	61,748	116,169	-47.0%	49	45,315	60,079	69,003	0	0	1,620	1,850
Louisiana	363,171	461,486	-21.0%	172,492	239,653	29,003	43,851	0	0	161,676	177,983
Oklahoma	174,702	238,859	-27.0%	101,417	167,423	71,460	70,731	0	0	1,824	705
Texas	1,198,676	1,660,087	-28.0%	137,212	313,269	787,889	1,012,430	0	0	273,575	334,388
Mountain	514,470	605,508	-15.0%	416,287	465,668	97,551	139,190	0	0	633	650
Arizona	193,055	232,792	-17.0%	127,414	135,801	65,641	96,991	0	0	0	0
Colorado	75,598	78,434	-3.6%	64,276	66,151	11,321	12,283	0	0	0	0
Idaho	0	18,605	-100.0%	0	11,078	0	7,527	0	0	0	0
Montana	2,639	2,977	-11.0%	2,639	2,958	0	18	0	0	0	0
Nevada	152,354	162,691	-6.4%	152,354	162,691	0	0	0	0	0	0
New Mexico	58,504	62,884	-7.0%	39,199	41,527	19,305	21,358	0	0	0	0
Utah	31,476	46,973	-33.0%	29,573	45,322	1,270	1,002	0	0	633	650
Wyoming	844	152	456.0%	831	140	13	12	0	0	0	0
Pacific Contiguous	533,329	646,270	-17.0%	202,896	255,045	304,923	367,000	0	0	25,510	24,225
California	463,436	501,336	-7.6%	170,667	177,881	267,259	299,229	0	0	25,510	24,225
Oregon	47,833	86,691	-45.0%	10,168	41,874	37,664	44,818	0	0	0	0
Washington	22,060	58,243	-62.0%	22,060	35,290	0	22,953	0	0	0	0
Pacific Noncontiguous	1,271	11,063	-89.0%	1,271	11,063	0	0	0	0	0	0
Alaska	1,271	11,063	-89.0%	1,271	11,063	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,791,159	8,870,549	-23.0%	3,271,909	4,243,119	2,987,549	4,027,058	6,156	6,628	525,545	593,745

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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, October 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016
New England	W	W	W	--	4.14	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	4.14	--	--	4.14	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	1.92	W	1.66	--	W	1.92
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	1.91	1.83	4.4%	1.66	--	1.92	1.83
East North Central	1.99	2.06	-3.4%	2.06	2.20	1.86	1.83
Illinois	W	W	W	1.87	1.92	W	W
Indiana	W	W	W	2.09	2.30	W	W
Michigan	W	W	W	2.13	2.24	W	W
Ohio	1.91	2.10	-9.0%	1.73	1.96	1.96	2.15
Wisconsin	2.14	2.19	-2.3%	2.14	2.19	--	--
West North Central	1.69	1.69	0.0%	1.69	1.69	--	--
Iowa	1.57	1.54	1.9%	1.57	1.54	--	--
Kansas	1.66	1.65	0.6%	1.66	1.65	--	--
Minnesota	1.97	2.02	-2.5%	1.97	2.02	--	--
Missouri	1.89	1.90	-0.5%	1.89	1.90	--	--
Nebraska	1.34	1.33	0.8%	1.34	1.33	--	--
North Dakota	1.42	1.41	0.7%	1.42	1.41	--	--
South Dakota	2.06	2.28	-9.6%	2.06	2.28	--	--
South Atlantic	2.69	2.70	-0.4%	2.73	2.73	2.43	2.54
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.03	W	W	3.03	2.92	--	W
Georgia	2.75	2.69	2.2%	2.75	2.69	--	--
Maryland	2.53	2.87	-12.0%	--	--	2.53	2.87
North Carolina	W	W	W	2.97	3.08	W	W
South Carolina	3.33	3.35	-0.6%	3.33	3.35	--	--
Virginia	W	2.99	W	2.84	2.96	W	3.28
West Virginia	W	W	W	2.22	2.22	W	W
East South Central	W	W	W	2.09	2.13	W	W
Alabama	2.14	2.07	3.4%	2.14	2.07	--	--
Kentucky	2.01	2.11	-4.7%	2.01	2.11	--	--
Mississippi	W	W	W	2.33	2.67	W	W
Tennessee	2.44	2.20	11.0%	2.44	2.20	--	--
West South Central	1.80	1.93	-6.7%	2.01	2.12	1.61	1.73
Arkansas	W	W	W	1.94	2.09	W	W
Louisiana	W	W	W	3.02	3.25	W	W
Oklahoma	W	W	W	1.75	1.90	W	W
Texas	1.69	1.83	-7.7%	1.96	2.06	1.58	1.70
Mountain	W	W	W	1.94	1.85	W	W
Arizona	2.25	2.10	7.1%	2.25	2.10	--	--
Colorado	1.73	1.77	-2.3%	1.73	1.77	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.90	1.43	W	W
Nevada	W	W	W	--	2.00	W	W
New Mexico	1.86	1.99	-6.5%	1.86	1.99	--	--
Utah	1.93	1.91	1.0%	1.93	1.91	--	--
Wyoming	W	W	W	1.88	1.59	W	W
Pacific Contiguous	W	W	W	2.31	2.14	W	W
California	--	--	--	--	--	--	--
Oregon	2.31	2.14	7.9%	2.31	2.14	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	2.88	3.04	W	W
Alaska	2.88	3.04	-5.3%	2.88	3.04	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.03	2.06	-1.5%	2.09	2.12	1.83	1.88

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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) October 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	W	3.10	W	4.34	4.07	W	2.86
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	4.07	6.6%	4.34	4.07	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.97	1.96	0.5%	1.66	--	1.97	1.96
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.91	1.90	0.5%	1.66	--	1.91	1.90
East North Central	2.02	2.09	-3.3%	2.10	2.19	1.89	1.95
Illinois	W	W	W	1.85	2.00	W	W
Indiana	W	W	W	2.16	2.25	W	W
Michigan	W	W	W	2.15	2.26	W	W
Ohio	1.93	2.07	-6.8%	1.73	1.91	1.99	2.13
Wisconsin	2.24	2.22	0.9%	2.24	2.22	--	--
West North Central	1.75	1.72	1.7%	1.75	1.72	--	--
Iowa	1.67	1.60	4.4%	1.67	1.60	--	--
Kansas	1.71	1.69	1.2%	1.71	1.69	--	--
Minnesota	2.08	2.07	0.5%	2.08	2.07	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.37	1.35	1.5%	1.37	1.35	--	--
North Dakota	1.60	1.55	3.2%	1.60	1.55	--	--
South Dakota	2.25	2.24	0.4%	2.25	2.24	--	--
South Atlantic	2.70	2.75	-1.8%	2.73	2.79	2.49	2.52
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.95	3.02	W	W
Georgia	2.76	2.81	-1.8%	2.76	2.81	--	--
Maryland	2.70	2.83	-4.6%	--	--	2.70	2.83
North Carolina	W	W	W	2.96	3.09	W	W
South Carolina	3.29	3.20	2.8%	3.29	3.20	--	--
Virginia	W	W	W	2.76	2.90	W	W
West Virginia	W	2.26	W	2.21	2.31	W	2.05
East South Central	W	W	W	2.09	2.20	W	W
Alabama	2.18	2.37	-8.0%	2.18	2.37	--	--
Kentucky	1.99	2.12	-6.1%	1.99	2.12	--	--
Mississippi	W	W	W	2.69	2.68	W	W
Tennessee	2.29	2.22	3.2%	2.29	2.22	--	--
West South Central	1.94	1.91	1.6%	2.07	2.15	1.82	1.66
Arkansas	W	W	W	2.05	2.19	W	W
Louisiana	W	W	W	2.41	2.84	W	W
Oklahoma	W	W	W	1.84	1.91	W	W
Texas	1.90	1.80	5.6%	2.09	2.10	1.80	1.62
Mountain	W	W	W	1.91	1.89	W	W
Arizona	2.24	2.14	4.7%	2.24	2.14	--	--
Colorado	1.77	1.88	-5.9%	1.77	1.88	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.76	1.75	W	W
Nevada	W	W	W	3.08	2.02	W	W
New Mexico	1.97	1.85	6.5%	1.97	1.85	--	--
Utah	1.96	1.95	0.5%	1.96	1.95	--	--
Wyoming	W	W	W	1.70	1.70	W	W
Pacific Contiguous	W	W	W	2.31	2.25	W	W
California	--	--	--	--	--	--	--
Oregon	2.31	2.25	2.7%	2.31	2.25	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.04	3.09	W	W
Alaska	3.04	3.09	-1.6%	3.04	3.09	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.07	2.11	-1.9%	2.12	2.17	1.93	1.93

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016
New England	W	W	W	14.58	12.82	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	14.58	12.82	14.0%	14.58	12.82	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	--	7.59	W	W
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	7.59	W	W
Pennsylvania	14.41	10.65	35.0%	--	--	14.41	10.65
East North Central	14.77	11.93	24.0%	14.86	12.44	14.66	11.63
Illinois	W	W	W	15.35	12.01	W	W
Indiana	14.69	12.12	21.0%	14.69	12.12	--	--
Michigan	14.59	12.39	18.0%	14.59	12.39	--	--
Ohio	W	W	W	15.99	12.92	W	W
Wisconsin	14.48	--	--	14.48	--	--	--
West North Central	14.17	W	W	14.17	12.33	--	W
Iowa	14.17	12.55	13.0%	14.17	12.55	--	--
Kansas	14.10	--	--	14.10	--	--	--
Minnesota	14.22	W	W	14.22	12.60	--	W
Missouri	14.18	11.89	19.0%	14.18	11.89	--	--
Nebraska	14.49	13.74	5.5%	14.49	13.74	--	--
North Dakota	--	12.82	--	--	12.82	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	12.51	12.41	0.8%	13.21	12.46	11.77	12.36
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	12.14	W	W	12.14	15.91	--	W
Georgia	13.18	11.71	13.0%	13.18	11.71	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	13.64	W	W	13.64	12.01	--	W
South Carolina	13.93	12.49	12.0%	13.93	12.49	--	--
Virginia	W	W	W	11.45	11.73	W	W
West Virginia	14.87	12.15	22.0%	14.87	12.15	--	--
East South Central	W	11.94	W	14.03	11.94	W	--
Alabama	W	12.64	W	13.38	12.64	W	--
Kentucky	14.25	11.93	19.0%	14.25	11.93	--	--
Mississippi	13.17	12.11	8.8%	13.17	12.11	--	--
Tennessee	13.74	11.74	17.0%	13.74	11.74	--	--
West South Central	W	W	W	13.98	11.97	W	W
Arkansas	W	11.97	W	14.04	11.97	W	--
Louisiana	--	12.04	--	--	12.04	--	--
Oklahoma	14.85	12.16	22.0%	14.85	12.16	--	--
Texas	W	W	W	13.32	9.04	W	W
Mountain	W	W	W	15.78	12.21	W	W
Arizona	14.55	11.74	24.0%	14.55	11.74	--	--
Colorado	--	12.55	--	--	12.55	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	W	W	W	--	--	W	W
New Mexico	17.13	13.05	31.0%	17.13	13.05	--	--
Utah	W	W	W	17.21	13.13	W	W
Wyoming	13.88	11.21	24.0%	13.88	11.21	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	11.25	9.22	W	W
Alaska	--	15.57	--	--	15.57	--	--
Hawaii	W	W	W	11.25	9.19	W	W
U.S. Total	11.88	10.00	19.0%	11.98	9.80	11.66	10.39

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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) October 2017 and 2016 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	11.36	8.59	32.0%	14.02	9.60	11.26	8.33
Connecticut	W	9.48	W	--	--	W	9.48
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	14.02	9.68	45.0%	14.02	9.68	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	10.42	W	9.22	8.41	W	10.96
New Jersey	W	9.75	W	--	--	W	9.75
New York	13.16	10.61	24.0%	9.22	8.41	20.40	11.92
Pennsylvania	W	10.20	W	--	--	W	10.20
East North Central	12.75	W	W	12.73	10.57	12.79	W
Illinois	13.05	10.68	22.0%	12.77	10.80	13.07	10.67
Indiana	12.61	10.38	21.0%	12.61	10.38	--	--
Michigan	12.44	10.39	20.0%	12.44	10.39	--	--
Ohio	12.97	W	W	13.58	10.79	12.69	W
Wisconsin	12.25	W	W	12.25	11.52	--	W
West North Central	12.55	W	W	12.55	10.32	--	W
Iowa	12.72	10.64	20.0%	12.72	10.64	--	--
Kansas	12.56	10.14	24.0%	12.56	10.14	--	--
Minnesota	12.63	W	W	12.63	11.21	--	W
Missouri	12.69	10.43	22.0%	12.69	10.43	--	--
Nebraska	12.66	11.03	15.0%	12.66	11.03	--	--
North Dakota	12.15	9.16	33.0%	12.15	9.16	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	W	9.95	W	12.28	9.87	W	10.31
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.36	W	W	12.36	11.66	--	W
Georgia	W	9.08	W	11.81	9.38	W	7.68
Maryland	11.17	9.50	18.0%	--	--	11.17	9.50
North Carolina	W	9.48	W	12.41	10.03	W	7.91
South Carolina	12.81	10.86	18.0%	12.81	10.86	--	--
Virginia	W	W	W	10.98	8.02	W	W
West Virginia	12.99	11.04	18.0%	12.99	11.04	--	--
East South Central	W	W	W	12.21	10.13	W	W
Alabama	W	W	W	12.84	9.71	W	W
Kentucky	12.33	10.36	19.0%	12.33	10.36	--	--
Mississippi	11.80	9.19	28.0%	11.80	9.19	--	--
Tennessee	11.91	10.16	17.0%	11.91	10.16	--	--
West South Central	12.39	10.48	18.0%	12.18	10.30	12.58	10.99
Arkansas	W	W	W	12.32	9.86	W	W
Louisiana	--	W	W	--	9.66	--	W
Oklahoma	13.48	12.15	11.0%	13.48	12.15	--	--
Texas	W	W	W	11.98	10.29	W	W
Mountain	13.68	11.18	22.0%	13.70	11.08	13.48	12.15
Arizona	13.27	10.92	22.0%	13.27	10.92	--	--
Colorado	13.60	10.12	34.0%	13.60	10.12	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.34	11.79	W	W
New Mexico	13.64	10.82	26.0%	13.64	10.82	--	--
Utah	W	W	W	14.32	11.65	W	W
Wyoming	13.91	11.35	23.0%	13.91	11.35	--	--
Pacific Contiguous	W	W	W	12.71	11.19	W	W
California	--	--	--	--	--	--	--
Oregon	12.71	11.19	14.0%	12.71	11.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.80	8.21	W	W
Alaska	16.16	13.95	16.0%	16.16	13.95	--	--
Hawaii	W	W	W	10.80	8.21	W	W
U.S. Total	11.48	9.15	25.0%	11.36	8.95	11.84	9.73

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	W	W	--	--	--	W
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	W	W	--	--	--	W
East North Central	1.53	W	W	1.53	1.41	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.47	1.31	12.0%	1.47	1.31	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.76	1.7%	1.79	1.76	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.86	1.66	72.0%	2.86	1.66	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.86	1.66	72.0%	2.86	1.66	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.46	--	--	1.46	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.46	--	--	1.46	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.40	2.02	19.0%	2.40	2.02	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.40	2.02	19.0%	2.40	2.02	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.37	W	W	2.37	1.87	--	W

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W = Withheld to avoid disclosure of individual company data.

Notes:
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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) October 2017 and 2016 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	W	W	--	--	--	W
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	W	W	--	--	--	W
East North Central	1.49	W	W	1.49	1.21	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.46	1.30	12.0%	1.46	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.79	1.71	4.7%	1.79	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.59	1.48	75.0%	2.59	1.48	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.59	1.48	75.0%	2.59	1.48	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.50	1.57	-4.5%	1.50	1.57	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.50	1.57	-4.5%	1.50	1.57	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.16	1.41	53.0%	2.16	1.41	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.16	1.41	53.0%	2.16	1.41	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.11	1.53	38.0%	2.11	1.41	--	2.50

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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, October 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017	October 2016	Percentage Change	October 2017	October 2016	October 2017	October 2016
New England	W	2.78	W	3.26	3.14	W	2.78
Connecticut	2.79	2.39	17.0%	--	--	2.79	2.39
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.20	W	3.05	3.12	W	3.20
New Hampshire	W	W	W	3.85	9.23	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.69	1.60	5.6%	2.37	1.52	1.65	1.61
New Jersey	1.59	1.80	-12.0%	--	--	1.59	1.80
New York	2.26	1.93	17.0%	2.37	1.52	2.24	2.05
Pennsylvania	1.42	1.24	15.0%	--	--	1.42	1.24
East North Central	2.91	2.92	-0.3%	3.02	3.06	2.85	2.82
Illinois	W	3.12	W	3.45	3.54	W	3.09
Indiana	W	W	W	2.95	3.26	W	W
Michigan	3.00	3.09	-2.9%	3.15	3.19	2.97	3.04
Ohio	2.74	2.16	27.0%	2.93	1.64	2.72	2.33
Wisconsin	3.08	W	W	3.08	3.47	--	W
West North Central	W	3.36	W	2.94	3.30	W	4.12
Iowa	2.59	2.83	-8.5%	2.59	2.83	--	--
Kansas	3.17	3.80	-17.0%	3.17	3.80	--	--
Minnesota	W	W	W	3.82	3.99	W	W
Missouri	2.62	W	W	2.62	3.21	--	W
Nebraska	3.79	3.30	15.0%	3.79	3.30	--	--
North Dakota	8.71	2.92	198.0%	8.71	2.92	--	--
South Dakota	--	3.19	--	--	3.19	--	--
South Atlantic	3.91	3.82	2.4%	4.06	3.94	2.67	2.85
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.41	4.06	W	W
Georgia	W	3.47	W	3.60	3.48	W	3.38
Maryland	3.05	2.65	15.0%	--	--	3.05	2.65
North Carolina	W	W	W	3.83	4.11	W	W
South Carolina	W	W	W	3.35	3.37	W	W
Virginia	W	W	W	2.80	4.19	W	W
West Virginia	W	1.60	W	2.65	2.95	W	1.52
East South Central	3.09	3.18	-2.8%	3.08	3.17	3.11	3.24
Alabama	W	W	W	3.12	3.31	W	W
Kentucky	W	W	W	3.78	3.57	W	W
Mississippi	W	W	W	3.04	3.06	W	W
Tennessee	2.87	3.13	-8.3%	2.87	3.13	--	--
West South Central	3.02	3.16	-4.4%	3.12	3.25	2.96	3.10
Arkansas	W	W	W	2.96	3.49	W	W
Louisiana	W	W	W	3.14	3.22	W	W
Oklahoma	W	W	W	2.98	3.24	W	W
Texas	3.03	3.15	-3.8%	3.19	3.24	2.99	3.12
Mountain	W	3.37	W	3.17	3.44	W	2.82
Arizona	W	W	W	3.29	3.68	W	W
Colorado	W	W	W	3.26	3.61	W	W
Idaho	--	4.78	--	--	4.78	--	--
Montana	0.69	W	W	0.69	2.00	--	W
Nevada	3.04	3.33	-8.7%	3.04	3.33	--	--
New Mexico	3.20	3.16	1.3%	3.20	3.16	--	--
Utah	W	W	W	3.53	3.21	W	W
Wyoming	W	11.04	W	3.82	11.04	W	--
Pacific Contiguous	3.47	3.17	9.5%	3.74	3.52	3.23	2.85
California	W	3.23	W	3.97	3.66	W	2.92
Oregon	W	W	W	2.43	2.63	W	W
Washington	3.39	W	W	3.39	4.20	--	W
Pacific Noncontiguous	8.09	6.83	18.0%	8.09	6.83	--	--
Alaska	8.09	6.83	18.0%	8.09	6.83	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.17	3.13	1.3%	3.59	3.53	2.60	2.60

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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) October 2017 and 2016 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	October 2017 YTD	October 2016 YTD	Percentage Change	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	W	3.10	W	3.37	3.50	W	3.09
Connecticut	W	3.41	W	--	--	W	3.41
Maine	W	W	W	--	--	W	W
Massachusetts	3.29	2.95	12.0%	3.13	3.38	3.29	2.95
New Hampshire	W	W	W	3.80	3.91	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.74	2.05	34.0%	3.37	2.46	2.66	2.01
New Jersey	2.71	1.99	36.0%	--	--	2.71	1.99
New York	3.18	2.47	29.0%	3.37	2.46	3.11	2.47
Pennsylvania	2.39	1.71	40.0%	--	--	2.39	1.71
East North Central	3.08	2.56	20.0%	3.12	2.70	3.05	2.45
Illinois	3.09	2.75	12.0%	3.80	3.00	3.09	2.73
Indiana	W	W	W	3.07	2.84	W	W
Michigan	3.17	2.64	20.0%	3.38	2.82	3.12	2.53
Ohio	2.90	2.14	36.0%	2.81	2.16	2.94	2.13
Wisconsin	W	W	W	3.30	2.70	W	W
West North Central	W	2.83	W	3.20	2.83	W	2.80
Iowa	2.70	2.56	5.5%	2.70	2.56	--	--
Kansas	3.53	3.28	7.6%	3.53	3.28	--	--
Minnesota	W	W	W	3.48	2.97	W	W
Missouri	3.02	W	W	3.02	2.78	--	W
Nebraska	3.77	3.06	23.0%	3.77	3.06	--	--
North Dakota	5.10	2.55	100.0%	5.10	2.55	--	--
South Dakota	--	2.43	--	--	2.43	--	--
South Atlantic	3.88	3.36	15.0%	3.97	3.47	3.04	2.57
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.70	W	4.19	3.73	W	2.84
Georgia	W	2.89	W	3.61	2.95	W	2.68
Maryland	W	2.83	W	--	--	W	2.83
North Carolina	W	W	W	3.96	3.62	W	W
South Carolina	W	W	W	3.51	3.23	W	W
Virginia	3.21	W	W	3.49	2.82	2.43	W
West Virginia	W	W	W	2.96	2.42	W	W
East South Central	3.25	2.73	19.0%	3.24	2.74	3.27	2.72
Alabama	W	W	W	3.37	2.83	W	W
Kentucky	W	W	W	3.70	3.06	W	W
Mississippi	W	W	W	3.16	2.71	W	W
Tennessee	3.03	2.50	21.0%	3.03	2.50	--	--
West South Central	3.10	2.57	21.0%	3.21	2.67	3.04	2.49
Arkansas	W	W	W	3.18	3.00	W	W
Louisiana	W	W	W	3.27	2.63	W	W
Oklahoma	W	W	W	3.18	2.67	W	W
Texas	3.06	2.54	20.0%	3.15	2.64	3.04	2.51
Mountain	3.45	2.88	20.0%	3.45	2.89	3.34	2.74
Arizona	3.56	W	W	3.63	3.09	3.01	W
Colorado	W	W	W	3.43	3.02	W	W
Idaho	--	2.80	--	--	2.80	--	--
Montana	1.77	W	W	1.77	1.71	--	W
Nevada	3.38	2.81	20.0%	3.38	2.81	--	--
New Mexico	3.39	2.83	20.0%	3.39	2.83	--	--
Utah	W	W	W	3.34	2.54	W	W
Wyoming	W	W	W	3.41	8.44	W	W
Pacific Contiguous	3.58	2.85	26.0%	3.90	3.17	3.27	2.53
California	W	2.97	W	4.03	3.41	W	2.61
Oregon	W	W	W	2.64	2.25	W	W
Washington	3.72	W	W	3.72	3.28	--	W
Pacific Noncontiguous	8.09	6.54	24.0%	8.09	6.54	--	--
Alaska	8.09	6.54	24.0%	8.09	6.54	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.38	2.79	21.0%	3.64	3.06	3.03	2.44

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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, October 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	7	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	7	0.67	7.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,178	3.27	8.9	0	--	--	0	--	--
New Jersey	57	1.79	7.5	0	--	--	0	--	--
New York	8	2.87	7.7	0	--	--	0	--	--
Pennsylvania	1,113	3.35	9.0	0	--	--	0	--	--
East North Central	5,198	3.16	10.3	5,834	0.25	4.7	0	--	--
Illinois	750	3.62	20.2	2,385	0.21	4.7	0	--	--
Indiana	2,263	2.77	8.8	146	0.25	4.5	0	--	--
Michigan	97	2.30	7.4	1,901	0.28	4.6	0	--	--
Ohio	2,043	3.48	9.3	46	0.28	5.2	0	--	--
Wisconsin	46	2.54	9.1	1,356	0.25	5.0	0	--	--
West North Central	98	3.17	9.0	7,724	0.27	5.0	1,944	0.83	9.7
Iowa	32	3.55	8.0	1,436	0.25	4.7	0	--	--
Kansas	15	3.41	13.7	1,137	0.32	4.8	0	--	--
Minnesota	0	--	--	1,037	0.36	5.9	0	--	--
Missouri	50	2.85	8.3	3,063	0.23	4.7	0	--	--
Nebraska	0	--	--	995	0.27	5.0	0	--	--
North Dakota	0	--	--	0	--	--	1,944	0.83	9.7
South Dakota	0	--	--	57	0.33	5.2	0	--	--
South Atlantic	6,060	2.42	10.0	951	0.34	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,295	2.03	8.1	0	--	--	0	--	--
Georgia	594	2.59	7.8	937	0.34	4.8	0	--	--
Maryland	337	2.58	10.2	13	0.60	8.4	0	--	--
North Carolina	937	1.79	9.6	0	--	--	0	--	--
South Carolina	501	1.76	9.1	0	--	--	0	--	--
Virginia	165	1.05	11.0	0	--	--	0	--	--
West Virginia	2,230	3.09	11.9	0	--	--	0	--	--
East South Central	2,602	2.68	9.8	1,454	0.27	5.1	155	0.36	12.2
Alabama	432	1.66	13.1	818	0.29	5.3	0	--	--
Kentucky	1,875	3.10	9.2	392	0.25	5.0	0	--	--
Mississippi	37	2.97	8.5	70	0.30	4.9	155	0.36	12.2
Tennessee	258	1.42	7.8	175	0.24	5.0	0	--	--
West South Central	51	1.99	14.9	8,017	0.28	5.1	2,446	1.02	16.7
Arkansas	3	0.62	10.7	1,496	0.23	4.7	0	--	--
Louisiana	18	2.82	8.6	523	0.27	4.9	129	0.66	20.3
Oklahoma	30	1.61	19.2	1,122	0.22	4.9	0	--	--
Texas	0	--	--	4,875	0.30	5.3	2,316	1.04	16.5
Mountain	2,190	0.58	13.5	5,004	0.50	8.3	14	0.58	8.9
Arizona	611	0.59	10.1	915	0.50	10.0	0	--	--
Colorado	163	0.45	10.5	1,424	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	735	0.68	9.5	14	0.58	8.9
Nevada	0	--	--	46	0.34	5.2	0	--	--
New Mexico	548	0.70	21.0	209	0.79	21.1	0	--	--
Utah	869	0.54	12.2	66	1.02	9.0	0	--	--
Wyoming	0	--	--	1,610	0.53	7.6	0	--	--
Pacific Contiguous	55	0.47	10.7	565	0.42	8.0	0	--	--
California	55	0.47	10.7	0	--	--	0	--	--
Oregon	0	--	--	152	0.24	4.8	0	--	--
Washington	0	--	--	413	0.49	9.2	0	--	--
Pacific Noncontiguous	0	--	--	63	0.21	5.0	7	0.13	6.5
Alaska	0	--	--	0	--	--	7	0.13	6.5
Hawaii	0	--	--	63	0.21	5.0	0	--	--
U.S. Total	17,437	2.52	10.4	29,610	0.31	5.6	4,566	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 are preliminary. Values for 2016 are final. 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, October 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	26	4.19	10.1	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	26	4.19	10.1	0	--	--	0	--	--
East North Central	2,925	2.85	8.8	3,848	0.26	4.7	0	--	--
Illinois	169	3.08	11.7	446	0.19	4.6	0	--	--
Indiana	2,127	2.72	8.7	146	0.25	4.5	0	--	--
Michigan	78	2.65	7.6	1,901	0.28	4.6	0	--	--
Ohio	518	3.26	8.5	0	--	--	0	--	--
Wisconsin	33	3.28	8.5	1,356	0.25	5.0	0	--	--
West North Central	64	2.98	9.6	7,503	0.27	5.0	1,944	0.83	9.7
Iowa	0	--	--	1,278	0.26	4.7	0	--	--
Kansas	15	3.41	13.7	1,137	0.32	4.8	0	--	--
Minnesota	0	--	--	1,037	0.36	5.9	0	--	--
Missouri	49	2.85	8.3	3,063	0.23	4.7	0	--	--
Nebraska	0	--	--	932	0.27	5.1	0	--	--
North Dakota	0	--	--	0	--	--	1,944	0.83	9.7
South Dakota	0	--	--	57	0.33	5.2	0	--	--
South Atlantic	5,173	2.36	9.7	937	0.34	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,285	2.04	8.1	0	--	--	0	--	--
Georgia	578	2.63	7.7	937	0.34	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	915	1.81	9.7	0	--	--	0	--	--
South Carolina	494	1.78	9.1	0	--	--	0	--	--
Virginia	109	1.17	12.6	0	--	--	0	--	--
West Virginia	1,793	3.01	11.4	0	--	--	0	--	--
East South Central	2,531	2.74	9.9	1,454	0.27	5.1	0	--	--
Alabama	432	1.66	13.1	818	0.29	5.3	0	--	--
Kentucky	1,875	3.10	9.2	392	0.25	5.0	0	--	--
Mississippi	37	2.97	8.5	70	0.30	4.9	0	--	--
Tennessee	187	1.66	8.2	175	0.24	5.0	0	--	--
West South Central	18	2.82	8.6	4,259	0.25	4.9	703	1.41	21.3
Arkansas	0	--	--	1,249	0.21	4.7	0	--	--
Louisiana	18	2.82	8.6	341	0.27	4.9	129	0.66	20.3
Oklahoma	0	--	--	1,051	0.22	4.9	0	--	--
Texas	0	--	--	1,617	0.28	5.1	574	1.59	21.5
Mountain	2,171	0.58	13.5	4,176	0.47	8.1	14	0.58	8.9
Arizona	611	0.59	10.1	915	0.50	10.0	0	--	--
Colorado	163	0.45	10.5	1,424	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	14	0.58	8.9
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	548	0.70	21.0	209	0.79	21.1	0	--	--
Utah	849	0.54	12.2	66	1.02	9.0	0	--	--
Wyoming	0	--	--	1,562	0.53	7.6	0	--	--
Pacific Contiguous	0	--	--	152	0.24	4.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	152	0.24	4.8	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	7	0.13	6.5
Alaska	0	--	--	0	--	--	7	0.13	6.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,907	2.28	10.1	22,329	0.30	5.5	2,669	0.97	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 are preliminary. Values for 2016 are final. 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, October 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	7	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	7	0.67	7.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,133	3.26	8.9	0	--	--	0	--	--
New Jersey	57	1.79	7.5	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,076	3.34	9.0	0	--	--	0	--	--
East North Central	2,146	3.57	12.4	1,939	0.21	4.7	0	--	--
Illinois	466	3.85	27.6	1,892	0.21	4.7	0	--	--
Indiana	135	3.60	9.6	0	--	--	0	--	--
Michigan	18	0.36	5.9	0	--	--	0	--	--
Ohio	1,526	3.55	9.6	46	0.28	5.2	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	792	2.98	11.8	13	0.60	8.4	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	321	2.61	9.7	13	0.60	8.4	0	--	--
North Carolina	1	0.76	5.8	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	33	0.92	9.0	0	--	--	0	--	--
West Virginia	437	3.44	13.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	155	0.36	12.2
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	155	0.36	12.2
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	30	1.61	19.2	3,743	0.31	5.3	1,742	0.89	15.0
Arkansas	0	--	--	247	0.29	5.0	0	--	--
Louisiana	0	--	--	182	0.27	4.8	0	--	--
Oklahoma	30	1.61	19.2	56	0.24	5.3	0	--	--
Texas	0	--	--	3,258	0.32	5.3	1,742	0.89	15.0
Mountain	0	--	--	828	0.65	9.1	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	735	0.68	9.5	0	--	--
Nevada	0	--	--	46	0.34	5.2	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	47	0.46	6.7	0	--	--
Pacific Contiguous	0	--	--	413	0.49	9.2	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	413	0.49	9.2	0	--	--
Pacific Noncontiguous	0	--	--	63	0.21	5.0	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	63	0.21	5.0	0	--	--
U.S. Total	4,107	3.35	11.3	6,998	0.33	5.8	1,898	0.85	14.8

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 are preliminary. Values for 2016 are final. 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, October 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	2	2.96	8.4	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	2	2.96	8.4	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	2	2.96	8.4	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 are preliminary. Values for 2016 are final. 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, October 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	19	2.61	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	8	2.87	7.7	0	--	--	0	--	--
Pennsylvania	11	2.43	7.4	0	--	--	0	--	--
East North Central	128	3.33	8.9	47	0.80	6.5	0	--	--
Illinois	114	3.68	8.7	47	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	10.7	0	--	--	0	--	--
West North Central	32	3.55	8.0	221	0.22	4.5	0	--	--
Iowa	32	3.55	8.0	158	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	63	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	94	1.00	9.7	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	10	0.71	7.1	0	--	--	0	--	--
Georgia	16	1.20	10.1	0	--	--	0	--	--
Maryland	16	1.79	21.9	0	--	--	0	--	--
North Carolina	21	0.85	6.9	0	--	--	0	--	--
South Carolina	7	0.77	7.8	0	--	--	0	--	--
Virginia	24	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	71	0.89	7.0	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	71	0.89	7.0	0	--	--	0	--	--
West South Central	3	0.62	10.7	15	0.19	4.5	0	--	--
Arkansas	3	0.62	10.7	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	15	0.19	4.5	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	20	0.49	9.8	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	20	0.49	9.8	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	55	0.47	10.7	0	--	--	0	--	--
California	55	0.47	10.7	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	421	1.79	8.9	283	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 are preliminary. Values for 2016 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2007 - October 2017 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,411,058	1,367,191	976,715	7,497	3,762,462
Year 2015					
January	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
Year 2016					
January	130,972	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	128,998	108,928	75,783	666	314,375
February	101,149	99,207	71,933	636	272,925
March	103,205	106,683	77,550	644	288,082
April	90,781	101,372	75,851	590	268,593
May	98,757	109,456	80,072	583	288,868
June	121,782	118,815	82,147	629	323,373
July	148,890	127,902	84,213	630	361,635
August	141,745	127,573	85,814	641	355,773
Sept	118,803	118,293	80,163	619	317,879
October	102,984	113,035	79,432	626	296,077
Year to Date					
2015	1,199,748	1,149,782	829,789	6,413	3,185,732
2016	1,196,533	1,151,959	819,677	6,252	3,174,422
2017	1,157,094	1,131,265	792,957	6,264	3,087,579
Rolling 12 Months Ending in October					
2016	1,400,881	1,362,929	976,396	7,476	3,747,683
2017	1,371,619	1,346,497	949,995	7,509	3,675,619

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 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, 2007 - October 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	177,077	142,643	66,068	722	386,509
Year 2015					
January	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
Year 2016					
January	15,704	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	15,757	11,140	4,984	62	31,944
February	12,932	10,396	4,760	60	28,148
March	13,309	11,174	5,220	61	29,764
April	11,523	10,540	5,015	56	27,135
May	12,857	11,586	5,453	56	29,952
June	16,098	13,062	5,926	64	35,149
July	19,534	14,065	6,180	64	39,843
August	18,699	14,086	6,215	65	39,064
Sept	15,801	13,087	5,783	62	34,733
October	13,220	12,230	5,524	60	31,034
Year to Date					
2015	152,089	123,234	57,939	652	333,914
2016	150,360	120,596	55,601	605	327,163
2017	149,730	121,366	55,060	609	326,766
Rolling 12 Months Ending in October					
2016	175,895	142,143	65,828	724	384,591
2017	176,446	143,412	65,527	726	386,112

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Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - October 2017 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.43	6.76	9.63	10.27
Year 2015					
January	12.10	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
Year 2016					
January	11.99	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	12.22	10.23	6.58	9.38	10.16
February	12.78	10.48	6.62	9.47	10.31
March	12.90	10.47	6.73	9.47	10.33
April	12.69	10.40	6.61	9.44	10.10
May	13.02	10.59	6.81	9.58	10.37
June	13.22	10.99	7.21	10.14	10.87
July	13.12	11.00	7.34	10.13	11.02
August	13.19	11.04	7.24	10.07	10.98
Sept	13.30	11.06	7.21	10.01	10.93
October	12.84	10.82	6.95	9.57	10.48
Year to Date					
2015	12.68	10.72	6.98	10.16	10.48
2016	12.57	10.47	6.78	9.68	10.31
2017	12.94	10.73	6.94	9.73	10.58
Rolling 12 Months Ending in October					
2016	12.56	10.43	6.74	9.69	10.26
2017	12.86	10.65	6.90	9.67	10.50

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
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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, October 2017 and 2016 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	3,399	3,210	4,583	4,242	1,484	1,475	46	42	9,512	8,969
Connecticut	841	821	1,001	992	263	268	17	13	2,122	2,094
Maine	323	328	322	309	285	249	0	0	930	886
Massachusetts	1,578	1,378	2,459	2,130	596	609	27	26	4,659	4,144
New Hampshire	310	317	353	360	164	171	0	0	827	848
Rhode Island	203	219	285	286	58	59	2	2	549	566
Vermont	144	147	163	165	117	118	0	0	424	429
Middle Atlantic	9,222	9,137	12,776	12,747	6,007	6,003	313	312	28,318	28,199
New Jersey	1,906	1,883	3,039	3,116	572	642	24	23	5,541	5,665
New York	3,694	3,717	6,288	6,145	1,443	1,397	231	222	11,655	11,481
Pennsylvania	3,622	3,538	3,449	3,486	3,993	3,964	59	67	11,122	11,054
East North Central	12,290	12,194	15,031	15,036	15,363	16,033	50	42	42,734	43,305
Illinois	2,908	2,971	4,177	4,050	3,475	3,614	45	38	10,605	10,673
Indiana	2,133	2,111	1,963	1,984	3,296	3,673	2	1	7,392	7,770
Michigan	2,422	2,373	3,195	3,230	2,432	2,422	0	0	8,049	8,026
Ohio	3,376	3,244	3,735	3,842	4,062	4,264	2	2	11,175	11,353
Wisconsin	1,451	1,495	1,962	1,929	2,099	2,059	0	0	5,512	5,483
West North Central	6,888	6,790	8,224	8,337	7,295	7,451	4	4	22,411	22,581
Iowa	970	903	1,027	1,024	1,942	1,849	0	0	3,938	3,775
Kansas	897	887	1,301	1,302	888	917	0	0	3,086	3,106
Minnesota	1,492	1,508	1,801	1,904	1,762	1,813	2	2	5,057	5,226
Missouri	2,248	2,206	2,453	2,451	983	1,132	2	2	5,686	5,791
Nebraska	655	649	755	754	832	872	0	0	2,242	2,274
North Dakota	316	333	505	528	653	631	0	0	1,474	1,493
South Dakota	310	305	383	373	234	237	0	0	927	916
South Atlantic	26,596	25,665	25,537	25,433	11,737	11,610	107	112	63,976	62,819
Delaware	316	312	347	337	165	200	0	0	828	849
District of Columbia	170	174	666	656	16	15	28	31	880	875
Florida	10,560	10,385	8,107	8,115	1,357	1,367	6	7	20,031	19,875
Georgia	4,222	4,088	3,903	3,882	2,689	2,694	14	13	10,828	10,678
Maryland	1,663	1,595	2,331	2,374	302	308	41	44	4,338	4,321
North Carolina	3,728	3,616	3,876	3,821	2,210	2,268	0	1	9,815	9,705
South Carolina	2,177	2,017	1,801	1,696	2,333	2,208	0	0	6,311	5,922
Virginia	3,049	2,820	3,867	3,938	1,465	1,467	18	16	8,400	8,242
West Virginia	709	657	637	615	1,200	1,083	0	0	2,546	2,355
East South Central	8,384	8,474	7,462	7,808	8,116	8,430	0	0	23,962	24,713
Alabama	2,301	2,266	1,877	1,935	2,763	2,670	0	0	6,940	6,871
Kentucky	1,673	1,686	1,564	1,612	2,306	2,392	0	0	5,543	5,690
Mississippi	1,493	1,526	1,227	1,297	1,343	1,346	0	0	4,063	4,170
Tennessee	2,917	2,996	2,794	2,964	1,704	2,022	0	0	7,415	7,982
West South Central	17,802	17,875	16,971	17,182	15,175	15,729	18	17	49,965	50,804
Arkansas	1,384	1,408	1,056	1,074	1,472	1,337	0	0	3,912	3,819
Louisiana	2,608	2,695	2,187	2,235	2,944	2,999	1	1	7,740	7,930
Oklahoma	1,640	1,622	1,712	1,733	1,387	1,476	0	0	4,739	4,831
Texas	12,170	12,149	12,015	12,140	9,373	9,917	16	16	33,574	34,223
Mountain	6,993	6,821	7,926	8,061	6,590	6,914	13	12	21,522	21,807
Arizona	2,557	2,596	2,487	2,504	1,123	1,268	1	1	6,168	6,369
Colorado	1,380	1,335	1,622	1,727	1,304	1,275	8	5	4,313	4,342
Idaho	594	550	512	503	576	578	0	0	1,681	1,631
Montana	356	341	390	398	352	350	0	0	1,097	1,088
Nevada	798	713	923	947	991	1,149	1	1	2,712	2,809
New Mexico	460	466	745	709	658	649	0	0	1,863	1,824
Utah	638	632	940	937	744	757	4	5	2,326	2,331
Wyoming	210	189	307	335	844	889	0	0	1,361	1,413
Pacific Contiguous	11,018	10,947	14,032	13,622	7,229	7,500	75	73	32,354	32,142
California	7,144	7,101	10,247	9,904	4,244	4,332	73	70	21,708	21,408
Oregon	1,320	1,338	1,346	1,356	979	1,050	2	2	3,647	3,747
Washington	2,554	2,508	2,439	2,361	2,006	2,118	1	1	7,000	6,987
Pacific Noncontiguous	393	394	494	495	436	453	0	0	1,323	1,342
Alaska	159	NM	220	220	116	122	0	0	495	506
Hawaii	234	229	274	275	320	331	0	0	828	836
U.S. Total	102,984	101,508	113,035	112,963	79,432	81,597	626	613	296,077	296,681

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 for 2016 are final. Values for 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.
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 October 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	38,194	39,234	43,478	44,526	13,894	15,064	460	455	96,026	99,279
Connecticut	10,244	10,714	10,296	10,748	2,613	2,832	150	151	23,303	24,445
Maine	3,825	3,812	3,354	3,347	2,259	2,399	0	0	9,438	9,558
Massachusetts	16,314	16,647	21,501	21,885	5,614	6,303	287	281	43,716	45,116
New Hampshire	3,650	3,741	3,657	3,780	1,634	1,689	0	0	8,941	9,210
Rhode Island	2,510	2,621	3,018	3,076	616	641	23	23	6,167	6,360
Vermont	1,650	1,700	1,652	1,691	1,158	1,199	0	0	4,461	4,590
Middle Atlantic	107,360	113,403	130,052	133,746	59,755	60,430	3,201	3,211	300,368	310,789
New Jersey	23,568	24,988	31,697	32,641	5,862	6,132	256	254	61,382	64,016
New York	41,141	43,196	62,720	64,512	14,224	14,775	2,306	2,291	120,392	124,774
Pennsylvania	42,650	45,219	35,635	36,592	39,669	39,523	640	665	118,594	121,999
East North Central	147,679	157,692	152,661	156,371	153,742	164,069	480	482	454,563	478,614
Illinois	36,333	38,874	41,806	42,770	34,682	36,634	426	427	113,248	118,705
Indiana	25,620	27,682	19,920	20,458	33,875	39,129	16	17	79,431	87,287
Michigan	27,358	29,030	32,486	32,887	24,766	25,978	5	4	84,614	87,898
Ohio	40,842	44,045	38,652	40,211	40,121	42,124	33	34	119,647	126,414
Wisconsin	17,526	18,060	19,797	20,045	20,299	20,204	0	0	57,622	58,310
West North Central	83,893	85,951	85,019	86,154	72,893	74,793	39	37	241,843	246,935
Iowa	11,421	11,721	10,104	10,211	18,775	18,284	0	0	40,300	40,216
Kansas	11,055	11,561	13,027	13,428	9,114	9,523	0	0	33,196	34,511
Minnesota	17,706	18,015	19,201	19,695	17,355	17,691	20	20	54,282	55,421
Missouri	27,960	28,985	25,534	25,923	9,855	11,403	19	18	63,368	66,329
Nebraska	8,177	8,116	7,967	7,782	9,020	9,363	0	0	25,164	25,261
North Dakota	3,771	3,770	5,136	5,191	6,445	6,176	0	0	15,351	15,138
South Dakota	3,804	3,783	4,048	3,922	2,330	2,352	0	0	10,182	10,057
South Atlantic	291,928	308,156	260,408	264,898	115,278	117,569	1,080	1,119	668,694	691,741
Delaware	3,898	4,071	3,503	3,577	1,765	1,888	0	0	9,166	9,536
District of Columbia	2,032	2,169	6,727	7,072	148	166	277	283	9,185	9,690
Florida	102,718	106,390	79,812	80,683	13,739	14,052	74	80	196,343	201,205
Georgia	46,495	49,760	39,294	40,613	26,270	27,221	141	143	112,201	117,738
Maryland	21,447	22,996	24,200	25,004	3,120	3,187	436	451	49,204	51,637
North Carolina	46,187	49,415	40,369	41,163	22,437	22,973	3	6	108,996	113,558
South Carolina	24,603	26,165	18,332	18,993	22,548	22,398	0	0	65,483	67,556
Virginia	36,102	37,837	41,871	41,225	14,047	14,938	149	156	92,170	94,156
West Virginia	8,444	9,353	6,299	6,567	11,203	10,746	0	0	25,946	26,666
East South Central	94,943	101,564	74,934	79,419	83,065	84,021	0	0	252,942	265,005
Alabama	25,606	27,514	19,054	20,119	27,754	27,236	0	0	72,415	74,868
Kentucky	20,703	22,290	15,825	16,882	23,213	23,568	0	0	59,741	62,740
Mississippi	15,150	15,913	11,729	12,346	13,765	13,443	0	0	40,645	41,702
Tennessee	33,483	35,847	28,326	30,073	18,332	19,775	0	0	80,141	85,695
West South Central	181,553	187,493	161,782	166,504	150,903	153,714	162	161	494,401	507,872
Arkansas	14,584	15,280	10,096	10,312	14,099	13,584	0	0	38,779	39,176
Louisiana	25,290	26,457	20,704	21,026	28,810	30,179	11	10	74,814	77,672
Oklahoma	18,893	19,530	16,969	17,443	14,465	15,057	0	0	50,327	52,030
Texas	122,787	126,227	114,013	117,723	93,530	94,894	151	150	330,481	338,994
Mountain	84,441	82,504	81,834	80,485	68,766	70,458	119	113	235,160	233,561
Arizona	30,236	29,519	25,378	25,213	11,431	12,690	6	6	67,051	67,428
Colorado	15,814	15,801	17,060	17,433	13,017	12,570	58	54	45,949	45,857
Idaho	7,022	6,497	5,300	5,198	7,593	7,622	0	0	19,916	19,317
Montana	4,219	3,932	4,174	4,018	3,643	3,681	0	0	12,036	11,630
Nevada	11,326	11,034	9,581	8,365	10,549	11,571	7	7	31,464	30,976
New Mexico	5,633	5,627	7,533	7,408	6,303	6,341	0	0	19,469	19,376
Utah	7,947	7,883	9,712	9,721	7,706	7,640	48	47	25,412	25,291
Wyoming	2,242	2,213	3,097	3,129	8,524	8,343	0	0	13,863	13,685
Pacific Contiguous	123,237	116,765	136,245	134,999	70,468	75,296	722	675	330,673	327,735
California	77,556	74,815	97,531	97,744	40,411	43,140	696	650	216,194	216,349
Oregon	16,018	14,802	13,771	13,276	9,918	10,639	21	20	39,728	38,738
Washington	29,663	27,148	24,943	23,979	20,139	21,516	5	5	74,750	72,648
Pacific Noncontiguous	3,866	3,770	4,851	4,857	4,192	4,264	0	0	12,910	12,892
Alaska	1,670	NM	2,267	2,247	1,149	1,147	0	0	5,086	4,993
Hawaii	2,196	2,170	2,584	2,610	3,043	3,118	0	0	7,823	7,898
U.S. Total	1,157,094	1,196,533	1,131,265	1,151,959	792,957	819,677	6,264	6,252	3,087,579	3,174,422

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.
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, October 2017 and 2016 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	664	604	706	653	181	178	4	3	1,555	1,438
Connecticut	179	164	168	158	35	34	2	1	385	357
Maine	52	53	39	38	25	21	0	0	116	113
Massachusetts	305	259	376	338	81	82	1	1	763	681
New Hampshire	62	60	54	52	20	21	0	0	136	133
Rhode Island	40	41	44	41	9	8	0	0	93	91
Vermont	26	26	24	24	11	12	0	0	61	63
Middle Atlantic	1,505	1,473	1,599	1,599	412	414	35	33	3,552	3,518
New Jersey	280	287	346	364	55	58	2	2	683	712
New York	693	679	945	913	89	83	29	26	1,756	1,701
Pennsylvania	532	506	309	321	268	272	4	5	1,113	1,105
East North Central	1,651	1,648	1,513	1,525	1,071	1,129	3	3	4,238	4,305
Illinois	374	387	375	371	220	241	3	3	972	1,002
Indiana	264	268	203	205	246	272	0	0	713	745
Michigan	368	372	345	351	174	169	0	0	888	892
Ohio	425	406	380	393	273	295	0	0	1,078	1,095
Wisconsin	219	215	209	205	158	151	0	0	586	571
West North Central	827	802	784	774	506	512	0	0	2,118	2,089
Iowa	117	107	90	88	105	99	0	0	312	294
Kansas	120	118	138	138	67	69	0	0	324	324
Minnesota	202	198	193	188	136	135	0	0	532	521
Missouri	243	237	215	210	66	77	0	0	524	525
Nebraska	72	70	65	64	59	63	0	0	195	197
North Dakota	35	36	46	49	56	52	0	0	137	137
South Dakota	39	37	37	36	18	18	0	0	94	92
South Atlantic	3,233	2,977	2,459	2,348	752	746	8	9	6,452	6,080
Delaware	45	48	35	36	12	17	0	0	92	101
District of Columbia	23	22	80	79	1	1	2	3	106	106
Florida	1,279	1,141	800	725	108	107	1	1	2,188	1,973
Georgia	482	455	387	379	148	155	1	1	1,018	990
Maryland	240	242	248	266	26	24	3	3	516	536
North Carolina	436	421	340	336	137	143	0	0	913	900
South Carolina	277	255	182	169	138	134	0	0	597	557
Virginia	367	315	326	299	103	94	2	1	797	710
West Virginia	85	78	62	59	79	71	0	0	225	208
East South Central	950	952	782	811	477	504	0	0	2,209	2,267
Alabama	293	283	218	222	170	168	0	0	681	674
Kentucky	183	187	151	157	126	137	0	0	460	480
Mississippi	167	161	126	127	81	80	0	0	374	369
Tennessee	307	321	287	305	101	118	0	0	694	744
West South Central	1,942	1,915	1,407	1,433	836	847	1	1	4,186	4,197
Arkansas	140	139	88	88	84	81	0	0	312	309
Louisiana	254	257	195	191	165	160	0	0	613	608
Oklahoma	181	181	139	141	72	77	0	0	392	399
Texas	1,368	1,338	985	1,013	515	530	1	1	2,870	2,882
Mountain	851	804	789	775	421	451	1	1	2,062	2,031
Arizona	329	314	273	264	74	81	0	0	675	659
Colorado	166	162	166	171	96	94	1	1	429	428
Idaho	61	56	42	39	34	35	0	0	138	131
Montana	41	38	41	41	19	18	0	0	100	97
Nevada	102	86	79	75	58	77	0	0	240	237
New Mexico	60	59	75	70	38	36	0	0	174	165
Utah	68	67	82	83	42	47	0	1	192	198
Wyoming	24	22	31	31	60	62	0	0	115	115
Pacific Contiguous	1,494	1,375	2,075	1,889	776	622	7	8	4,352	3,894
California	1,098	989	1,740	1,563	620	461	7	8	3,465	3,022
Oregon	145	147	122	123	61	65	0	0	328	335
Washington	251	239	213	203	95	95	0	0	559	537
Pacific Noncontiguous	104	97	115	107	92	88	0	0	310	293
Alaska	35	NM	42	39	18	19	0	0	96	92
Hawaii	68	63	73	68	73	69	0	0	215	201
U.S. Total	13,220	12,648	12,230	11,914	5,524	5,491	60	59	31,034	30,111

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	7,395	7,393	6,661	6,791	1,725	1,838	38	38	15,820	16,060
Connecticut	2,085	2,157	1,661	1,696	348	364	16	17	4,110	4,233
Maine	613	603	408	404	206	214	0	0	1,228	1,221
Massachusetts	3,252	3,164	3,354	3,441	765	843	17	17	7,388	7,465
New Hampshire	698	685	538	544	201	208	0	0	1,438	1,437
Rhode Island	455	490	458	460	89	86	4	4	1,007	1,040
Vermont	292	295	241	246	117	123	0	0	650	663
Middle Atlantic	17,294	17,819	16,547	16,816	4,131	4,257	363	352	38,334	39,244
New Jersey	3,706	3,947	3,946	4,041	600	627	23	22	8,275	8,637
New York	7,473	7,603	9,389	9,391	847	886	294	278	18,003	18,158
Pennsylvania	6,115	6,269	3,211	3,384	2,684	2,745	46	51	12,056	12,449
East North Central	19,567	20,598	15,416	15,547	10,799	11,352	32	33	45,814	47,530
Illinois	4,596	4,879	3,725	3,864	2,213	2,399	27	29	10,561	11,171
Indiana	3,074	3,241	2,050	2,029	2,503	2,699	2	2	7,630	7,972
Michigan	4,247	4,417	3,580	3,481	1,816	1,789	1	0	9,644	9,688
Ohio	5,065	5,505	3,862	4,004	2,682	2,942	2	3	11,611	12,453
Wisconsin	2,585	2,555	2,199	2,169	1,584	1,523	0	0	6,369	6,247
West North Central	10,255	10,246	8,435	8,293	5,394	5,385	4	4	24,087	23,928
Iowa	1,460	1,425	989	954	1,214	1,142	0	0	3,662	3,521
Kansas	1,473	1,517	1,377	1,417	688	716	0	0	3,538	3,651
Minnesota	2,352	2,293	2,062	1,947	1,360	1,309	2	2	5,776	5,552
Missouri	3,214	3,293	2,421	2,430	705	817	2	2	6,341	6,541
Nebraska	909	892	721	690	689	732	0	0	2,319	2,315
North Dakota	401	389	477	477	557	490	0	0	1,435	1,356
South Dakota	447	436	388	376	181	179	0	0	1,016	992
South Atlantic	35,101	35,768	24,680	24,512	7,487	7,612	84	89	67,351	67,981
Delaware	524	547	350	362	136	155	0	0	1,010	1,064
District of Columbia	260	266	782	829	12	15	25	27	1,080	1,136
Florida	12,149	11,684	7,654	7,177	1,087	1,079	6	7	20,896	19,946
Georgia	5,570	5,791	3,927	3,983	1,543	1,593	8	7	11,048	11,374
Maryland	3,032	3,276	2,603	2,741	260	251	33	35	5,928	6,303
North Carolina	5,179	5,490	3,474	3,570	1,388	1,463	0	0	10,041	10,523
South Carolina	3,161	3,320	1,923	1,950	1,376	1,373	0	0	6,460	6,643
Virginia	4,240	4,324	3,363	3,289	938	981	12	12	8,553	8,606
West Virginia	985	1,071	603	612	746	703	0	0	2,335	2,386
East South Central	10,713	10,982	7,925	8,056	4,982	4,857	0	0	23,620	23,895
Alabama	3,252	3,295	2,216	2,224	1,739	1,639	0	0	7,206	7,158
Kentucky	2,203	2,325	1,533	1,610	1,294	1,330	0	0	5,030	5,265
Mississippi	1,696	1,658	1,204	1,173	847	773	0	0	3,747	3,604
Tennessee	3,562	3,705	2,971	3,048	1,104	1,116	0	0	7,637	7,869
West South Central	19,625	19,889	13,550	13,723	8,339	8,152	13	13	41,527	41,777
Arkansas	1,497	1,521	854	851	841	828	0	0	3,192	3,199
Louisiana	2,422	2,469	1,848	1,796	1,567	1,515	1	1	5,838	5,781
Oklahoma	1,996	2,016	1,367	1,350	767	756	0	0	4,130	4,122
Texas	13,710	13,883	9,481	9,726	5,164	5,053	12	12	28,367	28,674
Mountain	10,122	9,666	7,981	7,699	4,532	4,553	12	11	22,647	21,929
Arizona	3,789	3,619	2,712	2,662	749	777	1	1	7,251	7,059
Colorado	1,926	1,908	1,707	1,674	955	920	6	5	4,595	4,508
Idaho	710	652	427	404	517	508	0	0	1,655	1,564
Montana	470	432	426	410	188	187	0	0	1,084	1,029
Nevada	1,350	1,257	762	670	667	718	1	1	2,780	2,645
New Mexico	733	677	782	724	384	369	0	0	1,899	1,771
Utah	886	874	862	861	480	494	5	5	2,233	2,233
Wyoming	257	248	303	294	592	579	0	0	1,152	1,120
Pacific Contiguous	18,657	17,082	19,044	18,128	6,793	6,783	63	66	44,557	42,060
California	14,095	12,923	15,704	14,929	5,243	5,185	60	64	35,102	33,101
Oregon	1,719	1,578	1,224	1,181	613	645	2	2	3,558	3,406
Washington	2,843	2,580	2,116	2,018	938	953	0	0	5,897	5,553
Pacific Noncontiguous	1,002	917	1,127	1,032	878	811	0	0	3,007	2,760
Alaska	360	NM	443	394	190	173	0	0	993	891
Hawaii	643	593	684	637	687	639	0	0	2,015	1,869
U.S. Total	149,730	150,360	121,366	120,596	55,060	55,601	609	605	326,766	327,163

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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, October 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	19.54	18.81	15.40	15.39	12.22	12.07	7.67	7.55	16.34	16.03
Connecticut	21.30	19.95	16.83	15.95	13.48	12.73	10.07	10.03	18.14	17.07
Maine	16.20	16.26	12.25	12.37	8.63	8.50	--	--	12.51	12.72
Massachusetts	19.35	18.82	15.29	15.87	13.54	13.45	5.36	5.30	16.39	16.43
New Hampshire	19.90	18.86	15.17	14.56	12.49	12.27	--	--	16.41	15.71
Rhode Island	19.53	18.87	15.51	14.48	14.82	13.21	17.87	19.08	16.93	16.06
Vermont	17.95	17.82	14.70	14.86	9.76	10.16	--	--	14.44	14.58
Middle Atlantic	16.32	16.12	12.52	12.54	6.86	6.89	11.24	10.63	12.54	12.47
New Jersey	14.70	15.26	11.37	11.70	9.58	9.10	8.48	8.09	12.32	12.57
New York	18.76	18.26	15.03	14.85	6.18	5.95	12.57	11.84	15.07	14.81
Pennsylvania	14.69	14.32	8.95	9.22	6.72	6.86	7.15	7.53	10.01	10.00
East North Central	13.43	13.52	10.06	10.14	6.97	7.04	6.85	7.03	9.92	9.94
Illinois	12.88	13.03	8.97	9.17	6.33	6.67	6.62	6.79	9.17	9.39
Indiana	12.40	12.69	10.32	10.32	7.46	7.42	10.17	10.39	9.65	9.59
Michigan	15.20	15.67	10.82	10.86	7.16	7.00	13.66	11.91	11.03	11.12
Ohio	12.58	12.52	10.19	10.22	6.71	6.93	7.62	8.18	9.65	9.64
Wisconsin	15.09	14.40	10.67	10.63	7.54	7.31	14.38	15.33	10.64	10.41
West North Central	12.00	11.82	9.54	9.28	6.94	6.88	8.18	8.49	9.45	9.25
Iowa	12.08	11.86	8.73	8.59	5.41	5.34	--	--	7.92	7.78
Kansas	13.32	13.25	10.59	10.57	7.52	7.48	--	--	10.50	10.43
Minnesota	13.53	13.11	10.73	9.90	7.73	7.44	9.19	9.75	10.51	9.97
Missouri	10.79	10.76	8.77	8.57	6.67	6.83	7.17	7.20	9.21	9.06
Nebraska	10.95	10.73	8.61	8.54	7.05	7.20	--	--	8.72	8.65
North Dakota	11.07	10.80	9.19	9.29	8.53	8.21	--	--	9.30	9.17
South Dakota	12.43	12.17	9.73	9.77	7.84	7.66	--	--	10.16	10.02
South Atlantic	12.16	11.60	9.63	9.23	6.41	6.43	7.22	7.99	10.08	9.68
Delaware	14.30	15.44	9.94	10.78	7.52	8.38	--	--	11.12	11.93
District of Columbia	13.44	12.93	12.04	12.05	8.21	8.67	7.50	9.37	12.09	12.07
Florida	12.12	10.98	9.87	8.94	7.94	7.82	9.20	8.54	10.92	9.93
Georgia	11.42	11.14	9.90	9.75	5.52	5.76	5.01	4.80	9.40	9.27
Maryland	14.40	15.17	10.65	11.22	8.49	7.77	6.99	8.01	11.90	12.40
North Carolina	11.69	11.63	8.77	8.78	6.20	6.32	8.34	7.77	9.30	9.27
South Carolina	12.73	12.64	10.08	9.94	5.92	6.07	--	--	9.46	9.41
Virginia	12.02	11.17	8.43	7.60	7.01	6.44	8.28	7.71	9.49	8.61
West Virginia	11.96	11.90	9.67	9.61	6.59	6.52	--	--	8.85	8.83
East South Central	11.33	11.24	10.48	10.39	5.88	5.97	--	--	9.22	9.17
Alabama	12.73	12.51	11.64	11.49	6.15	6.31	--	--	9.82	9.81
Kentucky	10.94	11.06	9.66	9.73	5.46	5.72	--	--	8.30	8.44
Mississippi	11.20	10.58	10.27	9.78	6.00	5.97	--	--	9.20	8.84
Tennessee	10.53	10.71	10.26	10.30	5.90	5.84	--	--	9.36	9.32
West South Central	10.91	10.72	8.29	8.34	5.51	5.39	8.05	7.88	8.38	8.26
Arkansas	10.11	9.88	8.31	8.19	5.72	6.09	11.66	10.67	7.97	8.08
Louisiana	9.72	9.52	8.91	8.55	5.60	5.33	9.82	8.34	7.92	7.66
Oklahoma	11.01	11.18	8.11	8.12	5.19	5.20	--	--	8.26	8.26
Texas	11.24	11.02	8.20	8.35	5.49	5.34	7.93	7.85	8.55	8.42
Mountain	12.16	11.78	9.96	9.61	6.39	6.52	9.57	10.04	9.58	9.31
Arizona	12.85	12.10	10.97	10.55	6.54	6.39	10.50	10.35	10.94	10.35
Colorado	12.03	12.10	10.22	9.92	7.37	7.40	8.96	10.41	9.94	9.85
Idaho	10.34	10.24	8.20	7.80	5.99	6.10	--	--	8.20	8.02
Montana	11.42	11.21	10.49	10.32	5.31	5.17	--	--	9.13	8.94
Nevada	12.81	12.04	8.59	7.87	5.90	6.70	9.29	7.91	8.85	8.45
New Mexico	13.01	12.57	10.10	9.89	5.85	5.56	--	--	9.32	9.04
Utah	10.60	10.63	8.76	8.85	5.59	6.22	10.57	9.90	8.26	8.48
Wyoming	11.61	11.50	10.00	9.37	7.10	7.00	--	--	8.45	8.16
Pacific Contiguous	13.56	12.56	14.79	13.87	10.73	8.29	9.34	10.87	13.45	12.11
California	15.37	13.93	16.98	15.78	14.61	10.65	9.34	10.93	15.96	14.12
Oregon	10.97	10.98	9.07	9.05	6.22	6.20	9.49	9.34	8.99	8.94
Washington	9.84	9.52	8.74	8.61	4.73	4.50	9.03	8.88	7.99	7.69
Pacific Noncontiguous	26.37	24.70	23.36	21.69	20.97	19.49	--	--	23.47	21.83
Alaska	22.07	20.73	19.20	17.68	15.76	15.96	--	--	19.32	18.26
Hawaii	29.29	27.54	26.71	24.90	22.86	20.79	--	--	25.95	23.99
U.S. Total	12.84	12.46	10.82	10.55	6.95	6.73	9.57	9.62	10.48	10.15

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 for 2016 are final. Values for 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.
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 October 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD	October 2017 YTD	October 2016 YTD
New England	19.36	18.84	15.32	15.25	12.42	12.20	8.27	8.29	16.48	16.18
Connecticut	20.35	20.13	16.13	15.78	13.30	12.84	10.78	11.14	17.64	17.32
Maine	16.03	15.82	12.18	12.07	9.11	8.92	--	--	13.01	12.77
Massachusetts	19.93	19.01	15.60	15.73	13.62	13.37	6.07	5.91	16.90	16.55
New Hampshire	19.13	18.30	14.72	14.40	12.29	12.31	--	--	16.08	15.60
Rhode Island	18.15	18.68	15.18	14.96	14.53	13.49	19.46	18.69	16.34	16.36
Vermont	17.67	17.33	14.59	14.53	10.09	10.25	--	--	14.56	14.45
Middle Atlantic	16.11	15.71	12.72	12.57	6.91	7.05	11.34	10.96	12.76	12.63
New Jersey	15.72	15.80	12.45	12.38	10.24	10.23	8.95	8.78	13.48	13.49
New York	18.16	17.60	14.97	14.56	5.95	5.99	12.76	12.15	14.95	14.55
Pennsylvania	14.34	13.86	9.01	9.25	6.77	6.94	7.19	7.68	10.17	10.20
East North Central	13.25	13.06	10.10	9.94	7.02	6.92	6.72	6.91	10.08	9.93
Illinois	12.65	12.55	8.91	9.03	6.38	6.55	6.42	6.68	9.33	9.41
Indiana	12.00	11.71	10.29	9.92	7.39	6.90	11.18	9.59	9.61	9.13
Michigan	15.52	15.22	11.02	10.58	7.33	6.89	12.12	11.55	11.40	11.02
Ohio	12.40	12.50	9.99	9.96	6.68	6.98	7.59	7.96	9.70	9.85
Wisconsin	14.75	14.15	11.11	10.82	7.81	7.54	14.27	14.54	11.05	10.71
West North Central	12.22	11.92	9.92	9.63	7.40	7.20	9.17	9.40	9.96	9.69
Iowa	12.78	12.16	9.79	9.34	6.47	6.24	--	--	9.09	8.76
Kansas	13.32	13.13	10.57	10.55	7.55	7.52	--	--	10.66	10.58
Minnesota	13.28	12.73	10.74	9.89	7.84	7.40	9.60	10.11	10.64	10.02
Missouri	11.50	11.36	9.48	9.37	7.15	7.16	8.72	8.61	10.01	9.86
Nebraska	11.11	10.99	9.05	8.87	7.64	7.82	--	--	9.21	9.16
North Dakota	10.63	10.31	9.29	9.20	8.64	7.94	--	--	9.35	8.96
South Dakota	11.75	11.54	9.59	9.60	7.78	7.60	--	--	9.98	9.86
South Atlantic	12.02	11.61	9.48	9.25	6.49	6.47	7.81	7.95	10.07	9.83
Delaware	13.46	13.44	9.98	10.12	7.72	8.20	--	--	11.02	11.15
District of Columbia	12.81	12.28	11.62	11.72	8.27	8.84	9.01	9.51	11.75	11.73
Florida	11.83	10.98	9.59	8.89	7.91	7.68	8.60	8.32	10.64	9.91
Georgia	11.98	11.64	9.99	9.81	5.87	5.85	5.46	5.14	9.85	9.66
Maryland	14.14	14.25	10.76	10.96	8.32	7.89	7.64	7.86	12.05	12.21
North Carolina	11.21	11.11	8.61	8.67	6.19	6.37	8.58	7.79	9.21	9.27
South Carolina	12.85	12.69	10.49	10.27	6.10	6.13	--	--	9.87	9.83
Virginia	11.75	11.43	8.03	7.98	6.68	6.57	7.89	7.75	9.28	9.14
West Virginia	11.67	11.45	9.58	9.32	6.66	6.54	--	--	9.00	8.95
East South Central	11.28	10.81	10.58	10.14	6.00	5.78	--	--	9.34	9.02
Alabama	12.70	11.97	11.63	11.05	6.26	6.02	--	--	9.95	9.56
Kentucky	10.64	10.43	9.69	9.54	5.57	5.64	--	--	8.42	8.39
Mississippi	11.20	10.42	10.27	9.50	6.15	5.75	--	--	9.22	8.64
Tennessee	10.64	10.34	10.49	10.13	6.02	5.64	--	--	9.53	9.18
West South Central	10.81	10.61	8.38	8.24	5.53	5.30	8.28	7.95	8.40	8.23
Arkansas	10.26	9.95	8.46	8.25	5.96	6.09	12.09	10.07	8.23	8.17
Louisiana	9.58	9.33	8.92	8.54	5.44	5.02	9.94	8.95	7.80	7.44
Oklahoma	10.56	10.32	8.05	7.74	5.30	5.02	--	--	8.21	7.92
Texas	11.17	11.00	8.32	8.26	5.52	5.32	8.16	7.87	8.58	8.46
Mountain	11.99	11.72	9.75	9.57	6.59	6.46	9.97	9.72	9.63	9.39
Arizona	12.53	12.26	10.69	10.56	6.55	6.12	9.82	10.07	10.81	10.47
Colorado	12.18	12.08	10.01	9.60	7.34	7.32	9.96	9.73	10.00	9.83
Idaho	10.12	10.03	8.06	7.78	6.81	6.66	--	--	8.31	8.09
Montana	11.13	10.99	10.21	10.20	5.16	5.09	--	--	9.00	8.85
Nevada	11.92	11.39	7.96	8.00	6.32	6.20	8.65	7.91	8.83	8.54
New Mexico	13.01	12.03	10.38	9.78	6.09	5.83	--	--	9.75	9.14
Utah	11.15	11.08	8.87	8.85	6.23	6.47	10.20	9.94	8.79	8.83
Wyoming	11.47	11.19	9.78	9.40	6.94	6.94	--	--	8.31	8.19
Pacific Contiguous	15.14	14.63	13.98	13.43	9.64	9.01	8.66	9.82	13.47	12.83
California	18.17	17.27	16.10	15.27	12.97	12.02	8.64	9.84	16.24	15.30
Oregon	10.73	10.66	8.89	8.90	6.18	6.06	9.34	9.26	8.96	8.79
Washington	9.59	9.50	8.48	8.42	4.66	4.43	8.95	8.87	7.89	7.64
Pacific Noncontiguous	25.93	24.34	23.24	21.24	20.94	19.03	--	--	23.30	21.41
Alaska	21.53	NM	19.54	17.55	16.55	15.07	--	--	19.52	17.84
Hawaii	29.27	27.35	26.49	24.41	22.59	20.48	--	--	25.75	23.67
U.S. Total	12.94	12.57	10.73	10.47	6.94	6.78	9.73	9.68	10.58	10.31

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 for 2016 are final. Values for 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.
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 - October 2017

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,068,719	18,148,290	838,099	83	150,055,191
Year 2015					
January	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
Year 2016					
January	130,327,243	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	131,864,153	18,225,715	808,008	89	150,897,965
February	131,377,352	18,137,089	797,400	89	150,311,930
March	132,759,395	18,322,577	816,055	89	151,898,116
April	131,802,906	18,162,692	803,220	90	150,768,908
May	133,094,840	18,323,970	829,713	90	152,248,613
June	132,811,865	18,339,933	837,430	90	151,989,318
July	132,297,247	18,345,116	831,767	90	151,474,220
August	132,982,288	18,428,021	847,845	90	152,258,244
Sept	132,409,361	18,344,472	826,683	90	151,580,606
October	133,098,368	18,424,450	829,164	85	152,352,067
Rolling 12 Months Ending in October					
2016	130,851,373	18,124,139	838,657	82	149,814,252
2017	132,306,887	18,290,189	823,683	88	151,420,848

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 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: October 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	6,319,702	6,268,697	883,907	871,083	26,772	26,261	6	7	7,230,387	7,166,048
Connecticut	1,497,825	1,489,430	153,426	152,651	4,387	4,405	3	4	1,655,641	1,646,490
Maine	714,969	685,754	100,741	95,945	3,165	2,942	0	0	818,875	784,641
Massachusetts	2,749,050	2,724,471	407,777	399,909	13,990	13,601	2	2	3,170,819	3,137,983
New Hampshire	619,743	615,438	107,583	107,294	3,247	3,267	0	0	730,573	725,999
Rhode Island	423,135	440,966	58,036	59,189	1,760	1,817	1	1	482,932	501,973
Vermont	314,980	312,638	56,344	56,095	223	229	0	0	371,547	368,962
Middle Atlantic	16,069,884	15,968,599	2,311,207	2,287,705	41,963	42,702	20	19	18,423,074	18,299,025
New Jersey	3,547,734	3,510,077	516,855	516,524	11,660	11,868	6	6	4,076,255	4,038,475
New York	7,154,183	7,116,500	1,095,573	1,074,077	7,569	7,564	8	7	8,257,333	8,198,148
Pennsylvania	5,367,967	5,342,022	698,779	697,104	22,734	23,270	6	6	6,089,486	6,062,402
East North Central	20,163,010	19,975,361	2,493,070	2,477,129	53,204	54,878	9	8	22,709,293	22,507,376
Illinois	5,283,260	5,241,940	610,891	607,678	5,726	6,072	3	3	5,899,880	5,855,693
Indiana	2,836,662	2,827,675	351,027	351,476	17,735	18,078	1	1	3,205,425	3,197,230
Michigan	4,376,950	4,324,530	549,702	541,594	NM	6,156	2	1	4,932,614	4,872,281
Ohio	4,963,866	4,916,309	626,621	625,579	18,985	19,011	2	2	5,609,474	5,560,901
Wisconsin	2,702,272	2,664,907	354,829	350,802	NM	5,561	1	1	3,061,900	3,021,271
West North Central	9,487,329	9,364,289	1,457,992	1,436,807	111,652	124,487	3	3	11,056,976	10,925,586
Iowa	1,388,487	1,361,765	243,727	236,816	NM	7,724	0	0	1,638,984	1,606,305
Kansas	1,269,091	1,252,705	235,426	233,576	25,430	23,514	0	0	1,529,947	1,509,795
Minnesota	2,399,110	2,385,566	289,639	293,293	NM	9,001	1	1	2,696,754	2,687,861
Missouri	2,792,340	2,754,446	380,645	377,220	8,378	10,121	2	2	3,181,365	3,141,789
Nebraska	858,387	837,132	161,728	150,700	52,089	61,570	0	0	1,072,204	1,049,402
North Dakota	379,136	379,069	73,442	74,155	7,957	8,702	0	0	460,535	461,926
South Dakota	400,778	393,606	73,385	71,047	NM	3,855	0	0	477,187	468,508
South Atlantic	27,639,768	27,246,867	3,785,364	3,721,746	79,494	82,125	13	13	31,504,639	31,050,751
Delaware	424,649	420,452	54,089	53,621	1,190	871	0	0	479,928	474,944
District of Columbia	268,280	261,266	26,120	25,933	1	1	3	3	294,404	287,203
Florida	9,227,364	9,125,868	1,226,444	1,200,821	20,566	21,199	2	2	10,474,376	10,347,890
Georgia	4,341,879	4,257,051	582,409	569,115	19,446	21,769	1	1	4,943,735	4,847,936
Maryland	2,318,798	2,293,762	252,346	251,157	8,841	8,843	5	5	2,579,990	2,553,767
North Carolina	4,517,437	4,440,423	704,696	675,596	9,908	9,997	1	1	5,232,042	5,126,017
South Carolina	2,270,226	2,218,446	365,515	370,683	4,255	4,049	0	0	2,639,996	2,593,178
Virginia	3,413,160	3,371,342	429,282	431,713	3,763	3,701	1	1	3,846,206	3,806,757
West Virginia	857,975	858,257	144,463	143,107	11,524	11,695	0	0	1,013,962	1,013,059
East South Central	8,417,213	8,276,580	1,395,373	1,387,474	23,597	25,779	0	0	9,836,183	9,689,833
Alabama	2,245,271	2,206,324	370,265	368,031	8,173	7,263	0	0	2,623,709	2,581,618
Kentucky	1,989,470	1,961,261	301,326	303,016	7,676	7,201	0	0	2,298,472	2,271,478
Mississippi	1,310,452	1,281,735	239,519	233,593	6,348	10,150	0	0	1,556,319	1,525,478
Tennessee	2,872,020	2,827,260	484,263	482,834	1,400	1,165	0	0	3,357,683	3,311,259
West South Central	15,985,955	15,770,648	2,249,993	2,214,877	193,532	180,099	6	6	18,429,486	18,165,630
Arkansas	1,387,562	1,372,050	192,077	191,004	39,900	38,600	2	2	1,619,541	1,601,656
Louisiana	2,088,198	2,064,810	292,548	290,157	18,600	19,186	1	1	2,399,347	2,374,154
Oklahoma	1,773,194	1,740,657	284,517	278,822	17,896	19,040	0	0	2,075,607	2,038,519
Texas	10,737,001	10,593,131	1,480,851	1,454,894	117,136	103,273	3	3	12,334,991	12,151,301
Mountain	9,689,096	9,554,312	1,386,686	1,389,462	89,217	96,171	5	5	11,165,004	11,039,950
Arizona	2,760,682	2,730,517	322,787	318,928	6,804	8,189	2	2	3,090,275	3,057,636
Colorado	2,298,695	2,268,539	361,297	369,408	14,207	16,144	1	1	2,674,200	2,654,092
Idaho	731,575	717,983	109,162	107,907	28,420	28,028	0	0	869,157	853,918
Montana	508,237	498,925	109,313	106,369	8,745	10,676	0	0	626,295	615,970
Nevada	1,164,145	1,144,320	163,217	161,751	NM	3,531	1	1	1,330,593	1,309,603
New Mexico	896,871	877,902	138,811	142,074	8,519	9,342	0	0	1,044,201	1,029,318
Utah	1,056,761	1,046,321	123,304	125,534	9,537	9,568	1	1	1,189,603	1,181,424
Wyoming	272,130	269,805	58,795	57,491	9,755	10,693	0	0	340,680	337,989
Pacific Contiguous	18,604,433	18,177,681	2,346,115	2,302,807	207,567	203,738	23	23	21,158,138	20,684,249
California	13,804,668	13,467,834	1,713,653	1,695,324	153,003	149,082	15	15	15,671,339	15,312,255
Oregon	1,744,926	1,711,939	239,425	233,051	26,127	25,633	2	2	2,010,480	1,970,625
Washington	3,054,839	2,997,908	393,037	374,432	28,437	29,023	6	6	3,476,319	3,401,369
Pacific Noncontiguous	721,978	715,865	114,743	114,296	NM	NM	0	0	838,887	832,314
Alaska	288,524	NM	53,662	NM	NM	NM	0	0	343,569	NM
Hawaii	433,454	431,605	61,081	60,917	783	802	0	0	495,318	493,324
U.S. Total	133,098,368	131,318,899	18,424,450	18,203,386	829,164	838,393	85	84	152,352,067	150,360,762

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 for 2016 are final. Values for 2017 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), September 2017 to October 2017

		As of End of September 2017	Activity During October 2017 as Reported to EIA		As of End of October 2017	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... *Onshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*84,139.1*	*244.5*	*0.0*	*84,383.6*	*244.5*	*3,126.3*	*8,906.2*	*637.8*	*6,645.3*	*0.0*	*17.0*	*637.8*	*6,628.3*	*85,021.4*	*91,011.9*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	84,168.4	244.5	0.0	84,412.9	244.5	3,126.3	8,935.5	637.8	6,645.3	0.0	17.0	637.8	6,628.3	85,050.7	91,041.2
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*22,545.1*	*366.4*	*0.5*	*22,911.0*	*365.9*	*2,718.1*	*6,433.8*	*363.9*	*4,230.4*	*0.0*	*0.5*	*363.9*	*4,229.9*	*23,274.9*	*27,140.9*
..... *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	24,303.0	366.4	0.5	24,668.9	365.9	2,718.1	6,433.8	363.9	4,230.4	0.0	0.5	363.9	4,229.9	25,032.8	28,898.8
..... Conventional Hydroelectric	Utility Scale Facilities	80,015.2	4.0	0.0	80,019.2	4.0	106.3	108.3	2.6	228.3	0.0	6.2	2.6	222.1	80,021.8	80,241.3
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*9,016.8*	*0.0*	*0.0*	*9,016.8*	*0.0*	*80.7*	*39.6*	*0.0*	*94.4*	*0.0*	*0.0*	*0.0*	*94.4*	*9,016.8*	*9,111.2*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,108.8*	*4.0*	*0.0*	*2,112.8*	*4.0*	*23.3*	*26.8*	*0.0*	*0.0*	*0.0*	*2.3*	*0.0*	*-2.3*	*2,112.8*	*2,110.5*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,246.8*	*0.0*	*0.0*	*2,246.8*	*0.0*	*-1.6*	*-1.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,246.8*	*2,246.8*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*788.5*	*0.0*	*0.0*	*788.5*	*0.0*	*37.6*	*-4.1*	*0.0*	*57.2*	*0.0*	*0.0*	*0.0*	*57.2*	*788.5*	*845.7*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,160.9	4.0	0.0	14,164.9	4.0	140.0	60.7	0.0	151.6	0.0	2.3	0.0	149.3	14,164.9	14,314.2
..... Geothermal	Utility Scale Facilities	2,456.6	0.0	0.0	2,456.6	0.0	-60.0	-60.0	0.0	37.0	0.0	0.0	0.0	37.0	2,456.6	2,493.6
... Renewable Sources Subtotal	***Utility Scale Facilities***	***205,104.1***	***618.9***	***0.5***	***205,722.5***	***618.4***	***6,030.7***	***15,478.3***	***1,004.3***	***11,292.6***	***0.0***	***26.0***	***1,004.3***	***11,266.6***	***206,726.8***	***216,989.1***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*245,086.9*	*40.0*	*0.0*	*245,126.9*	*40.0*	*6,644.8*	*6,824.2*	*365.0*	*15,562.1*	*0.0*	*0.0*	*365.0*	*15,562.1*	*245,491.9*	*260,689.0*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,860.3*	*200.2*	*0.5*	*127,060.0*	*199.7*	*502.3*	*1,241.3*	*74.0*	*3,513.2*	*0.0*	*186.3*	*74.0*	*3,326.9*	*127,134.0*	*130,386.9*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*75,357.5*	*0.0*	*2.0*	*75,355.5*	*-2.0*	*-2,207.5*	*-4,242.9*	*0.0*	*0.0*	*98.4*	*1,902.4*	*-98.4*	*-1,902.4*	*75,257.1*	*73,453.1*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,305.0*	*0.0*	*0.0*	*4,305.0*	*0.0*	*316.0*	*537.8*	*10.0*	*167.2*	*0.9*	*0.9*	*9.1*	*166.3*	*4,314.1*	*4,471.3*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*121.8*	*0.0*	*0.0*	*121.8*	*0.0*	*0.4*	*4.0*	*3.7*	*5.1*	*0.0*	*0.0*	*3.7*	*5.1*	*125.5*	*126.9*
..... Natural Gas Subtotal	Utility Scale Facilities	451,841.5	240.2	2.5	452,079.2	237.7	5,256.0	4,364.4	452.7	19,247.6	99.3	2,089.6	353.4	17,158.0	452,432.6	469,237.2
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*261,953.4*	*0.0*	*0.0*	*261,953.4*	*0.0*	*-3,851.5*	*-4,650.5*	*0.0*	*0.0*	*0.0*	*12,223.0*	*0.0*	*-12,223.0*	*261,953.4*	*249,730.4*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	262,768.4	0.0	0.0	262,768.4	0.0	-3,851.5	-4,650.5	0.0	0.0	0.0	12,223.0	0.0	-12,223.0	262,768.4	250,545.4
..... Petroleum Coke	Utility Scale Facilities	1,466.7	0.0	0.0	1,466.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,466.7	1,466.7
..... Petroleum Liquids	Utility Scale Facilities	32,280.1	8.1	0.6	32,287.6	7.5	-628.1	-1,221.8	6.3	23.2	53.8	180.3	-47.5	-157.1	32,240.1	32,130.5
..... Other Gases	Utility Scale Facilities	2,456.9	0.0	0.0	2,456.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,456.9	2,456.9
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***750,813.6***	***248.3***	***3.1***	***751,058.8***	***245.2***	***776.4***	***-1,507.9***	***459.0***	***19,270.8***	***153.1***	***14,492.9***	***305.9***	***4,777.9***	***751,364.7***	***755,836.7***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,808.7	0.0	0.0	22,808.7	0.0	30.0	30.0	0.0	57.0	0.0	0.0	0.0	57.0	22,808.7	22,865.7
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	690.8	2.0	0.0	692.8	2.0	133.7	212.7	2.5	71.3	0.0	0.0	2.5	71.3	695.3	764.1
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,541.5***	***2.0***	***0.0***	***23,543.5***	***2.0***	***163.7***	***242.7***	***2.5***	***128.3***	***0.0***	***0.0***	***2.5***	***128.3***	***23,546.0***	***23,671.8***
... Nuclear	***Utility Scale Facilities***	***99,581.8***	***0.0***	***0.0***	***99,581.8***	***0.0***	***17.0***	***17.0***	***0.0***	***22.0***	***0.0***	***0.0***	***0.0***	***22.0***	***99,581.8***	***99,603.8***
... All Other	***Utility Scale Facilities***	***1,414.0***	***0.0***	***0.0***	***1,414.0***	***0.0***	***0.0***	***0.0***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,414.0***	***1,468.8***
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,455.0**	**869.2**	**3.6**	**1,081,320.6**	**865.6**	**6,987.8**	**14,230.1**	**1,465.8**	**30,768.5**	**153.1**	**14,518.9**	**1,312.7**	**16,249.6**	**1,082,633.3**	**1,097,570.2**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*15,332.7*			*15,609.4*	*276.7*	*2,844.3*	*3,453.0*								
..... Estimated Total Solar Photovoltaic	All Facilities	37,877.8			38,520.4	642.6	5,562.4	9,886.8								
... Estimated Total Solar	***All Facilities***	***39,635.7***			***40,278.3***	***642.6***	***5,562.4***	***9,886.8***								

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 - October 2017

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	20,192.9	12,765.1	32,958.0
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
Year 2016			
January	12,470.5	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	20,437.7	12,906.9	33,344.6
February	20,624.2	13,448.6	34,072.8
March	20,955.7	13,728.4	34,684.1
April	21,460.0	13,981.9	35,441.9
May	21,849.6	14,270.3	36,119.9
June	22,069.1	14,549.5	36,618.6
July	22,172.0	14,815.8	36,987.8
August	22,346.1	15,108.1	37,454.2
Sept	22,545.1	15,332.7	37,877.8
October	22,911.0	15,609.4	38,520.4

Values for 2016 are final. Values for 2017 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 - October 2017

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,527.0	4,022.8	1,215.3	12,765.1
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,428.5	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	7,640.7	4,044.9	1,221.3	12,906.9
February	7,965.1	4,206.2	1,277.2	13,448.6
March	8,130.4	4,292.5	1,305.4	13,728.4
April	8,282.5	4,381.5	1,317.9	13,981.9
May	8,463.7	4,465.0	1,341.6	14,270.3
June	8,619.3	4,561.5	1,368.7	14,549.5
July	8,777.4	4,644.0	1,394.5	14,815.8
August	8,956.6	4,738.2	1,413.3	15,108.1
Sept	9,096.7	4,799.5	1,436.5	15,332.7
October	9,253.9	4,912.3	1,443.3	15,609.4

Values for 2016 are final. Values for 2017 are preliminary.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	5,589.5	5,158.2	21,299.8	22,671.1	1,797.4	1,797.4	22.3	2.0	4,015.9	4,015.9	48.0	48.0	32,772.9	33,692.6
Connecticut	358.0	342.0	6,339.7	6,311.4	29.4	29.4	1.6	0.0	2,087.8	2,087.8	26.0	26.0	8,842.5	8,796.6
Maine	2,419.7	2,189.0	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,900.4	4,653.5
Massachusetts	1,188.5	1,059.2	8,351.2	9,765.7	1,768.0	1,768.0	2.5	0.0	677.2	677.2	0.0	0.0	11,987.4	13,270.1
New Hampshire	928.9	928.9	2,262.9	2,266.0	0.0	0.0	0.0	0.0	1,250.9	1,250.9	0.0	0.0	4,442.7	4,445.8
Rhode Island	104.8	70.8	1,805.6	1,787.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,910.4	1,858.4
Vermont	589.6	568.3	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	689.5	668.2
Middle Atlantic	10,963.9	10,821.7	68,276.0	69,344.0	3,409.1	3,409.1	71.4	70.4	19,304.3	19,304.3	11.2	11.2	102,035.9	102,960.7
New Jersey	890.6	834.4	12,323.9	13,515.1	420.0	420.0	1.0	0.0	4,107.9	4,107.9	11.2	11.2	17,754.6	18,888.6
New York	7,190.8	7,125.3	26,133.3	26,102.6	1,406.1	1,406.1	20.0	20.0	5,399.4	5,399.4	0.0	0.0	40,149.6	40,053.4
Pennsylvania	2,882.5	2,862.0	29,818.8	29,726.3	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	0.0	0.0	44,131.7	44,018.7
East North Central	11,031.1	10,211.2	114,033.5	113,433.6	2,133.0	2,103.0	187.4	187.4	19,019.3	19,019.3	110.1	110.1	146,514.4	145,064.6
Illinois	4,172.4	3,974.6	28,972.0	28,928.6	0.0	0.0	112.4	112.4	11,587.3	11,587.3	0.0	0.0	44,844.1	44,602.9
Indiana	2,308.8	2,181.6	23,121.0	23,353.4	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,540.8	25,646.0
Michigan	2,469.8	2,216.2	20,781.1	20,818.7	2,133.0	2,103.0	0.0	0.0	4,105.4	4,105.4	0.0	0.0	29,489.3	29,243.3
Ohio	856.2	724.7	26,659.6	25,810.5	0.0	0.0	53.0	53.0	2,134.0	2,134.0	0.0	0.0	29,702.8	28,722.2
Wisconsin	1,223.9	1,114.1	14,499.8	14,522.4	0.0	0.0	0.0	0.0	1,192.6	1,192.6	21.1	21.1	16,937.4	16,850.2
West North Central	25,616.7	21,952.2	60,920.6	60,532.5	657.0	657.0	2.0	2.0	5,394.9	5,394.9	24.5	24.5	92,615.7	88,563.1
Iowa	6,971.6	6,503.6	9,956.3	9,507.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,529.3	16,612.5
Kansas	5,136.4	3,863.9	9,771.1	9,698.0	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	16,083.3	14,737.7
Minnesota	4,606.4	3,984.3	10,087.6	10,035.8	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	16,370.4	15,696.5
Missouri	1,250.2	1,043.6	18,578.4	18,767.4	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,676.6	21,659.0
Nebraska	1,622.5	1,123.5	6,215.5	6,215.5	0.0	0.0	0.0	0.0	771.5	771.5	0.0	0.0	8,609.5	8,110.5
North Dakota	3,592.8	2,744.5	4,624.6	4,621.2	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,371.0
South Dakota	2,436.8	2,688.8	1,687.1	1,687.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,375.9
South Atlantic	17,431.2	15,497.6	159,848.0	158,704.3	7,905.2	7,905.2	80.5	77.5	24,598.6	24,598.6	446.7	446.7	210,310.2	207,229.9
Delaware	46.4	44.9	3,329.5	3,364.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	3,408.9
District of Columbia	12.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
Florida	1,736.2	1,434.8	53,297.9	53,393.5	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	58,954.8	58,749.0
Georgia	3,965.6	3,704.5	26,968.8	26,973.2	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,902.6	36,645.9
Maryland	1,071.4	1,058.7	10,287.3	9,553.5	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,079.5	12,331.0
North Carolina	5,714.0	4,577.2	21,646.9	21,824.9	86.0	86.0	1.0	0.0	5,113.6	5,113.6	54.0	54.0	32,615.5	31,655.7
South Carolina	1,954.5	1,894.9	11,422.3	11,472.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	22,669.0	22,659.4
Virginia	1,895.3	1,837.8	18,723.0	17,950.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,427.3	26,597.4
West Virginia	1,035.8	932.8	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,264.6	15,161.6
East South Central	8,631.7	8,101.6	65,687.2	65,821.4	1,616.3	1,616.3	0.0	0.0	10,984.1	10,984.1	1.4	1.4	86,920.7	86,524.8
Alabama	4,091.7	3,789.2	20,227.7	20,227.7	0.0	0.0	0.0	0.0	5,060.4	5,060.4	0.0	0.0	29,379.8	29,077.3
Kentucky	1,226.5	1,148.6	18,874.3	19,004.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,100.8	20,152.9
Mississippi	383.3	274.7	14,278.0	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	16,063.7	15,955.1
Tennessee	2,930.2	2,889.1	12,307.2	12,311.4	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,376.4	21,339.5
West South Central	33,568.5	29,115.8	144,222.4	142,102.3	286.0	286.0	71.0	41.0	8,910.7	8,910.7	512.9	512.9	187,571.5	180,968.7
Arkansas	1,620.1	1,620.1	11,245.2	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,711.1	14,711.1
Louisiana	615.7	615.7	21,019.6	21,266.0	0.0	0.0	0.0	0.0	2,132.9	2,132.9	288.9	288.9	24,057.1	24,303.5
Oklahoma	7,683.5	6,390.9	18,347.7	18,175.5	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,289.2	24,824.4
Texas	23,649.2	20,489.1	93,609.9	91,415.6	0.0	0.0	71.0	41.0	4,960.0	4,960.0	224.0	224.0	122,514.1	117,129.7
Mountain	25,625.7	23,954.4	63,213.1	63,869.3	778.8	778.8	43.6	2.6	3,937.0	3,937.0	126.3	126.3	93,724.5	92,668.4
Arizona	5,015.3	4,592.8	19,407.3	19,407.3	216.3	216.3	40.0	0.0	3,937.0	3,937.0	0.0	0.0	28,615.9	28,153.4
Colorado	4,173.9	4,047.1	11,161.2	11,355.0	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,907.9	15,973.9
Idaho	4,013.3	3,813.3	1,148.1	1,158.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,176.2	4,986.6
Montana	3,446.3	3,429.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,230.7	6,213.7
Nevada	3,534.0	3,199.4	7,791.6	8,248.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,332.1	11,454.5
New Mexico	2,061.0	1,649.3	6,828.3	6,828.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,891.9	8,480.2
Utah	1,587.5	1,428.8	7,348.2	7,343.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,975.9	8,812.2
Wyoming	1,794.4	1,794.4	6,788.0	6,788.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,593.9	8,593.9
Pacific Contiguous	66,136.1	64,314.9	49,341.7	51,928.7	4,225.9	4,225.9	172.1	65.7	3,417.0	3,400.0	106.3	106.3	123,399.1	124,041.5
California	29,220.2	27,582.3	40,267.8	42,866.9	3,911.9	3,911.9	159.5	55.5	2,240.0	2,240.0	106.3	106.3	75,905.7	76,762.9
Oregon	12,117.2	11,958.9	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,440.3	16,282.0
Washington	24,798.7	24,773.7	4,755.8	4,743.7	314.0	314.0	7.6	5.2	1,177.0	1,160.0	0.0	0.0	31,053.1	30,996.6
Pacific Noncontiguous	1,128.1	1,116.6	4,216.5	4,159.5	0.0	0.0	84.5	73.5	0.0	0.0	26.6	26.6	5,455.7	5,376.2
Alaska	538.0	538.0	2,159.3	2,102.3	0.0	0.0	45.0	45.0	0.0	0.0	0.0	0.0	2,742.3	2,685.3
Hawaii	590.1	578.6	2,057.2	2,057.2	0.0	0.0	39.5	28.5	0.0	0.0	26.6	26.6	2,713.4	2,690.9
U.S. Total	205,722.5	190,244.2	751,058.8	752,566.7	22,808.7	22,778.7	734.8	522.1	99,581.8	99,564.8	1,414.0	1,414.0	1,081,320.6	1,067,090.5

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 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, October 2017 and 2016 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	1,347.9	1,072.6	659.1	483.7	0.0	0.0	1,957.4	1,957.4	1,625.1	1,644.5	0.0	0.0	5,589.5	5,158.2	1,694.8	1,324.5	2,353.9	1,808.2	2,353.9	1,808.2
Connecticut	1.1	1.1	31.2	15.2	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	358.0	342.0	315.3	251.3	346.5	266.5	346.5	266.5
Maine	898.8	652.7	5.6	0.0	0.0	0.0	732.4	732.4	782.9	803.9	0.0	0.0	2,419.7	2,189.0	31.1	21.5	36.7	21.5	36.7	21.5
Massachusetts	92.9	94.5	546.4	415.5	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,188.5	1,059.2	1,152.3	927.7	1,698.7	1,343.2	1,698.7	1,343.2
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	67.7	45.2	67.7	45.2	67.7	45.2
Rhode Island	51.8	21.0	10.2	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	104.8	70.8	41.2	20.9	51.4	31.1	51.4	31.1
Vermont	120.2	120.2	65.7	42.8	0.0	0.0	329.4	329.4	74.3	75.9	0.0	0.0	589.6	568.3	87.2	58.0	152.9	100.8	152.9	100.8
Middle Atlantic	3,204.1	3,088.1	817.4	736.3	0.0	0.0	5,630.7	5,630.7	1,311.7	1,366.6	0.0	0.0	10,963.9	10,821.7	2,447.3	1,904.8	3,264.7	2,641.1	3,264.7	2,641.1
New Jersey	7.6	7.6	643.4	587.2	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	890.6	834.4	1,234.1	1,009.9	1,877.5	1,597.1	1,877.5	1,597.1
New York	1,824.7	1,747.0	123.2	98.3	0.0	0.0	4,718.8	4,718.8	524.1	561.2	0.0	0.0	7,190.8	7,125.3	942.8	691.0	1,066.0	789.3	1,066.0	789.3
Pennsylvania	1,371.8	1,333.5	50.8	50.8	0.0	0.0	899.6	899.6	560.3	578.1	0.0	0.0	2,882.5	2,862.0	270.4	203.9	321.2	254.7	321.2	254.7
East North Central	8,525.2	7,838.9	353.6	244.7	0.0	0.0	853.1	853.1	1,299.2	1,274.5	0.0	0.0	11,031.1	10,211.2	271.1	178.8	624.7	423.5	624.7	423.5
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	121.7	107.9	0.0	0.0	4,172.4	3,974.6	45.7	25.8	78.5	58.6	78.5	58.6
Indiana	1,989.7	1,889.7	175.9	155.1	0.0	0.0	60.4	60.4	82.8	76.4	0.0	0.0	2,308.8	2,181.6	26.3	11.9	202.2	167.0	202.2	167.0
Michigan	1,583.8	1,384.8	62.5	7.9	0.0	0.0	263.0	263.0	560.5	560.5	0.0	0.0	2,469.8	2,216.2	61.7	39.6	124.2	47.5	124.2	47.5
Ohio	538.4	433.1	67.5	45.8	0.0	0.0	101.9	101.9	148.4	143.9	0.0	0.0	856.2	724.7	96.8	76.0	164.3	121.8	164.3	121.8
Wisconsin	429.5	331.5	14.9	3.1	0.0	0.0	393.7	393.7	385.8	385.8	0.0	0.0	1,223.9	1,114.1	40.6	25.5	55.5	28.6	55.5	28.6
West North Central	21,306.8	18,073.0	467.4	36.7	0.0	0.0	3,289.4	3,289.4	553.1	553.1	0.0	0.0	25,616.7	21,952.2	251.6	183.3	719.0	220.0	719.0	220.0
Iowa	6,798.9	6,337.3	6.4	0.0	0.0	0.0	144.9	144.9	21.4	21.4	0.0	0.0	6,971.6	6,503.6	64.6	41.1	71.0	41.1	71.0	41.1
Kansas	5,117.2	3,846.7	3.2	1.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,136.4	3,863.9	10.9	5.5	14.1	6.7	14.1	6.7
Minnesota	3,506.5	3,290.1	413.3	7.6	0.0	0.0	205.9	205.9	480.7	480.7	0.0	0.0	4,606.4	3,984.3	42.7	27.9	456.0	35.5	456.0	35.5
Missouri	654.3	458.5	33.7	22.9	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,250.2	1,043.6	129.0	106.3	162.7	129.2	162.7	129.2
Nebraska	1,319.1	927.9	9.8	4.0	0.0	0.0	277.9	175.9	15.7	15.7	0.0	0.0	1,622.5	1,123.5	3.6	1.8	13.4	5.8	13.4	5.8
North Dakota	3,073.0	2,224.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	2,744.5	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	987.8	1.0	1.0	0.0	0.0	1,598.0	1,700.0	0.0	0.0	0.0	0.0	2,436.8	2,688.8	0.5	0.5	1.5	1.5	1.5	1.5
South Atlantic	1,086.3	775.3	4,682.5	2,902.4	0.0	0.0	7,270.8	7,498.7	4,391.6	4,321.2	0.0	0.0	17,431.2	15,497.6	1,324.9	941.0	6,007.4	3,843.4	6,007.4	3,843.4
Delaware	2.0	2.0	32.2	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.4	44.9	67.2	49.0	99.4	79.7	99.4	79.7
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	12.0	12.0	37.5	24.5	37.5	24.5	37.5	24.5
Florida	0.0	0.0	391.5	98.5	0.0	0.0	54.5	54.5	1,290.2	1,281.8	0.0	0.0	1,736.2	1,434.8	184.0	126.3	575.5	224.8	575.5	224.8
Georgia	0.0	0.0	970.5	536.5	0.0	0.0	2,047.2	2,275.1	947.9	892.9	0.0	0.0	3,965.6	3,704.5	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	149.4	136.7	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,071.4	1,058.7	604.8	452.4	754.2	589.1	754.2	589.1
North Carolina	208.0	0.0	2,939.9	2,016.3	0.0	0.0	2,002.0	2,002.0	564.1	558.9	0.0	0.0	5,714.0	4,577.2	124.6	105.9	3,064.5	2,122.2	3,064.5	2,122.2
South Carolina	0.0	0.0	62.1	2.5	0.0	0.0	1,361.6	1,361.6	530.8	530.8	0.0	0.0	1,954.5	1,894.9	112.7	36.7	174.8	39.2	174.8	39.2
Virginia	0.0	0.0	136.9	81.2	0.0	0.0	866.0	866.0	892.4	890.6	0.0	0.0	1,895.3	1,837.8	44.5	27.9	181.4	109.1	181.4	109.1
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	349.5	349.5	0.0	0.0	0.0	0.0	1,035.8	932.8	5.7	4.0	5.7	4.0	5.7	4.0
East South Central	29.1	29.1	297.9	130.2	0.0	0.0	7,033.1	6,727.3	1,271.6	1,215.0	0.0	0.0	8,631.7	8,101.6	83.3	74.9	381.2	205.1	381.2	205.1
Alabama	0.0	0.0	93.0	75.0	0.0	0.0	3,270.2	3,042.3	728.5	671.9	0.0	0.0	4,091.7	3,789.2	NM	4.6	NM	79.6	NM	79.6
Kentucky	0.0	0.0	10.0	10.0	0.0	0.0	1,144.3	1,066.4	72.2	72.2	0.0	0.0	1,226.5	1,148.6	17.6	13.2	27.6	23.2	27.6	23.2
Mississippi	0.0	0.0	108.6	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	383.3	274.7	6.5	4.0	115.1	4.0	115.1	4.0
Tennessee	29.1	29.1	86.3	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,930.2	2,889.1	54.2	53.1	140.5	98.3	140.5	98.3
West South Central	28,269.1	24,422.9	1,040.3	434.4	0.0	0.0	2,990.3	2,988.3	1,268.8	1,270.2	0.0	0.0	33,568.5	29,115.8	579.3	378.4	1,619.6	812.8	1,619.6	812.8
Arkansas	0.0	0.0	13.0	13.0	0.0	0.0	1,266.7	1,266.7	340.4	340.4	0.0	0.0	1,620.1	1,620.1	7.2	4.6	20.2	17.6	20.2	17.6
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	423.7	423.7	0.0	0.0	615.7	615.7	124.9	117.0	124.9	117.0	124.9	117.0
Oklahoma	6,743.2	5,451.2	2.5	2.5	0.0	0.0	861.6	859.6	76.2	77.6	0.0	0.0	7,683.5	6,390.9	3.8	2.4	6.3	4.9	6.3	4.9
Texas	21,525.9	18,971.7	1,024.8	418.9	0.0	0.0	670.0	670.0	428.5	428.5	0.0	0.0	23,649.2	20,489.1	443.4	254.5	1,468.2	673.4	1,468.2	673.4
Mountain	8,434.4	8,019.4	5,435.8	4,180.3	473.9	473.9	10,562.8	10,560.4	174.5	176.1	544.3	544.3	25,625.7	23,954.4	1,814.5	1,539.2	7,250.3	5,719.5	7,724.2	6,193.4
Arizona	267.3	267.3	1,701.0	1,278.5	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,015.3	4,592.8	962.7	849.4	2,663.7	2,127.9	2,959.1	2,423.3
Colorado	3,026.1	2,965.3	431.7	368.1	0.0	0.0	687.4	685.0	28.7	28.7	0.0	0.0	4,173.9	4,047.1	320.9	275.6	752.6	643.7	752.6	643.7
Idaho	970.5	970.5	240.0	40.0	0.0	0.0	2,708.9	2,708.9	83.9	83.9	10.0	10.0	4,013.3	3,813.3	11.7	6.7	251.7	46.7	251.7	46.7
Montana	678.5	678.5	17.0	0.0	0.0	0.0	2,747.8	2,747.8	3.0	3.0	0.0	0.0	3,446.3	3,429.3	10.5	7.7	27.5	7.7	27.5	7.7
Nevada	150.0	150.0	1,684.6	1,350.0	178.5	178.5	1,051.4	1,051.4	9.8	9.8	459.7	459.7	3,534.0	3,199.4	214.8	207.8	1,899.4	1,557.8	2,077.9	1,736.3
New Mexico	1,466.5	1,112.3	504.4	446.9	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,061.0	1,649.3	111.5	84.4	615.9	531.3	615.9	531.3
Utah	388.2	388.2	857.1	696.8	0.0	0.0	256.4	256.4	12.8	14.4	73.0	73.0	1,587.5	1,428.8	179.3	105.5	1,036.4	802.3	1,036.4	802.3
Wyoming	1,487.3	1,487.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,794.4	3.1	2.2	3.1	2.2	3.1	2.2
Pacific Contiguous	11,943.8	11,891.9	9,058.7	7,277.8	1,284.0	1,284.0	39,935.3	39,909.3	2,045.0	2,022.6	1,869.3	1,929.3	66,136.1	64,314.9	6,575.2	5,177.3	15,633.9	12,455.1	16,917.9	13,739.1
California	5,660.5	5,658.6	8,902.3	7,229.7	1,284.0	1,284.0	10,197.7	10,190.4	1,325.9	1,309.8	1,849.8	1,909.8	29,220.2	27,582.3	6,347.7	4,990.0	15,250.0	12,219.7	16,534.0	13,503.7
Oregon	3,210.2	3,160.2	155.9	47.6	0.0	0.0	8,423.2	8,423.2	308.4	308.4	19.5	19.5	12,117.2	11,958.9	132.4	113.5	288.3	161.1	288.3	161.1
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.4	21,295.7	410.7	404.4	0.0	0.0	24,798.7	24,773.7	95.0	73.8	95.5	74.3	95.5	74.3
Pacific Noncontiguous	266.2	266.2	98.3	50.7	0.0	0.0	496.3	496.3	224.3	260.4	43.0	43.0	1,128.1	1,116.6	567.3	454.1	665.6	504.8	665.6	504.8
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.4	470.4	7.0	7.0	0.0	0.0	538.0	538.0	2.0	1.3	2.0	1.3	2.0	1.3
Hawaii	205.6	205.6	98.3	50.7	0.0	0.0	25.9	25.9	217.3	253.4	43.0	43.0	590.1	578.6	565.3	452.8	663.6	503.5	663.6	503.5
U.S. Total	84,412.9	75,477.4	22,911.0	16,477.2	1,757.9	1,757.9	80,019.2	79,910.9	14,164.9	14,104.2	2,456.6	2,516.6	205,722.5	190,244.2	15,609.4	12,156.4	38,520.4	28,633.6	40,278.3	30,391.5

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 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, October 2017 and 2016 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016	October 2017	October 2016
New England	12,076.6	11,988.8	1,099.0	1,086.2	1,051.7	1,047.5	917.3	1,955.3	0.0	0.0	6,155.2	6,593.3	0.0	0.0	21,299.8	22,671.1
Connecticut	2,581.4	2,555.3	467.3	467.3	424.6	422.4	383.4	383.4	0.0	0.0	2,483.0	2,483.0	0.0	0.0	6,339.7	6,311.4
Maine	1,250.0	1,250.0	297.1	297.1	14.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,442.5	2,442.5
Massachusetts	5,237.0	5,193.3	330.8	318.0	200.0	198.0	0.0	1,038.0	0.0	0.0	2,583.4	3,018.4	0.0	0.0	8,351.2	9,765.7
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	1,777.2	1,759.2	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	16.0	16.0	0.0	0.0	1,805.6	1,787.6
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	97.9	0.0	0.0	97.9	97.9
Middle Atlantic	26,351.1	26,274.0	7,711.4	7,716.4	13,657.8	14,070.3	14,982.2	15,721.7	78.6	78.6	5,369.7	5,357.8	125.2	125.2	68,276.0	69,344.0
New Jersey	8,103.2	8,103.2	2,857.3	2,857.3	493.2	1,052.4	613.0	1,245.0	11.6	11.6	222.2	222.2	23.4	23.4	12,323.9	13,515.1
New York	8,128.7	8,102.1	3,174.6	3,179.6	9,653.5	9,548.8	1,639.9	1,747.4	0.0	0.0	3,536.6	3,524.7	0.0	0.0	26,133.3	26,102.6
Pennsylvania	10,119.2	10,068.7	1,679.5	1,679.5	3,511.1	3,469.1	12,729.3	12,729.3	67.0	67.0	1,610.9	1,610.9	101.8	101.8	29,818.8	29,726.3
East North Central	18,058.2	17,080.1	26,442.9	26,295.1	3,951.9	4,126.3	61,501.4	61,832.4	247.6	247.6	2,665.6	2,686.2	1,165.9	1,165.9	114,033.5	113,433.6
Illinois	3,566.3	3,562.9	10,302.2	10,260.2	288.9	290.9	14,015.1	14,015.1	0.0	0.0	685.0	685.0	114.5	114.5	28,972.0	28,928.6
Indiana	2,406.0	2,406.0	3,363.2	3,266.6	725.9	725.9	15,773.8	16,094.8	0.0	0.0	237.8	245.8	614.3	614.3	23,121.0	23,353.4
Michigan	4,421.6	4,294.5	3,964.9	3,955.7	2,184.8	2,358.7	9,414.2	9,414.2	47.2	47.2	498.4	498.4	250.0	250.0	20,781.1	20,818.7
Ohio	4,922.4	4,074.8	5,431.7	5,431.7	154.8	153.3	15,181.6	15,181.6	142.0	142.0	640.0	640.0	187.1	187.1	26,659.6	25,810.5
Wisconsin	2,741.9	2,741.9	3,380.9	3,380.9	597.5	597.5	7,116.7	7,126.7	58.4	58.4	604.4	617.0	0.0	0.0	14,499.8	14,522.4
West North Central	6,641.9	5,988.3	11,537.0	11,341.1	4,200.2	4,155.0	34,593.2	34,955.4	32.0	32.0	3,907.9	4,052.3	8.4	8.4	60,920.6	60,532.5
Iowa	1,774.7	1,121.1	1,256.2	1,140.3	498.1	670.4	5,548.8	5,548.8	32.0	32.0	846.5	994.9	0.0	0.0	9,956.3	9,507.5
Kansas	266.0	266.0	2,169.0	2,169.0	2,113.6	2,057.5	4,683.2	4,672.2	0.0	0.0	539.3	533.3	0.0	0.0	9,771.1	9,698.0
Minnesota	2,172.0	2,172.0	2,437.9	2,437.9	375.1	322.3	4,308.5	4,308.5	0.0	0.0	794.1	795.1	0.0	0.0	10,087.6	10,035.8
Missouri	1,796.6	1,796.6	3,420.5	3,420.5	501.0	504.0	11,726.1	11,912.1	0.0	0.0	1,134.2	1,134.2	0.0	0.0	18,578.4	18,767.4
Nebraska	342.6	342.6	1,150.8	1,150.8	592.1	592.1	3,817.3	3,817.3	0.0	0.0	312.7	312.7	0.0	0.0	6,215.5	6,215.5
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,222.5	0.0	0.0	61.3	62.3	8.4	8.4	4,624.6	4,621.2
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	219.8	219.8	0.0	0.0	1,687.1	1,687.1
South Atlantic	52,648.3	50,670.3	32,450.9	31,963.7	7,245.3	7,400.4	56,870.7	57,329.7	83.8	83.8	10,414.0	11,121.4	135.0	135.0	159,848.0	158,704.3
Delaware	1,512.0	1,512.0	315.2	315.2	843.2	877.7	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	3,364.0
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,444.7	26,966.7	8,521.5	8,130.5	2,476.7	2,597.3	9,881.0	10,131.0	0.0	0.0	4,974.0	5,568.0	0.0	0.0	53,297.9	53,393.5
Georgia	7,957.7	7,957.7	7,823.8	7,823.8	796.4	796.4	9,360.5	9,360.5	83.8	83.8	946.6	951.0	0.0	0.0	26,968.8	26,973.2
Maryland	976.0	250.0	1,966.2	1,960.0	1,414.2	1,414.2	4,712.0	4,712.0	0.0	0.0	1,218.9	1,217.3	0.0	0.0	10,287.3	9,553.5
North Carolina	4,724.8	4,724.8	6,047.7	5,957.7	0.0	0.0	10,536.8	10,745.8	0.0	0.0	337.6	396.6	0.0	0.0	21,646.9	21,824.9
South Carolina	2,399.0	2,399.0	2,801.9	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	513.4	0.0	0.0	11,422.3	11,472.3
Virginia	7,634.1	6,860.1	3,894.3	3,894.3	1,045.8	1,045.8	3,800.4	3,800.4	0.0	0.0	2,348.4	2,350.0	0.0	0.0	18,723.0	17,950.6
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	123.0	12,958.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	20,197.9	19,097.9	13,008.2	13,002.4	5,338.8	5,338.8	26,980.5	28,210.5	0.0	0.0	142.0	152.0	19.8	19.8	65,687.2	65,821.4
Alabama	9,441.4	9,441.4	2,532.2	2,532.2	1,908.3	1,908.3	6,283.4	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,227.7	20,227.7
Kentucky	1,763.0	663.0	4,976.6	4,976.6	260.0	260.0	11,862.8	13,092.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	19,004.3
Mississippi	7,590.5	7,590.5	1,718.9	1,718.9	3,104.3	3,104.3	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,278.0	14,278.0
Tennessee	1,403.0	1,403.0	3,780.5	3,774.7	66.2	66.2	7,014.3	7,014.3	0.0	0.0	43.2	53.2	0.0	0.0	12,307.2	12,311.4
West South Central	60,192.2	58,389.5	13,761.5	13,425.8	32,052.7	32,071.0	36,423.7	36,423.7	955.7	955.7	181.3	181.3	655.3	655.3	144,222.4	142,102.3
Arkansas	4,620.5	4,620.5	702.8	702.8	793.7	793.7	5,116.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,245.2	11,245.2
Louisiana	7,552.8	7,552.8	2,372.8	2,372.8	6,896.3	7,142.7	2,852.9	2,852.9	891.9	891.9	45.5	45.5	407.4	407.4	21,019.6	21,266.0
Oklahoma	6,783.7	6,783.7	1,458.9	1,295.2	5,164.9	5,156.4	4,865.8	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,347.7	18,175.5
Texas	41,235.2	39,432.5	9,227.0	9,055.0	19,197.8	18,978.2	23,589.0	23,589.0	63.8	63.8	49.2	49.2	247.9	247.9	93,609.9	91,415.6
Mountain	22,494.2	22,504.6	8,659.0	8,819.0	3,341.9	3,336.9	28,183.6	28,674.4	52.0	52.0	370.8	370.8	111.6	111.6	63,213.1	63,869.3
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	2,532.3	329.0	329.0	4,851.0	5,084.8	0.0	0.0	168.4	168.4	0.0	0.0	11,161.2	11,355.0
Idaho	558.1	568.5	562.1	562.1	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,148.1	1,158.5
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,415.0	5,415.0	1,185.6	1,385.6	444.6	444.6	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,791.6	8,248.6
New Mexico	1,465.0	1,465.0	976.0	976.0	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,828.3	6,828.3
Utah	1,830.0	1,830.0	520.2	520.2	316.2	311.2	4,654.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,343.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,411.6	6,411.6	0.0	0.0	5.8	5.8	110.1	110.1	6,788.0	6,788.0
Pacific Contiguous	25,987.3	25,891.2	11,763.8	11,514.7	8,877.0	11,872.2	1,982.0	1,982.0	17.0	17.0	485.3	422.3	229.3	229.3	49,341.7	51,928.7
California	19,962.8	19,878.8	10,910.6	10,661.5	8,621.0	11,616.2	57.0	57.0	17.0	17.0	470.1	407.1	229.3	229.3	40,267.8	42,866.9
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	2,649.6	2,637.5	719.4	719.4	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,755.8	4,743.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,595.8	2,572.0	6.4	6.4	4,216.5	4,159.5
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	725.0	701.2	0.0	0.0	2,159.3	2,102.3
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,870.8	6.4	6.4	2,057.2	2,057.2
U.S. Total	245,126.9	238,302.7	127,060.0	125,818.7	79,892.3	83,593.4	262,768.4	267,418.9	1,466.7	1,466.7	32,287.6	33,509.4	2,456.9	2,456.9	751,058.8	752,566.7

NM = Not meaningful due to large relative standard error.
Values for 2016 are final. Values for 2017 are preliminary.

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	58540	California PV Energy LLC	IPP	CA Department of Public Health at Richmo	CA	60428	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC
2017	1	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV
2017	1	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV
2017	1	58549	County of Alameda GSA	Electric CHP	Santa Rita Jail	CA	58625	SRFC2	1.4	Other Natural Gas	NG	FC
2017	1	58549	County of Alameda GSA	Electric CHP	Santa Rita Jail	CA	58625	SRPV3	0.5	Solar Photovoltaic	SUN	PV
2017	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Bowling Green	OH	60622	AMPBG	20.0	Solar Photovoltaic	SUN	PV
2017	1	61024	Deep Branch Farm, LLC	IPP	Deep Branch Farm	NC	61403	1	5.0	Solar Photovoltaic	SUN	PV
2017	1	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV
2017	1	60793	EE Waianae Solar Project LLC	IPP	EE Waianae Solar Project	HI	61172	WAIAN	27.6	Solar Photovoltaic	SUN	PV
2017	1	61077	IGS ORIX Solar I, LLC	IPP	IOS - MEW Phase 1	ME	61460	MEW1	4.1	Solar Photovoltaic	SUN	PV
2017	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV
2017	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2017	1	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT
2017	1	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV
2017	1	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	1	13683	North Carolina El Member Corp	Electric Utility	Ocracoke	NC	6377	BAT	1.0	Batteries	MWH	BA
2017	1	60562	Oliver Wind III, LLC	IPP	Oliver Wind III, LLC	ND	60905	WT1	99.3	Onshore Wind Turbine	WND	WT
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	60834	Pima Energy Storage System	IPP	Pima Energy Storage System	AZ	61197	PIMA	10.0	Batteries	MWH	BA
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	COGN1	78.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	60520	SoCore Energy LLC	IPP	Mt. Hope DPC Solar	WI	60893	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60520	SoCore Energy LLC	IPP	Sauk DPC Solar	WI	60887	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60970	SunShare Management	IPP	WakeSun, LLC CSG	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA
2017	1	60947	Tesla Inc.	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	1	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS4	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	1-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	2-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	3-III	1.6	Landfill Gas	LFG	IC
2017	1	40211	Wabash Valley Power Assn, Inc	Electric Utility	Liberty I & II LFGTE	IN	56465	4-III	1.6	Landfill Gas	LFG	IC
2017	1	58918	West Siler Farm LLC	IPP	West Siler Farm LLC	NC	59112	1	5.0	Solar Photovoltaic	SUN	PV
2017	1	60607	Wildwood Solar II, LLC	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV
2017	2	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT
2017	2	59050	Algonquin Power Co	IPP	Luning Energy	NV	61084	LNING	50.0	Solar Photovoltaic	SUN	PV
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	10	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	11	29.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	9	50.0	Natural Gas Fired Combined Cycle	NG	CT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	2	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 35, LLC	NC	61258	ISS35	1.9	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 59, LLC	NC	61259	ISS59	1.9	Solar Photovoltaic	SUN	PV
2017	2	60865	CD Global Solar Holdings, LLC	IPP	Innovative Solar 60, LLC	NC	61260	ISS60	1.9	Solar Photovoltaic	SUN	PV
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT1	41.6	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT2	74.5	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT3	32.9	Onshore Wind Turbine	WND	WT
2017	2	60501	Farmington Holdco LLC	IPP	Farmington Holdco Solar	MN	60832	FARMI	5.0	Solar Photovoltaic	SUN	PV
2017	2	60507	Fresh Air Energy XXXV, LLC	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV
2017	2	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 2	NC	61275	WILS2	3.8	Solar Photovoltaic	SUN	PV
2017	2	61077	IGS ORIX Solar I, LLC	IPP	IGS Solar I - BWI2	MD	61465	BWI2	1.4	Solar Photovoltaic	SUN	PV
2017	2	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	60618	Lindberg Field Solar 2, LLC	IPP	Lindberg Field Solar 2	CA	60984	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	2	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA01	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA02	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA03	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA04	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA05	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	60490	Pine Island Holdco, LLC	IPP	Pine Island Solar	MN	60835	PINEI	3.9	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV
2017	2	60336	SDGE Batteries	Electric Utility	El Cajon Energy Storage	CA	60569	SES	7.5	Batteries	MWH	BA
2017	2	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	BESS	0.5	Batteries	MWH	BA
2017	2	60520	SoCore Energy LLC	IPP	Bandera Electric Coop PV	TX	61205	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Downsville DPC Solar	WI	60892	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Medford DPC Solar	WI	60894	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	2	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV
2017	2	60947	Tesla Inc.	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	57081	WGL Energy Systems, Inc	IPP	Lind Solar CSG	MN	60966	S0222	4.9	Solar Photovoltaic	SUN	PV
2017	3	60571	AEP Onsite Partners	IPP	Canandaigua Westbrook Solar Array	NY	61042	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV
2017	3	60281	Altus Power America Management, LLC	IPP	Spartan	NJ	60755	PV1	8.3	Solar Photovoltaic	SUN	PV
2017	3	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV
2017	3	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV
2017	3	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00603	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00696	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00697	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00698	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00699	1.4	Landfill Gas	LFG	IC
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG Energy	FL	60701	00700	1.4	Landfill Gas	LFG	IC
2017	3	60407	Cimarron Bend Wind Project II, LLC	IPP	Cimarron Bend Wind Project II, LLC	KS	60688	1	200.0	Onshore Wind Turbine	WND	WT
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT4	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT5	2.0	Petroleum Liquids	DFO	IC
2017	3	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT6	2.0	Petroleum Liquids	DFO	IC
2017	3	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT
2017	3	61060	Cypress Creek Renewables	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2017	3	60814	Drop 5 Hydro LLC	IPP	Drop 5	CO	61191	GEN1	2.4	Conventional Hydroelectric	WAT	HY
2017	3	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	27.6	Solar Photovoltaic	SUN	PV
2017	3	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT
2017	3	60888	GCL New Energy, Inc.	IPP	Jackson Solar Farm	NC	61292	JAKSN	8.6	Solar Photovoltaic	SUN	PV
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST
2017	3	60343	Hector Farm, LLC	IPP	Hector Farm	NC	60577	1	5.0	Solar Photovoltaic	SUN	PV
2017	3	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV
2017	3	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT
2017	3	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 300A	CA	61249	W5531	2.9	Solar Photovoltaic	SUN	PV
2017	3	58822	MC Power Companies Inc	IPP	Independence Solar Farm	MO	61092	IPL1	3.0	Solar Photovoltaic	SUN	PV
2017	3	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	3	59469	Mt. Home Solar 1, LLC	IPP	Mt. Home Solar 1, LLC	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV
2017	3	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV
2017	3	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT
2017	3	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT
2017	3	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA
2017	3	60448	Simcoe Solar	IPP	Simcoe Solar	ID	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV
2017	3	60651	Spring Street Solar 1, LLC	IPP	Spring Street Solar 1 CSG	MA	61009	SPRIN	2.0	Solar Photovoltaic	SUN	PV
2017	3	19728	UNS Electric, Inc	Electric Utility	Jacobson 5 MW Solar	AZ	60603	PV1	4.1	Solar Photovoltaic	SUN	PV
2017	3	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	3	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT
2017	3	60487	Wabasha Holdco LLC	IPP	Wabasha Holdco Solar	MN	60838	WABAS	3.0	Solar Photovoltaic	SUN	PV
2017	3	22500	Westar Energy Inc	Electric Utility	Western Plains Wind Farm	KS	60689	1	280.0	Onshore Wind Turbine	WND	WT
2017	3	60614	Westside Solar, LLC	IPP	NextEra Westside PV	CA	60981	WS526	20.0	Solar Photovoltaic	SUN	PV
2017	3	60619	Whitney Point Solar, LLC	IPP	Whitney Point Solar	CA	60975	WS532	20.0	Solar Photovoltaic	SUN	PV
2017	3	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT
2017	4	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar CSG 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV
2017	4	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	COGEN	2.0	Natural Gas Internal Combustion Engine	NG	IC
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0	Other Waste Biomass	OBG	GT
2017	4	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0	Other Waste Biomass	OBG	GT
2017	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA
2017	4	60496	Enerparc Inc.	IPP	Green Meadow Solar, LLC	MT	61291	GMSMT	3.0	Solar Photovoltaic	SUN	PV
2017	4	60496	Enerparc Inc.	IPP	River Bend Solar, LLC	MT	61289	RBSMT	2.0	Solar Photovoltaic	SUN	PV
2017	4	60496	Enerparc Inc.	IPP	South Mills Solar, LLC	MT	61290	SMSMT	3.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 1	NC	61274	WISL1	3.3	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 3	NC	61276	WILS3	9.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 4	NC	61277	WILS4	9.0	Solar Photovoltaic	SUN	PV
2017	4	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 7	NC	61280	WILS7	9.2	Solar Photovoltaic	SUN	PV
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	211.7	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	211.8	Natural Gas Fired Combined Cycle	NG	CT
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	230.1	Natural Gas Fired Combined Cycle	NG	CA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	BA1	10.0	Batteries	MWH	BA
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	4	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	4	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV
2017	4	60307	NRG Solar Blythe II LLC	IPP	Solar Blythe 2	CA	60558	PV1	20.0	Solar Photovoltaic	SUN	PV
2017	4	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT
2017	4	60584	Onyx Asset Services Group	IPP	Onyx - Allen Harim	DE	61206	10021	1.5	Solar Photovoltaic	SUN	PV
2017	4	60920	Peterson Road Solar, LLC	IPP	Peterson Road Solar	MA	61307	02076	2.5	Solar Photovoltaic	SUN	PV
2017	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV
2017	4	16609	San Diego Gas & Electric Co	Electric Utility	Ramona Solar Energy	CA	60995	1	3.8	Solar Photovoltaic	SUN	PV
2017	4	60636	SolaireHolman 1, LLC	IPP	SolaireHolman Solar Project	TX	60989	PV1	50.0	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV
2017	4	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV
2017	4	60848	Spencer Farm, LLC	IPP	Spencer Farm, LLC	NC	61220	1	5.0	Solar Photovoltaic	SUN	PV
2017	4	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	4	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV
2017	4	58375	Sterling Municipal Light Department	Electric Utility	Chocksett Rd Energy Storage Project	MA	60959	BA1	2.0	Batteries	MWH	BA
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV
2017	4	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG1	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG2	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG3	211.0	Natural Gas Fired Combined Cycle	NG	CT
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	STG1	467.0	Natural Gas Fired Combined Cycle	NG	CA
2017	4	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA
2017	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV
2017	5	60571	AEP Onsite Partners	IPP	AEP Jacksonville Solar Project	FL	61388	PV1	7.1	Solar Photovoltaic	SUN	PV
2017	5	61012	AES Distributed Energy	IPP	Amazon - Patterson PV	CA	61377	PATT1	2.5	Solar Photovoltaic	SUN	PV
2017	5	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	5	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 5	NC	61278	WILS5	9.5	Solar Photovoltaic	SUN	PV
2017	5	60888	GCL New Energy, Inc.	IPP	Wilson Solar Farm 6	NC	61279	WILS6	9.7	Solar Photovoltaic	SUN	PV
2017	5	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV
2017	5	61077	IGS ORIX Solar I, LLC	IPP	City of Lexington	NE	61467	LXNE1	3.5	Solar Photovoltaic	SUN	PV
2017	5	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV
2017	5	60879	NGI-Kayenta Solar Lessor I, LLC	IPP	Kayenta Solar Project	AZ	61268	PV1	27.3	Solar Photovoltaic	SUN	PV
2017	5	61061	Panasonic Battery Project	Electric Utility	Panasonic Carport Solar	CO	61439	PANPV	1.3	Solar Photovoltaic	SUN	PV
2017	5	60962	Saluda Solar II, LLC	IPP	Saluda Solar II	SC	61323	PGRB5	3.4	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	T0588 Phoenix - AZ	AZ	61199	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA1	0.5	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA
2017	5	60947	Tesla Inc.	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	5	60947	Tesla Inc.	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV
2017	5	57081	WGL Energy Systems, Inc	IPP	Gulfport Naval Base CSG PV System	MS	61208	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC
2017	5	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC
2017	6	60571	AEP Onsite Partners	IPP	Letchworth Solar Project	NY	61389	PV1	1.2	Solar Photovoltaic	SUN	PV
2017	6	61012	AES Distributed Energy	IPP	Cedar Creek PV	NY	61376	CEDR1	1.8	Solar Photovoltaic	SUN	PV
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC
2017	6	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV
2017	6	60966	Barnwell Solar, LLC	IPP	Barnwell Solar	SC	61327	PGRB1	5.4	Solar Photovoltaic	SUN	PV
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT
2017	6	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM01	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM02	1.5	Landfill Gas	LFG	IC
2017	6	55858	Energy Developments Inc	IPP	Brown County LFGTE Power Station	OH	61145	GM03	1.5	Landfill Gas	LFG	IC
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT
2017	6	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA
2017	6	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	6	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	7.3	Conventional Hydroelectric	WAT	HY

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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
2017	6	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV
2017	6	60738	Gulf Coast Solar Center I (CA)	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC
2017	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC
2017	6	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	6	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV
2017	6	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV
2017	6	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	0.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV
2017	6	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV
2017	6	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 CSG LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV
2017	6	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2017	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	6	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV
2017	6	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV
2017	6	60947	Tesla Inc.	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	6	60723	VRF Battery Plant	Electric Utility	Vanadium Redox Flow Battery Plant	CA	61107	VRF	2.0	Batteries	MWH	BA
2017	6	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV
2017	7	60634	AEM Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT
2017	7	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC
2017	7	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	50.0	Wood/Wood Waste Biomass	WDS	ST
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV
2017	7	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY
2017	7	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC
2017	7	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV
2017	7	60965	Cameron Solar II, LLC	IPP	Cameron Solar II	SC	61326	PGRB2	4.1	Solar Photovoltaic	SUN	PV
2017	7	57319	Constellation Solar Massachusetts LLC	IPP	Smith & Wesson at Springfield MA PV	MA	61367	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	7	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT
2017	7	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Combined Cycle	NC	58697	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV
2017	7	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4	Natural Gas Internal Combustion Engine	NG	IC
2017	7	61021	Hecate Energy Clarke County, LLC	Electric Utility	Clarke Solar Power Facility	VA	61374	PV1	10.0	Solar Photovoltaic	SUN	PV
2017	7	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV
2017	7	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400A	CA	61348	W5691	2.3	Solar Photovoltaic	SUN	PV
2017	7	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 400B	CA	61349	W5694	2.2	Solar Photovoltaic	SUN	PV
2017	7	58822	MC Power Companies Inc	IPP	Chillicothe Solar Farm	MO	61223	CHSF1	2.5	Solar Photovoltaic	SUN	PV
2017	7	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT
2017	7	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	EDG13	1.5	Natural Gas Internal Combustion Engine	NG	IC
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA
2017	7	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA
2017	7	58245	Patua Acquisition Company, LLC	IPP	Patua Geothermal Project Phase 1A	NV	58319	PV-01	10.6	Solar Photovoltaic	SUN	PV
2017	7	60859	Redbed Plains Wind Farm LLC	IPP	Redbed Plains Wind Farm	OK	61221	WT1	99.1	Onshore Wind Turbine	WND	WT
2017	7	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	60947	Tesla Inc.	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	7	60947	Tesla Inc.	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	7	60950	USPS LA Solar FiT A & B	Electric Utility	USPS PV	CA	61250	USPS1	10.7	Solar Photovoltaic	SUN	PV
2017	7	19724	Vanderbilt University	Commercial	Vanderbilt University Power Plant	TN	52048	GT1B	5.8	Natural Gas Fired Combustion Turbine	NG	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	7	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV
2017	8	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY
2017	8	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	4.6	Solar Photovoltaic	SUN	PV
2017	8	60409	Blue Summit Storage, LLC	IPP	Blue Summit Storage, LLC	TX	60690	WBSS	30.0	Batteries	MWH	BA
2017	8	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	Bizzell Church Solar 2	NC	61158	BIZZE	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	St. Pauls Solar 2	NC	61156	STPAU	5.0	Solar Photovoltaic	SUN	PV
2017	8	60865	CD Global Solar Holdings, LLC	IPP	ZV Solar 2, LLC	NC	61257	ZV204	4.9	Solar Photovoltaic	SUN	PV
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC
2017	8	61062	Denver Braswell	IPP	Denver Braswell PV	GA	61441	GPDB1	1.4	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG1	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG2	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG3	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG4	1.0	Solar Photovoltaic	SUN	PV
2017	8	61000	Equuleus Community Solar Gardens, LLC	IPP	Equuleus Community Solar Gardens	MN	61363	CSG5	1.0	Solar Photovoltaic	SUN	PV
2017	8	60921	Farley Road Solar, LLC	IPP	Farley Road Solar	MA	61294	02419	1.9	Solar Photovoltaic	SUN	PV
2017	8	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV
2017	8	60964	Hampton Solar I, LLC	IPP	Hampton Solar I	SC	61325	PGRB3	6.8	Solar Photovoltaic	SUN	PV
2017	8	61077	IGS ORIX Solar I, LLC	IPP	IOS - ERW9	NJ	61466	EWR9	5.3	Solar Photovoltaic	SUN	PV
2017	8	61077	IGS ORIX Solar I, LLC	IPP	Valdosta Prison	GA	61468	GPVP1	1.0	Solar Photovoltaic	SUN	PV
2017	8	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC
2017	8	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC
2017	8	60963	Odyssey Solar, LLC	IPP	Odyssey Solar	SC	61324	PGRB4	8.2	Solar Photovoltaic	SUN	PV
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY
2017	8	61061	Panasonic Battery Project	Electric Utility	Panasonic Carport Solar	CO	61439	PANBS	1.0	Batteries	MWH	BA
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS1	0.9	Solar Photovoltaic	SUN	PV
2017	8	60823	Pegasus Community Solar	IPP	Pegasus Community Solar	MN	61175	CPCS2	0.9	Solar Photovoltaic	SUN	PV
2017	8	60916	SR Kersey, LLC	IPP	SR Kersey	CO	61314	KERS	3.5	Solar Photovoltaic	SUN	PV
2017	8	61090	San Luis Solar Garden LLC	IPP	San Luis Solar Garden	CO	61472	ANTO2	1.2	Solar Photovoltaic	SUN	PV
2017	8	60163	Soltage LLC	IPP	231 Dixon 74 Solar I, LLC	NC	61195	DIXON	2.0	Solar Photovoltaic	SUN	PV
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV
2017	8	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV
2017	8	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV
2017	8	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA
2017	8	60947	Tesla Inc.	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV
2017	8	60947	Tesla Inc.	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	9	60863	ACE-Stanton A, LLC	IPP	ACE-Stanton A PV	FL	61247	ASA1	4.1	Solar Photovoltaic	SUN	PV
2017	9	60862	ACE-Stanton, LLC	IPP	ACE-Stanton PV	FL	61246	ASLF1	4.8	Solar Photovoltaic	SUN	PV
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV
2017	9	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Boaz Farm Solar	NC	61157	BOAZF	5.0	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV
2017	9	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV
2017	9	60990	Cline Solar, LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Long Henry Solar	NC	61347	GEN1	2.0	Solar Photovoltaic	SUN	PV
2017	9	61060	Cypress Creek Renewables	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Black Eagle Solar, LLC	MT	61336	BESMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Great Divide Solar, LLC	MT	61335	GDSMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60496	Enerparc Inc.	IPP	Magpie Solar, LLC	MT	61337	MSMT	3.0	Solar Photovoltaic	SUN	PV
2017	9	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV
2017	9	60917	Golden Hills Solar, LLC	IPP	Golden Hills Solar	MA	61315	02196	4.7	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	9	60926	Hatfield Renewables, LLC	IPP	Hatfield Renewables	MA	61299	02599	1.9	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV
2017	9	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV
2017	9	58822	MC Power Companies Inc	IPP	BPU Solar Farm	KS	61313	BPU1	1.0	Solar Photovoltaic	SUN	PV
2017	9	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV
2017	9	61040	Moorings Farm 2, LLC	IPP	Moorings Farm 2	NC	61405	1	5.0	Solar Photovoltaic	SUN	PV
2017	9	56990	NJR Clean Energy Ventures Corporation	IPP	Princeton Solar Project	NJ	61354	STONY	2.5	Solar Photovoltaic	SUN	PV
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV
2017	9	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	9	61058	One Ten Partner, LLC	IPP	One Ten Partners PV	CA	61419	OTP	2.0	Solar Photovoltaic	SUN	PV
2017	9	60925	Pleasantdale Road Solar, LLC	IPP	Pleasantdale Road Solar	MA	61298	02112	1.0	Solar Photovoltaic	SUN	PV
2017	9	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT
2017	9	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT
2017	9	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV
2017	9	60924	Upton Solar, LLC	IPP	Upton Solar	MA	61297	02567	2.0	Solar Photovoltaic	SUN	PV
2017	10	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	0.9	Solar Photovoltaic	SUN	PV
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS2	0.9	Solar Photovoltaic	SUN	PV
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV
2017	10	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS1	0.9	Solar Photovoltaic	SUN	PV
2017	10	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV
2017	10	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV
2017	10	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS4	0.9	Solar Photovoltaic	SUN	PV
2017	10	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV
2017	10	15399	Avangrid Renewables LLC	IPP	Gala Solar	OR	61048	PV1	56.0	Solar Photovoltaic	SUN	PV
2017	10	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV
2017	10	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV
2017	10	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	0.9	Solar Photovoltaic	SUN	PV
2017	10	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT
2017	10	7294	City of Glendale - (CA)	Electric Utility	Glendale Battery Energy Storage System	CA	60974	2BESS	2.0	Batteries	MWH	BA
2017	10	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.7	Solar Photovoltaic	SUN	PV
2017	10	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV
2017	10	61060	Cypress Creek Renewables	IPP	Bear Creek Solar	NC	61351	GEN1	2.0	Solar Photovoltaic	SUN	PV
2017	10	61060	Cypress Creek Renewables	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2017	10	61060	Cypress Creek Renewables	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	10	61060	Cypress Creek Renewables	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	10	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV
2017	10	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV
2017	10	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV
2017	10	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	7	1.0	Petroleum Liquids	DFO	IC
2017	10	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W1	1.5	Onshore Wind Turbine	WND	WT
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W2	1.5	Onshore Wind Turbine	WND	WT
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W3	1.5	Onshore Wind Turbine	WND	WT
2017	10	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	15257	Poudre Valley Associated Services, Inc.	Electric Utility	Coyote Ridge Community Solar	CO	61425	COYCS	1.5	Solar Photovoltaic	SUN	PV
2017	10	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV
2017	10	60649	Redbrook Solar 1, LLC	IPP	Redbrook Community Solar 1	MA	61007	REDBR	4.0	Solar Photovoltaic	SUN	PV
2017	10	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV
2017	10	60163	Soltage LLC	IPP	Mill Pond Solar Farm, LLC	NC	61196	MILLL	5.0	Solar Photovoltaic	SUN	PV
2017	10	60947	Tesla Inc.	IPP	Oneida County- DPW	NY	60114	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	9303	Bucksport Generation LLC	Electric CHP	Bucksport Generation LLC	ME	50243	GEN2	21.0	Wood/Wood Waste Biomass	WDS	ST
2017	1	19204	City of Trinidad - (CO)	Electric Utility	Trinidad (CO)	CO	511	1	3.8	Conventional Steam Coal	BIT	ST
2017	1	57249	EPP Renewable Energy	IPP	Moretown	VT	56891	GEN 1	1.6	Landfill Gas	LFG	IC
2017	1	11241	Entergy Louisiana LLC	Electric Utility	R S Nelson	LA	1393	3	146.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	5	312.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	6	317.0	Natural Gas Steam Turbine	NG	ST
2017	1	12631	NRG Delta LLC	IPP	Pittsburg Power	CA	271	7	682.0	Natural Gas Steam Turbine	NG	ST
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	1	56773	Toyon Landfill Gas Conversion, LLC	IPP	Toyon Power Station	CA	54327	TOY3	1.7	Landfill Gas	LFG	IC
2017	1	19900	Viking Energy Corp	Electric CHP	Viking Energy of Northumberland	PA	50771	GEN1	16.2	Wood/Wood Waste Biomass	WDS	ST
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G102	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G103	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	G104	100.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	S101	50.3	Natural Gas Fired Combined Cycle	NG	CA
2017	2	3775	Clear Lake Cogeneration LP	Electric CHP	Clear Lake Cogeneration Ltd	TX	10741	S102	12.1	Natural Gas Fired Combined Cycle	NG	CA
2017	2	57249	EPP Renewable Energy	Electric CHP	Frey Farm Landfill	PA	56510	GEN1	1.6	Landfill Gas	LFG	IC
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT4	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT5	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	13193	Naniwa Energy LLC	IPP	Tri Center Naniwa Energy	NV	55494	CT6	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	E2	0.8	Other Waste Biomass	OBG	IC
2017	2	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	E5	1.8	Other Waste Biomass	OBG	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Reedy Creek	GA	54849	G1	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Reedy Creek	GA	54849	G2	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Sandersville	GA	54841	G1	1.1	Petroleum Liquids	DFO	IC
2017	2	18843	Thiele Kaolin Co	Industrial	Thiele Kaolin Sandersville	GA	54841	G2	1.1	Petroleum Liquids	DFO	IC
2017	2	55808	Westmoreland Partners	Electric CHP	Roanoke Valley Energy Facility I	NC	54035	GEN1	165.0	Conventional Steam Coal	BIT	ST
2017	2	55808	Westmoreland Partners	Electric CHP	Roanoke Valley Energy Facility II	NC	54755	GEN2	44.0	Conventional Steam Coal	BIT	ST
2017	3	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GT1	11.0	Petroleum Liquids	DFO	GT
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	3	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	3	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	3	10023	TC Ravenswood LLC	IPP	Ravenswood	NY	2500	GT7	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	3	20863	Wisconsin River Power Company	Electric Utility	Juneau	WI	8050	31	12.6	Petroleum Liquids	DFO	GT
2017	4	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	5	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	5	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.1	Natural Gas Steam Turbine	NG	ST
2017	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	5	29849	Wasatch Integrated Waste Management	Electric CHP	Wasatch Energy Systems Energy Recovery	UT	55302	1	1.6	Municipal Solid Waste	MSW	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	225.2	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	237.8	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	575.0	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	435.0	Petroleum Liquids	RFO	ST
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	9	50.0	Petroleum Liquids	DFO	GT
2017	6	55838	Exelon Wind 1, LLC	IPP	EXC Wind 1	TX	56557	1	10.0	Onshore Wind Turbine	WND	WT
2017	6	55837	Exelon Wind 2, LLC	IPP	EXC Wind 2	TX	56558	JDW2	10.0	Onshore Wind Turbine	WND	WT
2017	6	55836	Exelon Wind 3, LLC	IPP	EXC Wind 3	TX	56559	JDW3	10.0	Onshore Wind Turbine	WND	WT
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Hudson Generating Station	NJ	2403	2	620.0	Natural Gas Steam Turbine	NG	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	1	316.0	Conventional Steam Coal	BIT	ST
2017	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	2	316.0	Conventional Steam Coal	BIT	ST
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND1	0.8	Onshore Wind Turbine	WND	WT
2017	6	56981	Town of Falmouth	Commercial	Town of Falmouth WWTP	MA	57654	WIND2	0.8	Onshore Wind Turbine	WND	WT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2A	0.4	Petroleum Liquids	DFO	IC
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTA	23.0	Petroleum Liquids	DFO	GT
2017	7	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GTB	25.0	Petroleum Liquids	DFO	GT
2017	7	21352	Municipal Energy Agency of NE	Electric Utility	MEAN Wind Project	NE	56106	1	10.5	Onshore Wind Turbine	WND	WT
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN1	0.5	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN2	0.5	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN3	0.7	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN4	0.7	Petroleum Liquids	DFO	IC
2017	8	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN5	0.7	Petroleum Liquids	DFO	IC
2017	8	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	9	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	11	60281	Altus Power America Management, LLC	IPP	DDR Shoppers World	MA	60754	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	11	60692	Ameresco BWC Wading River LLC	IPP	BWC Wading River One, Two, Three	MA	61069	62381	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	11	60541	Ameresco Glendale Road Solar PV LLC	IPP	Northampton Landfill Solar PV	MA	60908	62380	2.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.4
2017	11	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	100.0
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	11	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	11	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.0
2017	11	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.0
2017	11	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.8
2017	11	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	11	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	11	58519	Clean Energy Collective LLC	IPP	Conejos 1 Community Solar Array	CO	60723	CONEJ	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	11	60795	Columbus Solar Project	IPP	Columbus Solar Project	NM	61165	88029	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2017	11	56769	Consolidated Edison Development Inc.	IPP	CED Foster	RI	61499	FORI	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	11	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Jakin GA PV	GA	61397	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	11	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Swainsboro	GA	61459	PV1	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.9
2017	11	61042	Cottonwood Wind Project	IPP	Cottonwood Wind Energy Center	NE	61407	CTNWD	89.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	89.7
2017	11	61060	Cypress Creek Renewables	IPP	Highway 56 Solar	TX	61409	GEN1	5.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.3
2017	11	6455	Duke Energy Florida, LLC	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2017	11	60869	EDF Renewable Energy	IPP	Rock Falls Wind Farm LLC	OK	61261	RF1	154.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	154.5
2017	11	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	8.5
2017	11	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	11	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	155.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	155.4
2017	11	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	11	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	11	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	11	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	11	60811	Golden Hills Interconnection Wind, LLC	IPP	Golden Hills North Wind Energy Center	CA	61222	1	46.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	46.0
2017	11	60739	Gulf Coast Solar Center II (CA)	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	40.0
2017	11	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	11	61022	Hecate Energy Cherrydale LLC	Electric Utility	Cherrydale Solar Power Facility	VA	61375	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	11	60969	Hog Creek Wind Project LLC	IPP	Hog Creek Wind Project	OH	61330	WT1	66.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	66.0
2017	11	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2017	11	60461	LSDP 11, LLC	IPP	Deerfield Solar	MA	60775	PV1	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2017	11	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	11	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	11	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	11	58822	MC Power Companies Inc	IPP	Higginsville Solar Farm	MO	61316	HSF1	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42278	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42279	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42280	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42281	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61075	Minnesota Solar CSG 19, LLC	IPP	B.R. Corcoran	MN	61453	42282	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42286	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42287	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61074	Minnesota Solar CSG 21, LLC	IPP	B.R. Sartell	MN	61454	42288	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41620	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41621	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61076	Minnesota Solar CSG 4, LLC	IPP	Montgomery Winsted	MN	61456	41622	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42292	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42294	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42295	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42296	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	61073	Minnesota Solar CSG 9, LLC	IPP	B.R. Sauk Rapids	MN	61455	42297	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.9
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	1	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	2	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	3	0.1	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.1
2017	11	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	11	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	66.0
2017	11	61039	Pikeville Farm, LLC	IPP	Pikeville Farm	NC	61404	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	11	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	61093	SL Babylon, LLC	IPP	SL Babylon	NY	61487	SLBAB	8.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.9
2017	11	61081	SR Platte	IPP	SR Platte Solar Farm	CO	61462	PV1	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	11	60919	Sampson Road Solar, LLC	IPP	Sampson Road Solar	MA	61308	02696	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	11	60520	SoCore Energy LLC	IPP	VEC Magee Hill Solar	VT	60954	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	11	60163	Soltage LLC	IPP	Broadridge Solar, LLC	NC	61218	BROAD	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	11	60652	Stafford St Solar 1, LLC	IPP	Stafford St Solar 1	MA	61016	STAF1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60653	Stafford St Solar 2, LLC	IPP	Stafford St Solar 2	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60654	Stafford St Solar 3, LLC	IPP	Stafford St Solar 3	MA	61018	STAF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	11	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2017	11	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA2	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2017	11	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	11	60947	Tesla Inc.	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	11	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	11	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	1	2.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	2	2.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	3	2.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	5	2.0	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	21.0
2017	11	61072	Waterford Holdco LLC	IPP	Waterford Holdco	MN	61452	WATER	2.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.7
2017	11	60059	ZGlobal Inc	IPP	Valencia 1 Solar CA	CA	61418	VAL1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2017	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	12	61105	ABEC #2 LLC	IPP	ABEC #2 dba West-Star Dairy	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61106	ABEC #3 LLC	IPP	ABEC #3 dba Lakeview Dairy	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61107	ABEC #4 LLC	IPP	ABEC #4 dba CE&S Dairy	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	61012	AES Distributed Energy	IPP	Monroe County Sites A & B	NY	61509	MONA	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2017	12	61012	AES Distributed Energy	IPP	Monroe County Sites A & B	NY	61509	MONB	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2017	12	61012	AES Distributed Energy	IPP	Monroe County Sites C, D, & E	NY	61510	MONC	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	61012	AES Distributed Energy	IPP	Monroe County Sites C, D, & E	NY	61510	MOND	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	61012	AES Distributed Energy	IPP	Monroe County Sites C, D, & E	NY	61510	MONE	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	79.2
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.4
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	1	0.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.8
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	127.0
2017	12	15399	Avangrid Renewables LLC	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	15399	Avangrid Renewables LLC	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	298.0
2017	12	15399	Avangrid Renewables LLC	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	143.0
2017	12	15399	Avangrid Renewables LLC	IPP	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	75.0
2017	12	60730	Bakersfield Industrial PV 1, LLC	IPP	Bakersfield Industrial PV 1	CA	61118	BIND1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60729	Bakersfield PV 1, LLC	IPP	Bakersfield PV 1	CA	61117	BAKE1	5.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.3
2017	12	60746	Bedford Solar, LLC	IPP	Bedford Solar	VA	61126	12346	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	12	60944	Bluff Point Wind, LLC	IPP	Bluff Point Wind Facility	IN	61303	BLUFF	119.7	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	119.7
2017	12	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.5
2017	12	61096	Cameron Solar, LLC	IPP	Cameron Solar	SC	61489	CAM	19.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.9
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	361.3
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.1
2017	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2017	12	60380	Cork Oak Solar LLC	IPP	Cork Oak Solar	NC	60637	NC160	26.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58695	Coronal Development Services	IPP	Essex Solar Center	VA	61406	ESSEX	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58695	Coronal Development Services	IPP	Martin Solar Center	VA	61458	MARTN	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	58695	Coronal Development Services	IPP	Palmer Solar Center	VA	61457	PALM	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61060	Cypress Creek Renewables	IPP	ABD Farms	NC	61525	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bondi Solar	NC	61352	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bullock Solar, LLC	NC	61512	GEN1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	12	61060	Cypress Creek Renewables	IPP	Marlin Solar	TX	61513	GEN1	5.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.3
2017	12	61060	Cypress Creek Renewables	IPP	Next Generation Solar Farm	VT	61340	NGSF1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	12	61060	Cypress Creek Renewables	IPP	North Gainesville Solar	TX	61514	GEN1	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2017	12	61060	Cypress Creek Renewables	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar	TX	61410	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar II	TX	61411	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61113	DG Camden, LLC	IPP	DG Camden LLC Holtec	NJ	61515	HOLTC	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2017	12	61111	DG New Jersey Solar, LLC	IPP	DG New Jersey Solar RLS Logistics	NJ	61507	RLSNJ	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	12	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	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
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	65.0
2017	12	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.8
2017	12	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	58468	Dominion Renewable Energy	IPP	Southampton Solar, LLC	VA	61422	PV1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	12	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	12	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	12	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	293.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	362.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Crittenden Solar Facility	KY	61310	PV1	2.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.7
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 1 Solar Facility	KY	61311	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	55729	Duke Energy Kentucky Inc	Electric Utility	Walton 2 Solar Facility	KY	61312	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Bruennings Breeze Wind Farm	TX	59066	MVII	228.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	228.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Inadale Wind Farm LLC	TX	56984	INABT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Radfords Run Wind Farm	IL	59061	WT1	278.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	278.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	4.0
2017	12	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	4.0
2017	12	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 3, LLC	OR	61201	ORSR3	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 6, LLC	OR	61430	PV6	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	WasecaSun	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	WasecaSun	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	WasecaSun	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	WasecaSun	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	WasecaSun	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.3
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2017	12	61097	Estill Solar I, LLC	IPP	Estill Solar	SC	61490	EST1	19.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.9
2017	12	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	130.0
2017	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	12	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	12	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	31.0
2017	12	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	369.0
2017	12	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	231.3
2017	12	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2017	12	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	61095	Hampton Solar II, LLC	IPP	Hampton Solar 2	SC	61498	HAM2	19.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.9
2017	12	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	57389	IKEA Property Inc	IPP	IKEA Grand Prairie Rooftop PV System	TX	61309	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2017	12	57389	IKEA Property Inc	Commercial	IKEA Joliet Rooftop PV System	IL	61192	PV	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	12	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	61028	LSE Cassiopeia LLC	IPP	Ashby Duffy Solar Farm	MA	61399	DU183	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2017	12	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	12	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.0
2017	12	60727	Manteca Land PV, LLC	IPP	Manteca Land PV	CA	61115	MANT1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	168.0
2017	12	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	71.4
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	12	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	12	61071	Northfield Holdco LLC	IPP	Northfield Holdco	MN	61451	NORTH	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	12	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
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Armstrong	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of MN Lake	MN	61140	0000D	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Vetter Farms	MN	61141	0000F	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	12	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
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2017	12	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	12	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	12	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	493.0
2017	12	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	12	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2017	12	60997	Red Pine Wind Project, LLC	IPP	Red Pine Wind Project	MN	61357	RP1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2017	12	60978	SP Solar 5, LLC	IPP	Mill Creek Solar (OR)	OR	61338	PGRC1	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	12	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	12	60520	SoCore Energy LLC	IPP	Richmond CSG	MN	61427	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	12	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	12	60595	Spartan PV 1, LLC	IPP	Spartan PV 1	MI	60945	PV1	10.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.5
2017	12	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	81.0
2017	12	60381	Sunflower Solar LLC	IPP	Sunflower Solar	NC	60638	NC160	20.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.5
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	12	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.6
2017	12	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8
2017	12	60947	Tesla Inc.	IPP	Maricopa County Community Colleges- Estr	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2017	12	60947	Tesla Inc.	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	Sacramento Regional County Sanitation PV	CA	61209	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	12	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	12	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	12	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.8
2017	12	61082	Vandenberg Solar I, LLC	IPP	Vandenberg Solar Project	CA	61463	VBERG	20.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.5
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.6
2017	12	60749	Wadesboro Solar, LLC	IPP	Wadesboro Solar	NC	61129	12347	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	12	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	12	60542	Willow Springs Windfarm, LLC	IPP	Willow Springs Wind Farm	TX	60901	WSPWF	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2017	12	60059	ZGlobal Inc	IPP	Madera 1 PV	CA	61421	MDRA1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	12	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2018	1	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	44.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	1	59218	East. Michigan Univ. Heating Plant	Commercial	East. Michigan Univ. Heating Plant	MI	59452	COGN2	6.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	7.8
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Feely 1, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	SunE Stolee, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	1	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	121.5
2018	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.1
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	460.0
2018	1	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
2018	1	60433	Sadiebrook Solar, LLC	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	1	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2018	1	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	1	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2018	1	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(TS) Construction complete, but not yet in commercial operation	37.0
2018	2	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2018	2	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	25.0
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2018	2	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2018	2	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	97.0
2018	2	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2018	2	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2018	2	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	2	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	3	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	3	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	3	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	3	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2018	3	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	202.0
2018	3	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	61060	Cypress Creek Renewables	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.5
2018	3	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	187.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	3	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6	360.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	360.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	238.0
2018	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	3	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.0
2018	3	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.8
2018	3	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	3	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	3	60947	Tesla Inc.	IPP	Hamilton College	NY	61103	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	60947	Tesla Inc.	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	4	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2018	4	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.4
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.5
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
2018	4	49893	Invenergy Services LLC	IPP	Santa Rita Wind Energy	TX	60987	GEN1	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	4	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2018	4	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	4	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	4	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	4	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	4	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	4	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	5	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	280.5
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	5	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	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	5	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2018	6	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	6	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2018	6	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2018	6	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	6	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation 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	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Salinas Valley State Prison	CA	61444	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	6	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	93.5
2018	6	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	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	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	55.0
2018	6	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	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	6	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	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	230.0
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2018	6	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.1
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	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	6	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	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	287.0
2018	6	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	476.9
2018	6	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	60596	Western Grid Development, LLC	IPP	Santa Paula Energy Storage	CA	60946	SPES1	5.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	6	60817	Winton Solar 2 LLC	IPP	Winton Solar 2	NC	61188	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	7	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	58.2
2018	7	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	7	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	7	60953	Farmingdale Fuel Cell, LLC	Electric CHP	Farmingdale Fuel Cell	NY	61317	MB-21	1.4	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2018	7	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	7	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2018	7	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2018	7	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	7	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	7	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	53.0
2018	7	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2018	7	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	7	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	7	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
2018	8	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	8	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	8	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	8	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	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	8	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	8	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	122.0
2018	8	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	8	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2018	9	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	105.0
2018	9	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	9	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	9	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	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
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	152.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.0
2018	10	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	152.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.5
2018	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
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wrigth 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	Wrigth 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	Wrigth Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	600.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
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	10	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2018	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2018	11	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	11	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	11	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	11	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2018	11	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0

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	11	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.2
2018	11	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2018	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	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2018	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2018	12	15399	Avangrid Renewables LLC	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2018	12	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	90.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	99.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	56769	Consolidated Edison Development Inc.	IPP	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	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	58695	Coronal Development Services	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2018	12	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	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
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	201.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	12	60603	Eisenhower Solar, LLC	IPP	Eisenhower Solar	NC	60963	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	76.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	76.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	59745	First Solar Asset Management	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0

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	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	36.0
2018	12	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	12	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2018	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2018	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2018	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2018	12	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	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	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	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
2018	12	58860	Southbridge Recycling and Disposal Park	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2018	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	35.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	35.0
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2018	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2018	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	394.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	12	59056	Tri Global Energy, 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	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	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	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	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4

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	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	1	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC2	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC3	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC4	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2019	1	58695	Coronal Development Services	IPP	Casper Solar Center	MD	61320	CSPSC	36.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	36.7
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2019	1	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2019	1	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	1	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind I	CA	60594	VYGR1	131.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	131.1
2019	2	60840	93LF 8me LLC	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	252.3
2019	2	60711	Battle Mountain SP, LLC	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2019	3	60846	GRP Madison Renewable Energy Facility, LLC	IPP	GRP Madison Renewable Energy Facility	GA	61213	GEN	65.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	65.0
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	200.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2019	3	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	4	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	488.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2019	5	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	225.0
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K4	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K5	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K6	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	5	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K7	18.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.3
2019	6	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
2019	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2019	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC2	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2019	6	13402	Nevada Irrigation District	IPP	Loma Rica Hydroelectric Powerhouse	CA	60988	HY1	1.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.4
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2019	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	210.0
2019	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN2	228.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	253.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	6	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	6	60519	Williams Solar, LLC	IPP	Williams Solar, LLC	TX	60859	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2019	7	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2019	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(L) Regulatory approvals pending. Not under construction	42.0

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	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	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2019	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2019	9	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	9	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2019	9	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2019	10	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	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	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	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	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Montague Wind Power Facility LLC	OR	58099	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
2019	12	60560	Big Blue Wind Farm, LLC (TX)	IPP	Big Blue River Wind Farm	IN	60907	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	61030	Bluegrove Wind, LLC	IPP	Bluegrove Wind	TX	61400	BLUGR	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	61031	Byers Wind, LLC	IPP	Byers Wind	TX	61401	BYERS	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2019	12	60288	Cattle Ridge Wind Farm, LLC	IPP	Cattle Ridge Wind Farm 1	SD	60503	CTTL1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2019	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2019	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	182.0
2019	12	60604	Mountain Lion Solar, LLC	IPP	Mountain Lion Solar	NC	60950	PV1	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2019	12	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2019	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	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	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
2019	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
2019	12	60646	Reading Wind Energy, LLC	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.1
2019	12	60601	River Otter Solar, LLC	IPP	River Otter Solar	NC	60969	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	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	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	180.0
2019	12	58661	Sustainable Power Group, LLC	IPP	ESI Project	CA	50819	SHWA	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0
2019	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2019	12	60597	Violet Solar, LLC	IPP	Violet Solar	NC	60961	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60427	WPD Wind Projects Inc	IPP	New Colony Wind Project	MT	60718	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT3	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	13478	Entergy New Orleans Inc	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0

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	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.1
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	4	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	5	60385	Energy Nuevo Storage Farm	Industrial	Energy Nuevo Storage Farm	CA	60646	NUEVO	20.0	Flywheels	MWH	FW	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	5	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	6	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	6	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	6	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	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2020	6	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2020	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	BA1	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2020	11	49880	EDP Renewables North America LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	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

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	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	218.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	230.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	110.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	116.0
2020	12	61010	Ord Mountain Solar, LLC	IPP	Ord Mountain Solar	CA	61372	ORDMT	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	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	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	12	58763	Summit Ridge Wind Holdings, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2020	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	58702	AES Energy Storage	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	1	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	1	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	3	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	4	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	260.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	498.2	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	552.0
2021	7	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	474.3	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	534.5
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	350.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	357.0
2021	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	123.6	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	136.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2021	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2022	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	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	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM8	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	1	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM9	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	2	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM10	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM11	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	4	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM12	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	11	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	11	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	11	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	11	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	11	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	1	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	2	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	3	41.0	Conventional Steam Coal	SUB	ST
2017	12	9205	Illinois Electricial Gen Partn	IPP	Streator Energy Partners LLC	IL	55760	ST1	0.9	Landfill Gas	LFG	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2017	12	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	12	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	12	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	12	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2018	1	49735	HGST a Western Digital Company	Industrial	HGST San Jose Standby Generator	CA	50024	50MW	42.0	Petroleum Liquids	DFO	GT
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	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	1	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	1	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	1	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	1	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	1	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
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	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	HP	0.0	Natural Gas Steam Turbine	NG	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	LP	0.0	Natural Gas Steam Turbine	NG	ST
2018	4	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	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	ST
2018	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	0.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST

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	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	1	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	53.5	Petroleum Liquids	KER	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2018	11	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	11	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	11	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	11	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	42.2	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2018	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	6	20.9	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	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	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	107.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	50.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	51.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT2	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT3	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	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	BIT	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	3	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	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2042	7	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV

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

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

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.8%	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%
Year 2015								
January	61.4%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	65.0%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.9%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	44.0%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
Year 2016								
January	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%	50.5%	6.6%	4.3%	NA	10.7%	1.6%	NA
February	49.4%	48.3%	6.9%	3.9%	NA	9.5%	2.0%	NA
March	46.2%	48.2%	9.8%	7.8%	NA	12.9%	2.1%	NA
April	43.8%	45.9%	8.3%	8.6%	NA	9.5%	1.2%	NA
May	48.1%	49.5%	9.0%	9.9%	NA	15.4%	1.9%	NA
June	58.4%	60.2%	9.9%	15.4%	NA	15.3%	1.8%	NA
July	67.2%	70.1%	12.8%	21.5%	NA	18.1%	2.1%	NA
August	62.9%	69.3%	11.0%	18.6%	NA	14.3%	2.2%	NA
Sept	53.4%	58.8%	11.7%	15.4%	NA	13.5%	3.0%	NA
October	47.4%	51.2%	10.0%	14.3%	NA	11.1%	2.6%	NA

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

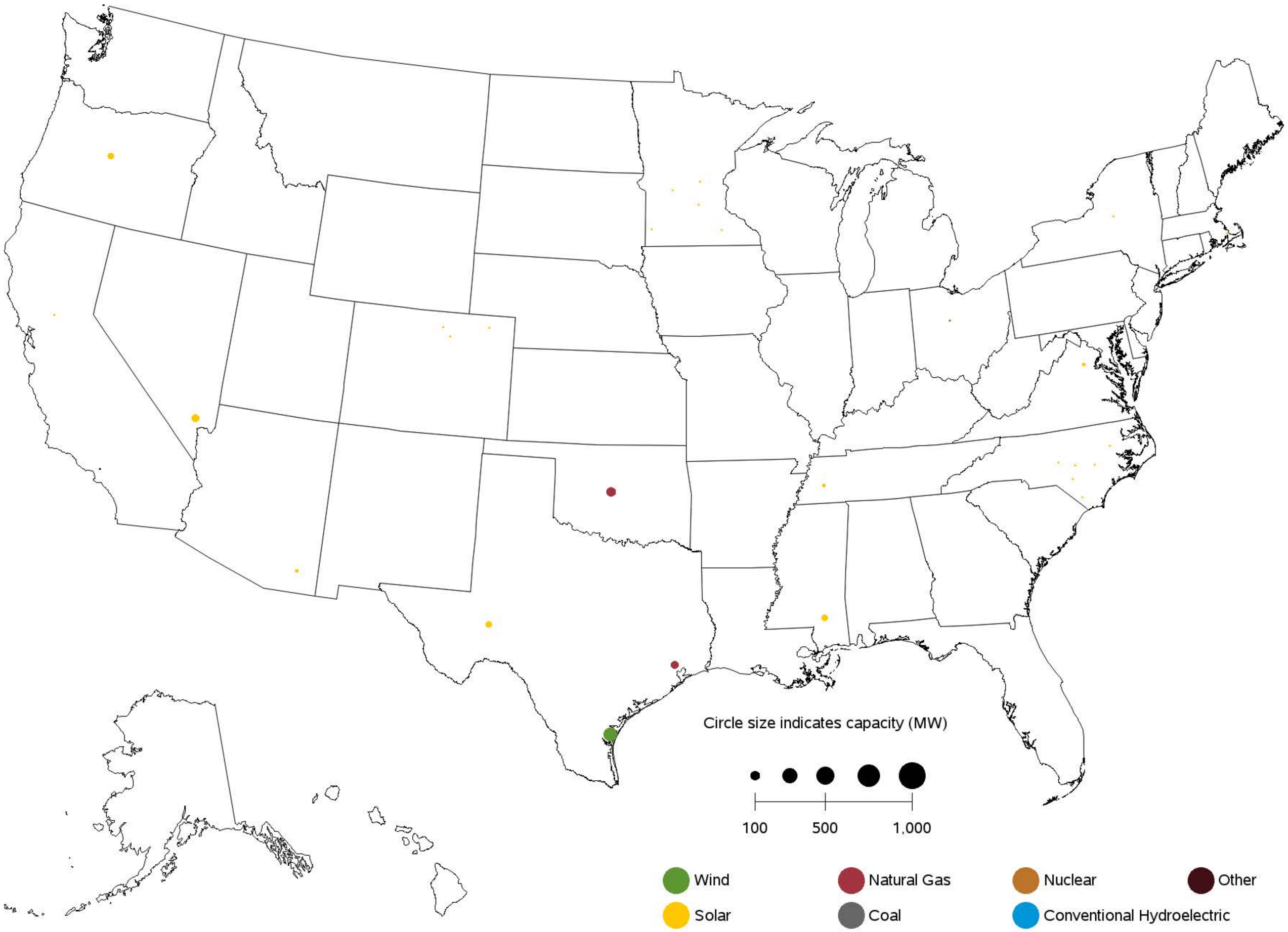
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.3%	38.2%	34.5%	25.1%	22.2%	69.7%	55.6%	73.9%
Year 2015								
January	101.3%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
Year 2016								
January	98.5%	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%	36.5%	16.8%	7.3%	75.4%	49.4%	79.7%
February	95.7%	47.8%	42.4%	19.8%	11.7%	71.6%	55.5%	77.9%
March	87.9%	54.1%	44.6%	27.8%	22.9%	67.7%	51.8%	74.9%
April	79.2%	53.9%	45.0%	31.0%	24.9%	67.9%	51.2%	78.6%
May	82.8%	56.8%	38.8%	34.1%	31.0%	70.6%	47.0%	74.0%
June	93.5%	57.1%	34.4%	35.7%	37.9%	72.6%	49.1%	75.2%
July	96.3%	46.1%	27.6%	33.7%	25.4%	71.3%	51.0%	78.0%
August	97.7%	37.9%	22.4%	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	89.1%	30.2%	41.6%	26.6%	24.1%	67.0%	52.4%	69.3%

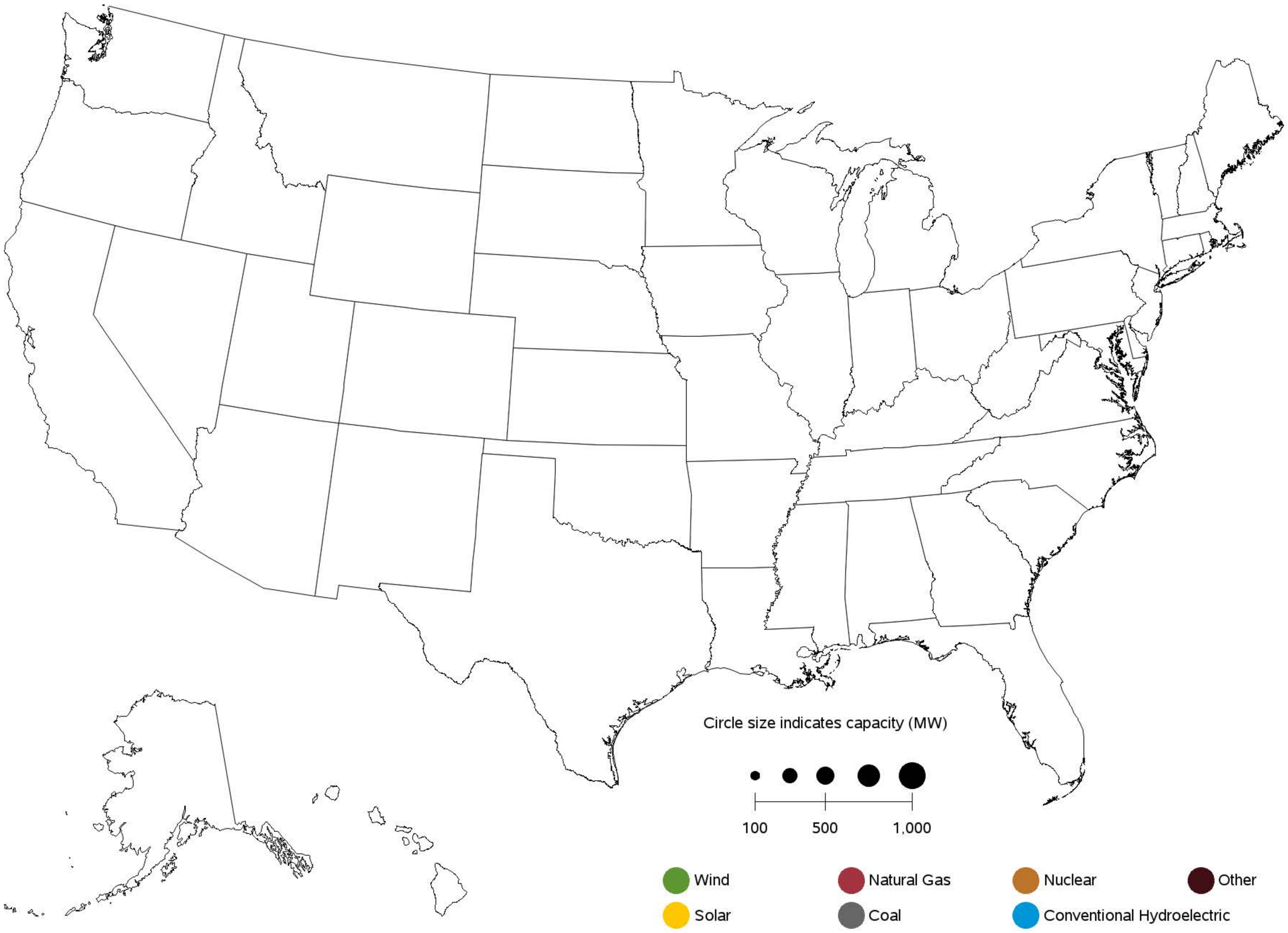
Values for 2016 and prior years are final. Values for 2017 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



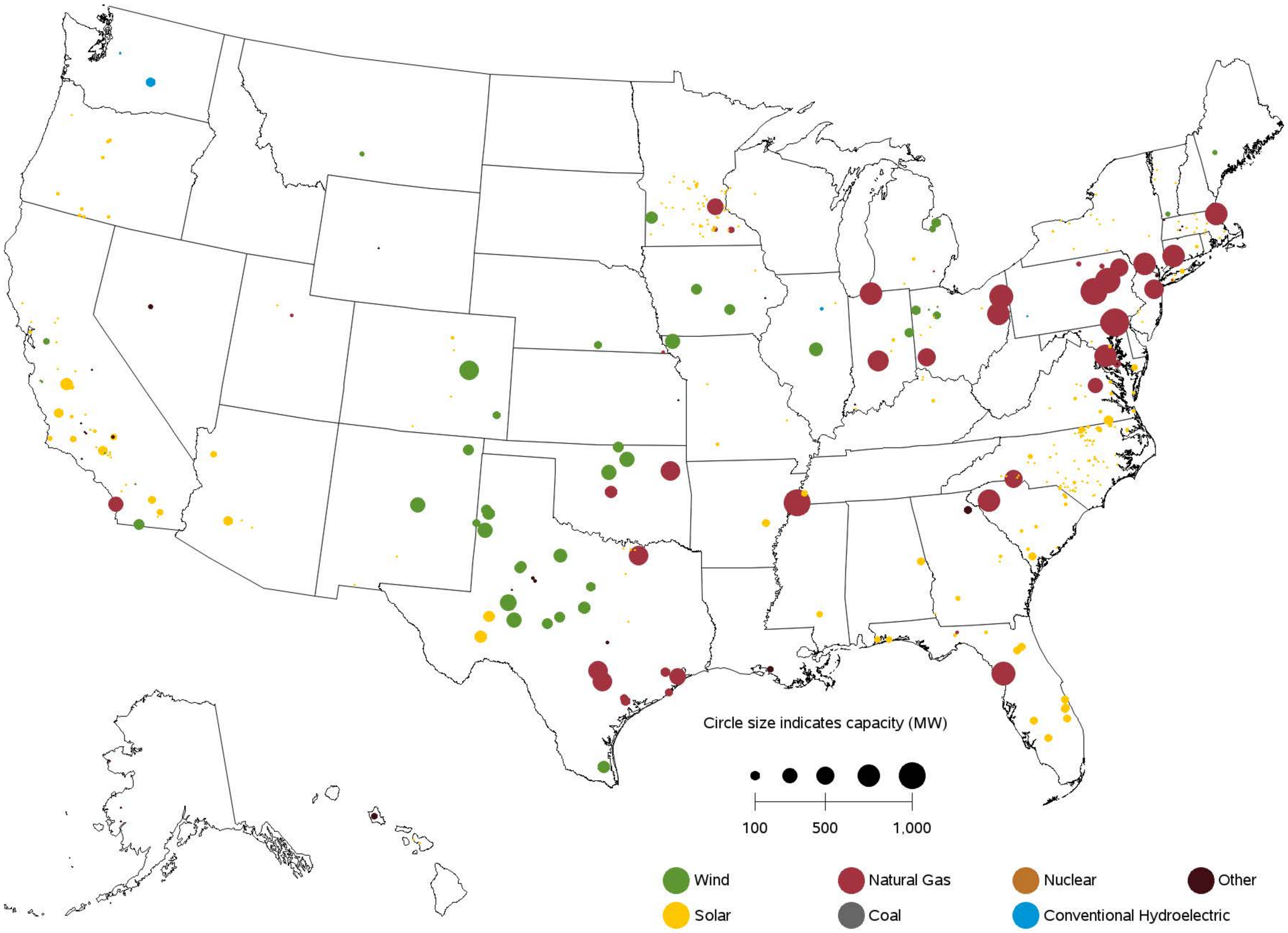
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



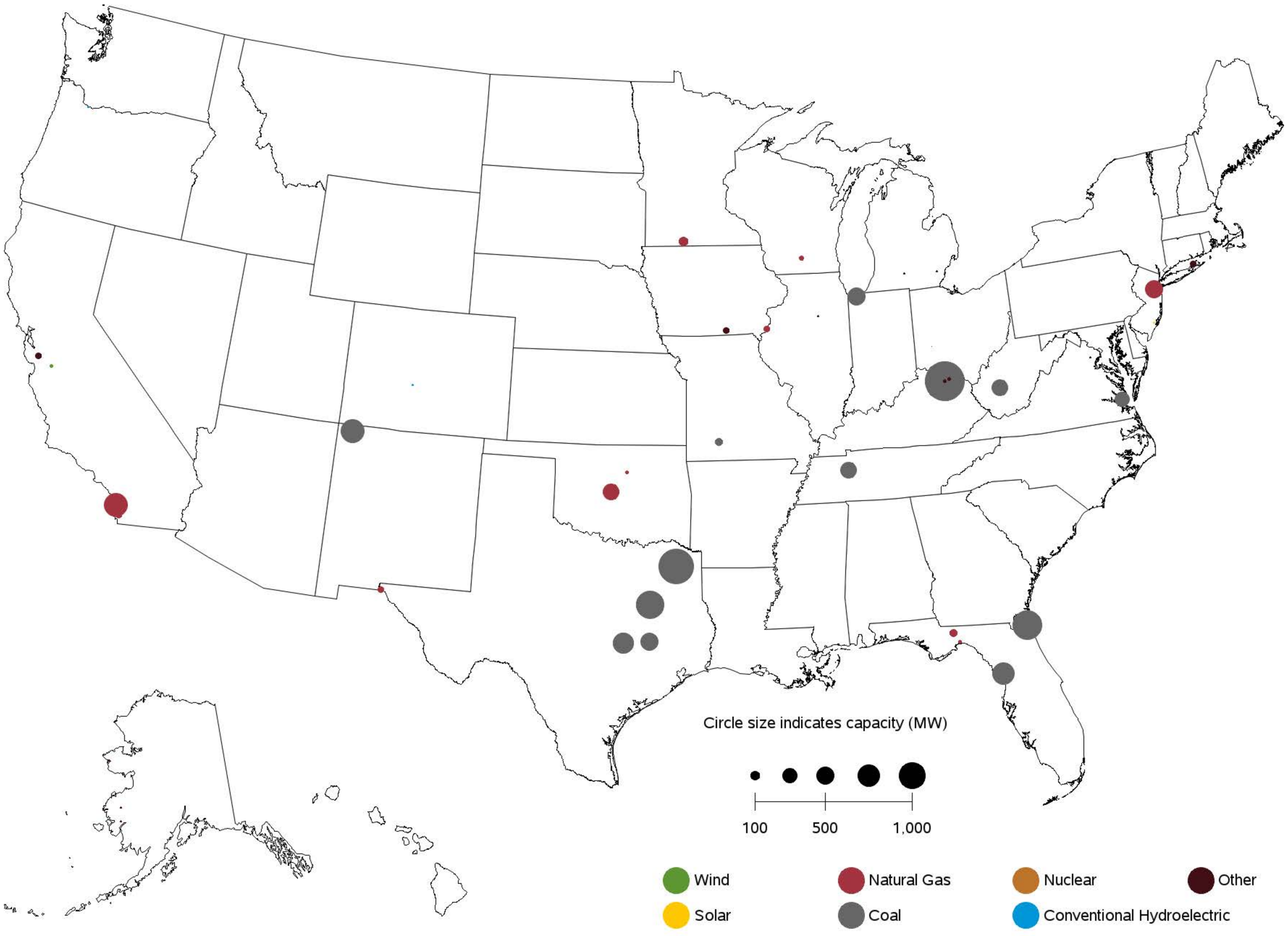
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from November 2017 to October 2018



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from November 2017 to October 2018



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

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

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

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

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, October 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**19**	**14**	**0**	**11**	**0**	**0**	**7**
Connecticut	0	26	0	6	0	0	36
Maine	21	23	0	100	0	0	10
Massachusetts	0	22	0	15	0	0	21
New Hampshire	0	25	0	0	0	0	16
Rhode Island	0	86	0	58	0	0	0
Vermont	0	30	0	0	0	0	16
Middle Atlantic	**2**	**12**	**76**	**6**	**10**	**0**	**2**
New Jersey	0	39	0	20	0	0	335
New York	0	16	0	8	0	0	1
Pennsylvania	2	13	193	4	14	0	11
East North Central	**1**	**3**	**17**	**4**	**5**	**0**	**11**
Illinois	0	12	0	22	0	0	32
Indiana	1	2	0	10	7	0	24
Michigan	3	5	0	2	0	0	23
Ohio	1	7	65	7	10	0	22
Wisconsin	1	16	0	4	0	0	17
West North Central	**1**	**7**	**0**	**15**	**0**	**0**	**9**
Iowa	2	10	0	9	0	0	31
Kansas	3	13	0	26	0	0	0
Minnesota	4	15	0	10	0	0	24
Missouri	0	5	0	59	0	0	15
Nebraska	5	60	0	31	0	0	24
North Dakota	0	8	0	23	0	0	20
South Dakota	0	45	0	33	0	0	14
South Atlantic	**0**	**4**	**3**	**2**	**18**	**0**	**6**
Delaware	0	45	0	36	21	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	38
Georgia	0	32	134	4	0	0	9
Maryland	0	9	0	26	0	0	3
North Carolina	0	7	0	3	0	0	8
South Carolina	0	33	0	6	0	0	15
Virginia	7	8	0	4	0	0	15
West Virginia	1	0	0	25	0	0	17
East South Central	**0**	**7**	**0**	**4**	**64**	**0**	**5**
Alabama	0	42	0	3	66	0	6
Kentucky	0	2	0	46	0	0	11
Mississippi	0	41	0	4	0	0	0
Tennessee	0	0	0	15	0	0	7
West South Central	**0**	**8**	**0**	**2**	**7**	**0**	**6**
Arkansas	0	3	0	10	0	0	9
Louisiana	0	45	0	3	12	0	15
Oklahoma	0	4	0	5	0	0	10
Texas	0	16	0	2	7	0	16
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	4
Colorado	0	12	0	3	0	0	22
Idaho	89	0	0	13	0	0	10
Montana	6	22	0	16	0	0	9
Nevada	0	0	0	0	0	0	2
New Mexico	0	13	0	3	0	0	70
Utah	0	2	0	6	0	0	32
Wyoming	4	2	0	6	0	0	28
Pacific Contiguous	**0**	**7**	**0**	**1**	**2**	**0**	**2**
California	0	7	0	1	3	0	7
Oregon	0	0	0	3	0	0	4
Washington	0	19	0	5	0	0	1
Pacific Noncontiguous	**16**	**1**	**0**	**14**	**0**	**0**	**20**
Alaska	53	3	0	14	0	0	22
Hawaii	0	1	0	0	0	0	24
U.S. Total	**0**	**1**	**6**	**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, October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**5**	**0**	**1**	**5**
Connecticut	0	0	0	34	11	0	0	3
Maine	0	0	0	82	6	0	0	20
Massachusetts	0	0	0	9	6	0	2	10
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	62	11	0	0	54
Vermont	0	0	0	25	11	0	0	10
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**2**
New Jersey	0	0	0	8	5	0	0	10
New York	0	0	0	18	3	0	2	3
Pennsylvania	0	0	0	28	4	0	0	1
East North Central	**0**	**0**	**0**	**10**	**2**	**0**	**3**	**1**
Illinois	0	0	0	28	3	0	0	2
Indiana	0	0	0	14	4	0	0	2
Michigan	0	0	0	22	4	0	12	1
Ohio	0	0	0	24	4	0	0	2
Wisconsin	0	0	0	51	6	0	36	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**6**	**1**
Iowa	0	0	0	77	3	0	0	2
Kansas	0	0	0	99	3	0	0	2
Minnesota	0	0	0	9	4	0	3	2
Missouri	0	0	0	29	5	0	0	4
Nebraska	0	0	0	55	5	0	0	3
North Dakota	0	0	0	0	3	0	51	1
South Dakota	0	0	0	195	7	0	0	6
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	35	25	0	0	34
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	6	3	0	11	2
Maryland	0	0	0	14	7	0	0	5
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	25	5	0	0	1
Virginia	0	0	0	15	7	0	0	2
West Virginia	0	0	0	0	8	0	0	2
East South Central	**0**	**0**	**0**	**10**	**3**	**0**	**5**	**1**
Alabama	0	0	0	20	5	0	0	1
Kentucky	0	0	0	0	17	0	0	5
Mississippi	0	0	0	7	4	0	0	3
Tennessee	0	0	0	21	7	0	33	2
West South Central	**0**	**0**	**0**	**4**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	15	6	0	0	3
Louisiana	0	0	0	0	5	0	3	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	3	1
Mountain	**0**	**8**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	0
Colorado	0	0	0	9	3	0	0	1
Idaho	0	33	0	11	6	0	0	6
Montana	0	0	0	47	8	0	0	4
Nevada	0	8	0	3	4	0	0	1
New Mexico	0	0	0	8	4	0	0	1
Utah	0	14	0	6	6	0	0	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	3	1
Oregon	0	19	0	16	4	0	0	2
Washington	0	0	0	0	3	0	0	1
Pacific Noncontiguous	**0**	**19**	**0**	**14**	**10**	**0**	**0**	**4**
Alaska	0	0	0	0	20	0	0	10
Hawaii	0	19	0	14	11	0	0	2
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**19**	**14**	**0**	**11**	**0**	**0**	**7**
Connecticut	0	26	0	6	0	0	36
Maine	21	23	0	100	0	0	10
Massachusetts	0	22	0	15	0	0	21
New Hampshire	0	25	0	0	0	0	16
Rhode Island	0	86	0	58	0	0	0
Vermont	0	30	0	0	0	0	16
Middle Atlantic	**2**	**12**	**76**	**6**	**10**	**0**	**2**
New Jersey	0	39	0	20	0	0	335
New York	0	16	0	8	0	0	1
Pennsylvania	2	13	193	4	14	0	11
East North Central	**1**	**3**	**17**	**4**	**5**	**0**	**11**
Illinois	0	12	0	22	0	0	32
Indiana	1	2	0	10	7	0	24
Michigan	3	5	0	2	0	0	23
Ohio	1	7	65	7	10	0	22
Wisconsin	1	16	0	4	0	0	17
West North Central	**1**	**7**	**0**	**15**	**0**	**0**	**9**
Iowa	2	10	0	9	0	0	31
Kansas	3	13	0	26	0	0	0
Minnesota	4	15	0	10	0	0	24
Missouri	0	5	0	59	0	0	15
Nebraska	5	60	0	31	0	0	24
North Dakota	0	8	0	23	0	0	20
South Dakota	0	45	0	33	0	0	14
South Atlantic	**0**	**4**	**3**	**2**	**18**	**0**	**6**
Delaware	0	45	0	36	21	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	38
Georgia	0	32	134	4	0	0	9
Maryland	0	9	0	26	0	0	3
North Carolina	0	7	0	3	0	0	8
South Carolina	0	33	0	6	0	0	15
Virginia	7	8	0	4	0	0	15
West Virginia	1	0	0	25	0	0	17
East South Central	**0**	**7**	**0**	**4**	**64**	**0**	**5**
Alabama	0	42	0	3	66	0	6
Kentucky	0	2	0	46	0	0	11
Mississippi	0	41	0	4	0	0	0
Tennessee	0	0	0	15	0	0	7
West South Central	**0**	**8**	**0**	**2**	**7**	**0**	**6**
Arkansas	0	3	0	10	0	0	9
Louisiana	0	45	0	3	12	0	15
Oklahoma	0	4	0	5	0	0	10
Texas	0	16	0	2	7	0	16
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	4
Colorado	0	12	0	3	0	0	22
Idaho	89	0	0	13	0	0	10
Montana	6	22	0	16	0	0	9
Nevada	0	0	0	0	0	0	2
New Mexico	0	13	0	3	0	0	70
Utah	0	2	0	6	0	0	32
Wyoming	4	2	0	6	0	0	28
Pacific Contiguous	**0**	**7**	**0**	**1**	**2**	**0**	**2**
California	0	7	0	1	3	0	7
Oregon	0	0	0	3	0	0	4
Washington	0	19	0	5	0	0	1
Pacific Noncontiguous	**16**	**1**	**0**	**14**	**0**	**0**	**20**
Alaska	53	3	0	14	0	0	22
Hawaii	0	1	0	0	0	0	24
U.S. Total	**0**	**1**	**6**	**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 October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**5**	**0**	**1**	**5**
Connecticut	0	0	0	34	11	0	0	3
Maine	0	0	0	82	6	0	0	20
Massachusetts	0	0	0	9	6	0	2	10
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	62	11	0	0	54
Vermont	0	0	0	25	11	0	0	10
Middle Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**1**	**2**
New Jersey	0	0	0	8	5	0	0	10
New York	0	0	0	18	3	0	2	3
Pennsylvania	0	0	0	28	4	0	0	1
East North Central	**0**	**0**	**0**	**10**	**2**	**0**	**3**	**1**
Illinois	0	0	0	28	3	0	0	2
Indiana	0	0	0	14	4	0	0	2
Michigan	0	0	0	22	4	0	12	1
Ohio	0	0	0	24	4	0	0	2
Wisconsin	0	0	0	51	6	0	36	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**6**	**1**
Iowa	0	0	0	77	3	0	0	2
Kansas	0	0	0	99	3	0	0	2
Minnesota	0	0	0	9	4	0	3	2
Missouri	0	0	0	29	5	0	0	4
Nebraska	0	0	0	55	5	0	0	3
North Dakota	0	0	0	0	3	0	51	1
South Dakota	0	0	0	195	7	0	0	6
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**1**
Delaware	0	0	0	35	25	0	0	34
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	6	3	0	11	2
Maryland	0	0	0	14	7	0	0	5
North Carolina	0	0	0	4	3	0	0	1
South Carolina	0	0	0	25	5	0	0	1
Virginia	0	0	0	15	7	0	0	2
West Virginia	0	0	0	0	8	0	0	2
East South Central	**0**	**0**	**0**	**10**	**3**	**0**	**5**	**1**
Alabama	0	0	0	20	5	0	0	1
Kentucky	0	0	0	0	17	0	0	5
Mississippi	0	0	0	7	4	0	0	3
Tennessee	0	0	0	21	7	0	33	2
West South Central	**0**	**0**	**0**	**4**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	15	6	0	0	3
Louisiana	0	0	0	0	5	0	3	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	3	1
Mountain	**0**	**8**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	0
Colorado	0	0	0	9	3	0	0	1
Idaho	0	33	0	11	6	0	0	6
Montana	0	0	0	47	8	0	0	4
Nevada	0	8	0	3	4	0	0	1
New Mexico	0	0	0	8	4	0	0	1
Utah	0	14	0	6	6	0	0	1
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	3	0	2	2	0	3	1
Oregon	0	19	0	16	4	0	0	2
Washington	0	0	0	0	3	0	0	1
Pacific Noncontiguous	**0**	**19**	**0**	**14**	**10**	**0**	**0**	**4**
Alaska	0	0	0	0	20	0	0	10
Hawaii	0	19	0	14	11	0	0	2
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**1**	**0**

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

Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, October 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	1	0	.	0
Maine	3	3	0	.	2
Massachusetts	1	1	1	.	0
New Hampshire	1	0	0	.	1
Rhode Island	1	0	0	.	1
Vermont	4	5	113	.	3
Middle Atlantic	**0**	**0**	**1**	**.**	**0**
New Jersey	0	0	2	.	0
New York	0	0	1	.	0
Pennsylvania	2	2	0	.	1
East North Central	**1**	**1**	**3**	**.**	**1**
Illinois	3	6	0	.	4
Indiana	4	3	0	.	3
Michigan	2	8	40	.	4
Ohio	3	1	5	.	1
Wisconsin	4	6	1	.	3
West North Central	**1**	**1**	**5**	**.**	**1**
Iowa	4	2	25	.	2
Kansas	7	7	0	.	5
Minnesota	4	4	5	.	3
Missouri	1	1	0	.	1
Nebraska	12	26	30	.	11
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**3**	**.**	**1**
Delaware	2	3	22	.	2
District of Columbia	0	0	0	.	0
Florida	3	7	5	.	3
Georgia	59	141	0	.	61
Maryland	0	2	4	.	1
North Carolina	6	1	0	.	3
South Carolina	2	6	0	.	2
Virginia	7	8	20	.	5
West Virginia	0	0	0	.	0
East South Central	**5**	**11**	**0**	**.**	**6**
Alabama	0	0	0	.	0
Kentucky	6	12	0	.	6
Mississippi	9	31	0	.	19
Tennessee	0	0	0	.	0
West South Central	**3**	**4**	**0**	**.**	**2**
Arkansas	19	4	0	.	12
Louisiana	2	3	0	.	2
Oklahoma	16	3	0	.	13
Texas	6	4	0	.	4
Mountain	**0**	**0**	**0**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	2	1	13	.	1
Idaho	3	2	0	.	2
Montana	9	4	0	.	7
Nevada	0	0	0	.	0
New Mexico	3	1	0	.	2
Utah	1	1	0	.	1
Wyoming	28	12	0	.	18
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	2	8	.	1
Washington	2	6	56	.	2
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	2	4	0	.	2
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**14**	**0**	**101**	**0**	**0**	**18**
Connecticut	0	55	0	0	0	0	66
Maine	0	0	0	0	0	0	0
Massachusetts	0	18	0	126	0	0	51
New Hampshire	0	26	0	0	0	0	30
Rhode Island	0	0	0	0	0	0	0
Vermont	0	30	0	0	0	0	26
Middle Atlantic	**0**	**27**	**0**	**32**	**0**	**0**	**1**
New Jersey	0	210	0	227	0	0	0
New York	0	27	0	32	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**3**	**0**	**7**	**8**	**0**	**12**
Illinois	0	41	0	80	0	0	42
Indiana	1	2	0	12	99	0	24
Michigan	3	5	0	7	0	0	25
Ohio	4	10	0	41	0	0	28
Wisconsin	1	16	0	4	0	0	19
West North Central	**1**	**7**	**0**	**15**	**0**	**0**	**9**
Iowa	2	9	0	11	0	0	32
Kansas	3	13	0	26	0	0	0
Minnesota	4	16	0	11	0	0	32
Missouri	0	5	0	66	0	0	15
Nebraska	5	60	0	31	0	0	24
North Dakota	0	8	0	24	0	0	20
South Dakota	0	45	0	33	0	0	14
South Atlantic	**0**	**5**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	38
Georgia	0	28	0	5	0	0	9
Maryland	0	11	0	0	0	0	0
North Carolina	0	5	0	4	0	0	8
South Carolina	0	38	0	8	0	0	15
Virginia	8	20	0	6	0	0	16
West Virginia	0	0	0	0	0	0	30
East South Central	**0**	**3**	**0**	**5**	**0**	**0**	**5**
Alabama	0	27	0	5	0	0	6
Kentucky	0	2	0	52	0	0	11
Mississippi	0	45	0	5	0	0	0
Tennessee	0	0	0	16	0	0	7
West South Central	**0**	**11**	**0**	**5**	**0**	**0**	**7**
Arkansas	0	5	0	26	0	0	9
Louisiana	0	45	0	4	0	0	0
Oklahoma	0	4	0	8	0	0	10
Texas	0	26	0	8	0	0	17
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	4
Colorado	0	12	0	2	0	0	23
Idaho	0	0	0	18	0	0	10
Montana	0	337	0	24	0	0	9
Nevada	0	0	0	0	0	0	0
New Mexico	0	13	0	4	0	0	70
Utah	0	2	0	8	0	0	32
Wyoming	4	2	0	23	0	0	29
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**2**
California	0	8	0	2	0	0	6
Oregon	0	0	0	7	0	0	3
Washington	0	56	0	4	0	0	1
Pacific Noncontiguous	**107**	**1**	**0**	**14**	**0**	**0**	**23**
Alaska	107	3	0	14	0	0	23
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**2**	**8**	**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, October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**31**	**6**	**0**	**0**	**23**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	56	35	0	0	82
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	40	9	0	0	11
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**7**
New Jersey	0	0	0	27	27	0	0	102
New York	0	0	0	0	0	0	0	7
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**17**	**6**	**0**	**2**	**1**
Illinois	0	0	0	0	29	0	0	37
Indiana	0	0	0	25	16	0	0	2
Michigan	0	0	0	22	7	0	0	2
Ohio	0	0	0	81	61	0	0	7
Wisconsin	0	0	0	0	11	0	19	1
West North Central	**0**	**0**	**0**	**54**	**3**	**0**	**11**	**1**
Iowa	0	0	0	77	3	0	0	2
Kansas	0	0	0	0	7	0	0	3
Minnesota	0	0	0	129	6	0	0	3
Missouri	0	0	0	0	50	0	0	4
Nebraska	0	0	0	0	20	0	0	4
North Dakota	0	0	0	0	5	0	51	1
South Dakota	0	0	0	0	11	0	0	8
South Atlantic	**0**	**0**	**0**	**6**	**8**	**0**	**0**	**1**
Delaware	0	0	0	96	96	0	0	15
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	14	14	0	0	2
Maryland	0	0	0	85	85	0	0	48
North Carolina	0	0	0	12	12	0	0	1
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	20	17	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**33**	**25**	**0**	**0**	**1**
Alabama	0	0	0	46	46	0	0	1
Kentucky	0	0	0	0	30	0	0	5
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	2
West South Central	**0**	**0**	**0**	**63**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	195	195	0	0	4
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	9	0	0	4
Texas	0	0	0	113	32	0	0	4
Mountain	**0**	**19**	**0**	**8**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	117	40	0	0	1
Idaho	0	0	0	0	101	0	0	9
Montana	0	0	0	0	22	0	0	8
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	17	17	0	0	1
Utah	0	19	0	0	19	0	0	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	5	0	0	2
Oregon	0	0	0	103	5	0	0	3
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**19**	**0**	**0**	**5**
Alaska	0	0	0	0	32	0	0	11
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**5**	**0**	**4**	**2**	**0**	**3**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**14**	**0**	**101**	**0**	**0**	**18**
Connecticut	0	55	0	0	0	0	66
Maine	0	0	0	0	0	0	0
Massachusetts	0	18	0	126	0	0	51
New Hampshire	0	26	0	0	0	0	30
Rhode Island	0	0	0	0	0	0	0
Vermont	0	30	0	0	0	0	26
Middle Atlantic	**0**	**27**	**0**	**32**	**0**	**0**	**1**
New Jersey	0	210	0	227	0	0	0
New York	0	27	0	32	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**3**	**0**	**7**	**8**	**0**	**12**
Illinois	0	41	0	80	0	0	42
Indiana	1	2	0	12	99	0	24
Michigan	3	5	0	7	0	0	25
Ohio	4	10	0	41	0	0	28
Wisconsin	1	16	0	4	0	0	19
West North Central	**1**	**7**	**0**	**15**	**0**	**0**	**9**
Iowa	2	9	0	11	0	0	32
Kansas	3	13	0	26	0	0	0
Minnesota	4	16	0	11	0	0	32
Missouri	0	5	0	66	0	0	15
Nebraska	5	60	0	31	0	0	24
North Dakota	0	8	0	24	0	0	20
South Dakota	0	45	0	33	0	0	14
South Atlantic	**0**	**5**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	38
Georgia	0	28	0	5	0	0	9
Maryland	0	11	0	0	0	0	0
North Carolina	0	5	0	4	0	0	8
South Carolina	0	38	0	8	0	0	15
Virginia	8	20	0	6	0	0	16
West Virginia	0	0	0	0	0	0	30
East South Central	**0**	**3**	**0**	**5**	**0**	**0**	**5**
Alabama	0	27	0	5	0	0	6
Kentucky	0	2	0	52	0	0	11
Mississippi	0	45	0	5	0	0	0
Tennessee	0	0	0	16	0	0	7
West South Central	**0**	**11**	**0**	**5**	**0**	**0**	**7**
Arkansas	0	5	0	26	0	0	9
Louisiana	0	45	0	4	0	0	0
Oklahoma	0	4	0	8	0	0	10
Texas	0	26	0	8	0	0	17
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**5**
Arizona	0	1	0	1	0	0	4
Colorado	0	12	0	2	0	0	23
Idaho	0	0	0	18	0	0	10
Montana	0	337	0	24	0	0	9
Nevada	0	0	0	0	0	0	0
New Mexico	0	13	0	4	0	0	70
Utah	0	2	0	8	0	0	32
Wyoming	4	2	0	23	0	0	29
Pacific Contiguous	**0**	**6**	**0**	**2**	**0**	**0**	**2**
California	0	8	0	2	0	0	6
Oregon	0	0	0	7	0	0	3
Washington	0	56	0	4	0	0	1
Pacific Noncontiguous	**107**	**1**	**0**	**14**	**0**	**0**	**23**
Alaska	107	3	0	14	0	0	23
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**2**	**8**	**0**	**2**

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

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

Electric Utilities by Census Division and State, Year-to-Date through October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**31**	**6**	**0**	**0**	**23**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	56	35	0	0	82
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	40	9	0	0	11
Middle Atlantic	**0**	**0**	**0**	**27**	**27**	**0**	**0**	**7**
New Jersey	0	0	0	27	27	0	0	102
New York	0	0	0	0	0	0	0	7
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**17**	**6**	**0**	**2**	**1**
Illinois	0	0	0	0	29	0	0	37
Indiana	0	0	0	25	16	0	0	2
Michigan	0	0	0	22	7	0	0	2
Ohio	0	0	0	81	61	0	0	7
Wisconsin	0	0	0	0	11	0	19	1
West North Central	**0**	**0**	**0**	**54**	**3**	**0**	**11**	**1**
Iowa	0	0	0	77	3	0	0	2
Kansas	0	0	0	0	7	0	0	3
Minnesota	0	0	0	129	6	0	0	3
Missouri	0	0	0	0	50	0	0	4
Nebraska	0	0	0	0	20	0	0	4
North Dakota	0	0	0	0	5	0	51	1
South Dakota	0	0	0	0	11	0	0	8
South Atlantic	**0**	**0**	**0**	**6**	**8**	**0**	**0**	**1**
Delaware	0	0	0	96	96	0	0	15
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	14	14	0	0	2
Maryland	0	0	0	85	85	0	0	48
North Carolina	0	0	0	12	12	0	0	1
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	20	17	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**33**	**25**	**0**	**0**	**1**
Alabama	0	0	0	46	46	0	0	1
Kentucky	0	0	0	0	30	0	0	5
Mississippi	0	0	0	0	0	0	0	3
Tennessee	0	0	0	0	0	0	0	2
West South Central	**0**	**0**	**0**	**63**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	195	195	0	0	4
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	9	0	0	4
Texas	0	0	0	113	32	0	0	4
Mountain	**0**	**19**	**0**	**8**	**6**	**0**	**0**	**1**
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	117	40	0	0	1
Idaho	0	0	0	0	101	0	0	9
Montana	0	0	0	0	22	0	0	8
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	17	17	0	0	1
Utah	0	19	0	0	19	0	0	1
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**1**
California	0	0	0	11	5	0	0	2
Oregon	0	0	0	103	5	0	0	3
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**19**	**0**	**0**	**5**
Alaska	0	0	0	0	32	0	0	11
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**5**	**0**	**4**	**2**	**0**	**3**	**0**

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

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

Independent Power Producers by Census Division and State, October 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**11**	**0**	**0**	**8**
Connecticut	0	28	0	7	0	0	38
Maine	0	12	0	122	0	0	10
Massachusetts	0	50	0	16	0	0	23
New Hampshire	0	1,008	0	0	0	0	19
Rhode Island	0	87	0	59	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**12**	**0**	**6**	**0**	**0**	**8**
New Jersey	0	40	0	21	0	0	335
New York	0	23	0	8	0	0	9
Pennsylvania	2	13	0	4	0	0	11
East North Central	**0**	**7**	**65**	**6**	**4**	**0**	**29**
Illinois	0	9	0	23	0	0	43
Indiana	0	0	0	7	0	0	0
Michigan	0	0	0	1	0	0	89
Ohio	0	9	65	6	13	0	37
Wisconsin	0	0	0	0	0	0	85
West North Central	**0**	**42**	**0**	**74**	**0**	**0**	**49**
Iowa	0	96	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	47	0	20	0	0	63
Missouri	0	0	0	132	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**6**	**0**	**7**	**0**	**0**	**10**
Delaware	0	47	0	43	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	55	0	17	0	0	0
Georgia	0	81	0	10	0	0	71
Maryland	0	10	0	29	0	0	3
North Carolina	0	92	0	12	0	0	66
South Carolina	0	0	0	4	0	0	66
Virginia	0	2	0	4	0	0	46
West Virginia	6	0	0	34	0	0	27
East South Central	**0**	**9**	**0**	**3**	**0**	**0**	**158**
Alabama	0	9	0	3	0	0	0
Kentucky	0	0	0	0	0	0	158
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**13**	**0**	**2**	**5**	**0**	**14**
Arkansas	0	0	0	3	0	0	47
Louisiana	0	0	0	9	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	2	5	0	0
Mountain	**5**	**7**	**0**	**2**	**0**	**0**	**25**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	13	0	0	63
Idaho	0	0	0	19	0	0	31
Montana	6	15	0	7	0	0	77
Nevada	0	0	0	0	0	0	52
New Mexico	0	0	0	6	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**7**	**0**	**1**	**0**	**0**	**29**
California	0	0	0	1	0	0	38
Oregon	0	0	0	0	0	0	54
Washington	0	8	0	13	0	0	43
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	31	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**2**	**32**	**2**	**3**	**0**	**6**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**6**	**0**	**1**	**5**
Connecticut	0	0	0	35	11	0	0	4
Maine	0	0	0	82	7	0	0	25
Massachusetts	0	0	0	9	6	0	2	10
New Hampshire	0	0	0	0	15	0	0	2
Rhode Island	0	0	0	62	11	0	0	55
Vermont	0	0	0	31	24	0	0	15
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**2**
New Jersey	0	0	0	9	5	0	0	10
New York	0	0	0	18	4	0	0	3
Pennsylvania	0	0	0	31	4	0	0	1
East North Central	**0**	**0**	**0**	**13**	**2**	**0**	**18**	**1**
Illinois	0	0	0	29	3	0	0	2
Indiana	0	0	0	18	4	0	0	3
Michigan	0	0	0	0	5	0	30	1
Ohio	0	0	0	26	4	0	0	2
Wisconsin	0	0	0	51	7	0	0	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**4**
Iowa	0	0	0	0	4	0	0	3
Kansas	0	0	0	99	3	0	0	3
Minnesota	0	0	0	9	4	0	0	4
Missouri	0	0	0	32	6	0	0	52
Nebraska	0	0	0	55	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	195	8	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**3**
Delaware	0	0	0	38	30	0	0	42
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	17	4	0	2	11
Georgia	0	0	0	6	5	0	0	9
Maryland	0	0	0	15	7	0	0	5
North Carolina	0	0	0	4	3	0	0	5
South Carolina	0	0	0	25	23	0	0	5
Virginia	0	0	0	22	13	0	0	3
West Virginia	0	0	0	0	8	0	0	7
East South Central	**0**	**0**	**0**	**11**	**10**	**0**	**0**	**3**
Alabama	0	0	0	23	16	0	0	3
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	7	8	0	0	0
Tennessee	0	0	0	21	18	0	0	17
West South Central	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	22	0	0	2
Louisiana	0	0	0	0	37	0	0	5
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**8**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	3	0	0	3
Idaho	0	33	0	11	6	0	0	7
Montana	0	0	0	47	8	0	0	5
Nevada	0	8	0	3	4	0	0	3
New Mexico	0	0	0	9	4	0	0	3
Utah	0	19	0	6	7	0	0	6
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	19	0	16	5	0	0	2
Washington	0	0	0	0	6	0	0	3
Pacific Noncontiguous	**0**	**19**	**0**	**18**	**13**	**0**	**0**	**4**
Alaska	0	0	0	0	42	0	0	26
Hawaii	0	19	0	18	14	0	0	4
U.S. Total	**0**	**4**	**0**	**2**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**21**	**0**	**11**	**0**	**0**	**8**
Connecticut	0	28	0	7	0	0	38
Maine	0	12	0	122	0	0	10
Massachusetts	0	50	0	16	0	0	23
New Hampshire	0	1,008	0	0	0	0	19
Rhode Island	0	87	0	59	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**12**	**0**	**6**	**0**	**0**	**8**
New Jersey	0	40	0	21	0	0	335
New York	0	23	0	8	0	0	9
Pennsylvania	2	13	0	4	0	0	11
East North Central	**0**	**7**	**65**	**6**	**4**	**0**	**29**
Illinois	0	9	0	23	0	0	43
Indiana	0	0	0	7	0	0	0
Michigan	0	0	0	1	0	0	89
Ohio	0	9	65	6	13	0	37
Wisconsin	0	0	0	0	0	0	85
West North Central	**0**	**42**	**0**	**74**	**0**	**0**	**49**
Iowa	0	96	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	47	0	20	0	0	63
Missouri	0	0	0	132	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**6**	**0**	**7**	**0**	**0**	**10**
Delaware	0	47	0	43	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	55	0	17	0	0	0
Georgia	0	81	0	10	0	0	71
Maryland	0	10	0	29	0	0	3
North Carolina	0	92	0	12	0	0	66
South Carolina	0	0	0	4	0	0	66
Virginia	0	2	0	4	0	0	46
West Virginia	6	0	0	34	0	0	27
East South Central	**0**	**9**	**0**	**3**	**0**	**0**	**158**
Alabama	0	9	0	3	0	0	0
Kentucky	0	0	0	0	0	0	158
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**13**	**0**	**2**	**5**	**0**	**14**
Arkansas	0	0	0	3	0	0	47
Louisiana	0	0	0	9	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	2	5	0	0
Mountain	**5**	**7**	**0**	**2**	**0**	**0**	**25**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	13	0	0	63
Idaho	0	0	0	19	0	0	31
Montana	6	15	0	7	0	0	77
Nevada	0	0	0	0	0	0	52
New Mexico	0	0	0	6	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**7**	**0**	**1**	**0**	**0**	**29**
California	0	0	0	1	0	0	38
Oregon	0	0	0	0	0	0	54
Washington	0	8	0	13	0	0	43
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	31	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**0**	**2**	**32**	**2**	**3**	**0**	**6**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**8**	**6**	**0**	**1**	**5**
Connecticut	0	0	0	35	11	0	0	4
Maine	0	0	0	82	7	0	0	25
Massachusetts	0	0	0	9	6	0	2	10
New Hampshire	0	0	0	0	15	0	0	2
Rhode Island	0	0	0	62	11	0	0	55
Vermont	0	0	0	31	24	0	0	15
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**0**	**2**
New Jersey	0	0	0	9	5	0	0	10
New York	0	0	0	18	4	0	0	3
Pennsylvania	0	0	0	31	4	0	0	1
East North Central	**0**	**0**	**0**	**13**	**2**	**0**	**18**	**1**
Illinois	0	0	0	29	3	0	0	2
Indiana	0	0	0	18	4	0	0	3
Michigan	0	0	0	0	5	0	30	1
Ohio	0	0	0	26	4	0	0	2
Wisconsin	0	0	0	51	7	0	0	1
West North Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**4**
Iowa	0	0	0	0	4	0	0	3
Kansas	0	0	0	99	3	0	0	3
Minnesota	0	0	0	9	4	0	0	4
Missouri	0	0	0	32	6	0	0	52
Nebraska	0	0	0	55	5	0	0	5
North Dakota	0	0	0	0	4	0	0	4
South Dakota	0	0	0	195	8	0	0	8
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**3**
Delaware	0	0	0	38	30	0	0	42
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	17	4	0	2	11
Georgia	0	0	0	6	5	0	0	9
Maryland	0	0	0	15	7	0	0	5
North Carolina	0	0	0	4	3	0	0	5
South Carolina	0	0	0	25	23	0	0	5
Virginia	0	0	0	22	13	0	0	3
West Virginia	0	0	0	0	8	0	0	7
East South Central	**0**	**0**	**0**	**11**	**10**	**0**	**0**	**3**
Alabama	0	0	0	23	16	0	0	3
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	7	8	0	0	0
Tennessee	0	0	0	21	18	0	0	17
West South Central	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	22	0	0	2
Louisiana	0	0	0	0	37	0	0	5
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	4	2	0	0	1
Mountain	**0**	**8**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	9	3	0	0	3
Idaho	0	33	0	11	6	0	0	7
Montana	0	0	0	47	8	0	0	5
Nevada	0	8	0	3	4	0	0	3
New Mexico	0	0	0	9	4	0	0	3
Utah	0	19	0	6	7	0	0	6
Wyoming	0	0	0	0	8	0	0	6
Pacific Contiguous	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	3	0	2	2	0	0	1
Oregon	0	19	0	16	5	0	0	2
Washington	0	0	0	0	6	0	0	3
Pacific Noncontiguous	**0**	**19**	**0**	**18**	**13**	**0**	**0**	**4**
Alaska	0	0	0	0	42	0	0	26
Hawaii	0	19	0	18	14	0	0	4
U.S. Total	**0**	**4**	**0**	**2**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, October 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**30**	**0**	**19**	**0**	**0**	**0**
Connecticut	0	1,654	0	27	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	48	0	31	0	0	0
New Hampshire	0	5	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**	**59**	**0**	**18**	**0**	**0**	**0**
New Jersey	0	0	0	23	0	0	0
New York	0	75	0	25	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**25**	**25**	**0**	**9**	**0**	**0**	**0**
Illinois	90	411	0	36	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	6	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	19	0	0	0
West North Central	**0**	**48**	**0**	**1**	**0**	**0**	**0**
Iowa	0	0	0	1	0	0	0
Minnesota	0	56	0	4	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	1,076	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	13	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	34	0	0	0
West South Central	**0**	**24**	**0**	**37**	**0**	**0**	**571**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	70	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	42	0	0	571
Mountain	**0**	**0**	**0**	**8**	**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	30	0	0	0
Utah	0	0	0	7	0	0	0
Pacific Contiguous	**0**	**26**	**0**	**2**	**0**	**0**	**0**
California	0	36	0	2	0	0	0
Oregon	0	0	0	20	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**35**	**15**	**0**	**0**	**0**	**0**	**68**
Alaska	35	29	0	0	0	0	68
Hawaii	0	0	0	0	0	0	0
U.S. Total	**14**	**11**	**0**	**5**	**0**	**0**	**58**

Displayed values of zero may 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, October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**72**	**2**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	27
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	72	9	0	0	27
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**	**20**	**5**	**0**	**4**	**8**
New Jersey	0	0	0	20	10	0	0	8
New York	0	0	0	101	5	0	8	14
Pennsylvania	0	0	0	93	8	0	0	4
East North Central	**0**	**0**	**0**	**153**	**5**	**0**	**0**	**6**
Illinois	0	0	0	0	151	0	0	33
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	4
Ohio	0	0	0	153	37	0	0	2
Wisconsin	0	0	0	0	19	0	0	14
West North Central	**0**	**0**	**0**	**0**	**22**	**0**	**44**	**7**
Iowa	0	0	0	0	29	0	0	5
Kansas	0	0	0	0	215	0	0	215
Minnesota	0	0	0	0	42	0	44	16
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,076
South Atlantic	**0**	**0**	**0**	**22**	**8**	**0**	**0**	**3**
Delaware	0	0	0	194	65	0	0	65
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	138	27	0	0	19
Georgia	0	0	0	141	141	0	0	80
Maryland	0	0	0	102	39	0	0	2
North Carolina	0	0	0	24	22	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	3	0	0	1
East South Central	**0**	**0**	**0**	**113**	**113**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	33
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**32**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	70
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	35
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**8**
Arizona	0	0	0	56	56	0	0	8
Colorado	0	0	0	62	62	0	0	40
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	33	33	0	0	18
New Mexico	0	0	0	0	332	0	0	31
Utah	0	0	0	0	0	0	0	6
Pacific Contiguous	**0**	**0**	**0**	**23**	**6**	**0**	**0**	**2**
California	0	0	0	23	7	0	0	2
Oregon	0	0	0	0	31	0	0	17
Washington	0	0	0	0	54	0	0	22
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12**
Alaska	0	0	0	0	0	0	0	32
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**3**	**0**	**2**	**3**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**30**	**0**	**19**	**0**	**0**	**0**
Connecticut	0	1,654	0	27	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	48	0	31	0	0	0
New Hampshire	0	5	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**	**59**	**0**	**18**	**0**	**0**	**0**
New Jersey	0	0	0	23	0	0	0
New York	0	75	0	25	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**25**	**25**	**0**	**9**	**0**	**0**	**0**
Illinois	90	411	0	36	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	6	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	19	0	0	0
West North Central	**0**	**48**	**0**	**1**	**0**	**0**	**0**
Iowa	0	0	0	1	0	0	0
Minnesota	0	56	0	4	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	1,076	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	13	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	34	0	0	0
West South Central	**0**	**24**	**0**	**37**	**0**	**0**	**571**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	70	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	24	0	42	0	0	571
Mountain	**0**	**0**	**0**	**8**	**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	30	0	0	0
Utah	0	0	0	7	0	0	0
Pacific Contiguous	**0**	**26**	**0**	**2**	**0**	**0**	**0**
California	0	36	0	2	0	0	0
Oregon	0	0	0	20	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**35**	**15**	**0**	**0**	**0**	**0**	**68**
Alaska	35	29	0	0	0	0	68
Hawaii	0	0	0	0	0	0	0
U.S. Total	**14**	**11**	**0**	**5**	**0**	**0**	**58**

Displayed values of zero may 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 October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**72**	**2**	**0**	**0**	**14**
Connecticut	0	0	0	0	0	0	0	27
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	72	9	0	0	27
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**	**20**	**5**	**0**	**4**	**8**
New Jersey	0	0	0	20	10	0	0	8
New York	0	0	0	101	5	0	8	14
Pennsylvania	0	0	0	93	8	0	0	4
East North Central	**0**	**0**	**0**	**153**	**5**	**0**	**0**	**6**
Illinois	0	0	0	0	151	0	0	33
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	4
Ohio	0	0	0	153	37	0	0	2
Wisconsin	0	0	0	0	19	0	0	14
West North Central	**0**	**0**	**0**	**0**	**22**	**0**	**44**	**7**
Iowa	0	0	0	0	29	0	0	5
Kansas	0	0	0	0	215	0	0	215
Minnesota	0	0	0	0	42	0	44	16
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	1,076
South Atlantic	**0**	**0**	**0**	**22**	**8**	**0**	**0**	**3**
Delaware	0	0	0	194	65	0	0	65
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	138	27	0	0	19
Georgia	0	0	0	141	141	0	0	80
Maryland	0	0	0	102	39	0	0	2
North Carolina	0	0	0	24	22	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	3	0	0	1
East South Central	**0**	**0**	**0**	**113**	**113**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	33
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**32**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	70
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	35
Mountain	**0**	**0**	**0**	**26**	**22**	**0**	**0**	**8**
Arizona	0	0	0	56	56	0	0	8
Colorado	0	0	0	62	62	0	0	40
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	33	33	0	0	18
New Mexico	0	0	0	0	332	0	0	31
Utah	0	0	0	0	0	0	0	6
Pacific Contiguous	**0**	**0**	**0**	**23**	**6**	**0**	**0**	**2**
California	0	0	0	23	7	0	0	2
Oregon	0	0	0	0	31	0	0	17
Washington	0	0	0	0	54	0	0	22
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12**
Alaska	0	0	0	0	0	0	0	32
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**11**	**3**	**0**	**2**	**3**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**141**	**88**	**0**	**15**	**0**	**0**	**26**
Connecticut	0	0	0	19	0	0	0
Maine	141	88	0	38	0	0	26
Massachusetts	0	0	0	12	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**13**	**10**	**76**	**12**	**10**	**0**	**35**
New Jersey	0	0	0	13	0	0	0
New York	0	0	0	16	0	0	35
Pennsylvania	26	144	193	18	14	0	0
East North Central	**5**	**6**	**0**	**7**	**6**	**0**	**28**
Illinois	5	0	0	20	0	0	0
Indiana	0	1	0	9	7	0	0
Michigan	58	937	0	14	0	0	57
Ohio	69	0	0	23	0	0	0
Wisconsin	16	73	0	14	0	0	31
West North Central	**3**	**0**	**0**	**4**	**0**	**0**	**25**
Iowa	2	0	0	0	0	0	0
Kansas	0	0	0	152	0	0	0
Minnesota	10	0	0	0	0	0	25
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	44	0	0	0	0	0	0
South Atlantic	**15**	**52**	**134**	**8**	**18**	**0**	**22**
Delaware	0	0	0	21	21	0	0
Florida	27	110	0	18	0	0	0
Georgia	53	103	134	29	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	12	82	0	48	0	0	514
South Carolina	0	0	0	6	0	0	0
Virginia	24	153	0	9	0	0	0
West Virginia	0	0	0	0	0	0	22
East South Central	**6**	**88**	**0**	**13**	**64**	**0**	**0**
Alabama	75	103	0	22	66	0	0
Kentucky	0	0	0	15	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**0**	**0**	**2**	**10**	**0**	**0**
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	0	3	12	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	15	0	0
Mountain	**8**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	89	0	0	40	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	16	0	0	6	0	0	0
Pacific Contiguous	**0**	**67**	**0**	**1**	**3**	**0**	**0**
California	0	46	0	1	3	0	0
Oregon	0	0	0	40	0	0	0
Washington	0	81	0	22	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**74**
Alaska	0	16	0	0	0	0	0
Hawaii	0	0	0	0	0	0	74
U.S. Total	**3**	**9**	**19**	**2**	**4**	**0**	**13**

Displayed values of zero may 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, October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**10**	**0**	**0**	**9**
Connecticut	0	0	0	0	0	0	0	19
Maine	0	0	0	0	10	0	0	11
Massachusetts	0	0	0	0	0	0	0	12
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**60**	**8**	**0**	**0**	**7**
New Jersey	0	0	0	85	85	0	0	7
New York	0	0	0	0	16	0	0	8
Pennsylvania	0	0	0	85	10	0	0	10
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**2**	**3**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	27	0	0	5
Michigan	0	0	0	0	10	0	0	7
Ohio	0	0	0	0	13	0	0	8
Wisconsin	0	0	0	0	11	0	58	8
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	120
Minnesota	0	0	0	0	0	0	0	5
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	89	0	0	26
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	57	0	0	17
Florida	0	0	0	0	7	0	0	6
Georgia	0	0	0	0	5	0	11	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	5
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	10
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**33**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	20	0	0	13
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	8	0	33	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**3**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	12	0	4	3
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	12
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	5
Pacific Contiguous	**0**	**0**	**0**	**43**	**7**	**0**	**4**	**1**
California	0	0	0	43	12	0	4	1
Oregon	0	0	0	0	15	0	0	14
Washington	0	0	0	0	9	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**252**	**0**	**0**	**6**
Alaska	0	0	0	0	252	0	0	8
Hawaii	0	0	0	0	0	0	0	8
U.S. Total	**0**	**0**	**0**	**33**	**2**	**0**	**1**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through October 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**141**	**88**	**0**	**15**	**0**	**0**	**26**
Connecticut	0	0	0	19	0	0	0
Maine	141	88	0	38	0	0	26
Massachusetts	0	0	0	12	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**13**	**10**	**76**	**12**	**10**	**0**	**35**
New Jersey	0	0	0	13	0	0	0
New York	0	0	0	16	0	0	35
Pennsylvania	26	144	193	18	14	0	0
East North Central	**5**	**6**	**0**	**7**	**6**	**0**	**28**
Illinois	5	0	0	20	0	0	0
Indiana	0	1	0	9	7	0	0
Michigan	58	937	0	14	0	0	57
Ohio	69	0	0	23	0	0	0
Wisconsin	16	73	0	14	0	0	31
West North Central	**3**	**0**	**0**	**4**	**0**	**0**	**25**
Iowa	2	0	0	0	0	0	0
Kansas	0	0	0	152	0	0	0
Minnesota	10	0	0	0	0	0	25
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	44	0	0	0	0	0	0
South Atlantic	**15**	**52**	**134**	**8**	**18**	**0**	**22**
Delaware	0	0	0	21	21	0	0
Florida	27	110	0	18	0	0	0
Georgia	53	103	134	29	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	12	82	0	48	0	0	514
South Carolina	0	0	0	6	0	0	0
Virginia	24	153	0	9	0	0	0
West Virginia	0	0	0	0	0	0	22
East South Central	**6**	**88**	**0**	**13**	**64**	**0**	**0**
Alabama	75	103	0	22	66	0	0
Kentucky	0	0	0	15	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**0**	**0**	**2**	**10**	**0**	**0**
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	0	3	12	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	15	0	0
Mountain	**8**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	89	0	0	40	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	16	0	0	6	0	0	0
Pacific Contiguous	**0**	**67**	**0**	**1**	**3**	**0**	**0**
California	0	46	0	1	3	0	0
Oregon	0	0	0	40	0	0	0
Washington	0	81	0	22	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**74**
Alaska	0	16	0	0	0	0	0
Hawaii	0	0	0	0	0	0	74
U.S. Total	**3**	**9**	**19**	**2**	**4**	**0**	**13**

Displayed values of zero may 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 October 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**10**	**0**	**0**	**9**
Connecticut	0	0	0	0	0	0	0	19
Maine	0	0	0	0	10	0	0	11
Massachusetts	0	0	0	0	0	0	0	12
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**60**	**8**	**0**	**0**	**7**
New Jersey	0	0	0	85	85	0	0	7
New York	0	0	0	0	16	0	0	8
Pennsylvania	0	0	0	85	10	0	0	10
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**2**	**3**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	27	0	0	5
Michigan	0	0	0	0	10	0	0	7
Ohio	0	0	0	0	13	0	0	8
Wisconsin	0	0	0	0	11	0	58	8
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	120
Minnesota	0	0	0	0	0	0	0	5
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	89	0	0	26
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**3**
Delaware	0	0	0	0	57	0	0	17
Florida	0	0	0	0	7	0	0	6
Georgia	0	0	0	0	5	0	11	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	5
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	10
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**33**	**4**
Alabama	0	0	0	0	5	0	0	7
Kentucky	0	0	0	0	20	0	0	13
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	8	0	33	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**3**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	12	0	4	3
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	12
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	5
Pacific Contiguous	**0**	**0**	**0**	**43**	**7**	**0**	**4**	**1**
California	0	0	0	43	12	0	4	1
Oregon	0	0	0	0	15	0	0	14
Washington	0	0	0	0	9	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**252**	**0**	**0**	**6**
Alaska	0	0	0	0	252	0	0	8
Hawaii	0	0	0	0	0	0	0	8
U.S. Total	**0**	**0**	**0**	**33**	**2**	**0**	**1**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, October 2017

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

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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 October 2017

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	0	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	2	4	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**2**	**0**	**0**
Illinois	1	1	3	0	1
Indiana	1	2	2	0	1
Michigan	0	1	4	0	1
Ohio	1	1	3	0	1
Wisconsin	1	2	6	0	2
West North Central	**1**	**1**	**4**	**0**	**1**
Iowa	2	5	7	0	3
Kansas	2	2	6	0	2
Minnesota	1	3	7	0	2
Missouri	1	2	6	0	1
Nebraska	2	6	11	0	4
North Dakota	2	3	8	0	3
South Dakota	2	6	12	0	4
South Atlantic	**1**	**0**	**2**	**0**	**0**
Delaware	1	3	10	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	2	1	4	0	1
Maryland	0	1	4	0	0
North Carolina	1	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	1	3	0	1
Kentucky	1	2	4	0	2
Mississippi	2	2	6	0	2
Tennessee	1	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	4	0	2
Louisiana	1	1	1	0	1
Oklahoma	2	2	6	0	2
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	4	6	7	0	3
Idaho	1	3	5	0	2
Montana	2	5	16	0	3
Nevada	1	4	2	0	1
New Mexico	6	9	11	0	5
Utah	4	6	4	0	3
Wyoming	2	5	4	0	3
Pacific Contiguous	**1**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	1	3	10	0	2
Washington	1	2	9	0	2
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	2	6	12	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2017	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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	ongoing	ongoing	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.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2017

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2017	10	10/16/2017 3:55 PM	04/30/2024 4:10 PM	57,312 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

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

Table B.2 Major Disturbances and Unusual Occurrences, 2016

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2016	1	01/10/2016 8:46 PM	01/11/2016 5:25 AM	8 Hours, 39 Minutes	ISO New England	NPCC	Maine: Connecticut: Massachusetts: Vermont: New Hampshire: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	59859
2016	1	01/22/2016 3:52 PM	01/24/2016 12:30 PM	44 Hours, 38 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	150000
2016	1	01/23/2016 7:49 AM	01/23/2016 9:05 AM	1 Hours, 16 Minutes	FirstEnergy Corp. Jersey Central Power & Light	RFC	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	50900
2016	2	02/05/2016 11:21 AM	02/06/2016 3:48 PM	28 Hours, 27 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	115057
2016	2	02/13/2016 12:44 PM	02/13/2016 4:27 PM	3 Hours, 43 Minutes	Pacific Gas & Electric Co	SERC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	7	4300
2016	2	02/16/2016 8:35 AM	02/16/2016 5:28 PM	8 Hours, 53 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	Virginia: Roanoke County, Montgomery County; West Virginia: Kanawha County, Cabell County; Tennessee: Sullivan County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	52640
2016	2	02/19/2016 10:00 PM	02/20/2016 11:13 PM	25 Hours, 13 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	145314
2016	2	02/24/2016 2:45 PM	02/25/2016 5:00 AM	14 Hours, 15 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	400	284610
2016	2	02/25/2016 1:44 AM	02/25/2016 2:45 PM	13 Hours, 1 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	114190
2016	2	02/26/2016 12:01 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: San Bernardino County	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	3	03/01/2016 3:00 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington: King County, Whatcom County, Kitsap County, Skagit County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	56000
2016	3	03/03/2016 11:00 AM	04/16/2016 7:47 PM	1,064 Hours, 47 Minutes	California Department of Water Resources	WECC	California: San Bernardino County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	3	03/23/2016 5:00 AM	03/25/2016 11:59 PM	66 Hours, 59 Minutes	Xcel Energy/Public Service Company of Colorado	WECC	Colorado: Denver, City and County of[12];	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	0	0
2016	4	04/02/2016 11:08 AM	04/02/2016 11:33 AM	0 Hours, 25 Minutes	California Department of Water Resources	WECC	California	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	360	0
2016	4	04/18/2016 5:05 AM	04/20/2016 7:55 AM	50 Hours, 50 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	415103
2016	4	04/27/2016 5:50 AM	04/28/2016 1:35 AM	19 Hours, 45 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	214864
2016	5	05/08/2016 9:12 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	Unknown	Unknown
2016	5	05/10/2016 8:45 PM	05/13/2016 3:00 AM	54 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Parker County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/19/2016 9:36 PM	05/20/2016 1:00 AM	3 Hours, 24 Minutes	Pacificorp	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	461	85179
2016	5	05/20/2016 12:00 AM	05/22/2016 5:00 AM	53 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/20/2016 1:15 AM	. .	. Hours, . Minutes	Entergy Transmission - SOC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	57184
2016	5	05/31/2016 7:30 AM	06/13/2016 7:27 AM	311 Hours, 57 Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	150	Unknown
2016	6	06/17/2016 3:40 PM	06/18/2016 8:34 AM	16 Hours, 54 Minutes	Southern Company	SERC	Georgia, Alabama, Mississippi, Florida	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	304	91260
2016	7	07/05/2016 2:45 AM	07/06/2016 3:00 AM	24 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2016	7	07/05/2016 5:30 PM	07/06/2016 4:00 PM	22 Hours, 30 Minutes	Northern States Power Co	MRO	Minnesota, Wisconsin	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	250000
2016	7	07/07/2016 4:20 AM	07/07/2016 8:00 AM	3 Hours, 40 Minutes	Kansas City Power & Light Co	SERC	Kansas: Johnson County; Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58500
2016	7	07/08/2016 6:00 PM	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	West Virginia: Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62961
2016	7	07/08/2016 7:00 PM	07/09/2016 12:00 AM	5 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160895
2016	7	07/08/2016 8:50 PM	07/09/2016 7:25 PM	22 Hours, 35 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	600	203345
2016	7	07/09/2016 5:45 PM	07/11/2016 2:00 PM	44 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000

Table B.2 Major Disturbances and Unusual Occurrences, 2016

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2016	7	07/12/2016 2:10 PM	07/12/2016 8:33 PM	6 Hours, 23 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	450	218000
2016	7	07/13/2016 3:00 PM	. .	. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Public Appeal-System Operations	Unknown	Unknown
2016	7	07/14/2016 2:44 PM	07/15/2016 4:00 AM	13 Hours, 16 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	96966
2016	7	07/14/2016 4:30 PM	07/16/2016 12:00 AM	31 Hours, 30 Minutes	Entergy Services, Inc.	SPP, SERC,	Arkansas: Louisiana: Mississippi: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	170244
2016	7	07/14/2016 5:30 PM	07/16/2016 8:00 PM	50 Hours, 30 Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma: Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	7300
2016	7	07/19/2016 3:45 PM	07/19/2016 7:25 PM	3 Hours, 40 Minutes	Pacificorp	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	485	Unknown
2016	7	07/19/2016 3:45 PM	07/19/2016 7:29 PM	3 Hours, 44 Minutes	Bonneville Power Administration	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	290	Unknown
2016	7	07/21/2016 7:21 PM	07/22/2016 12:09 AM	4 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Load Shed 100+ MW, Voltage Reduction-System Operations	200	266000
2016	7	07/22/2016 11:50 PM	07/23/2016 9:10 AM	9 Hours, 20 Minutes	ISO New England	NPCC	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57058
2016	7	07/23/2016 3:15 PM	07/23/2016 7:53 PM	4 Hours, 38 Minutes	CAmbria Cogen Company	RFC	Pennsylvania: Cambria County	Voltage Reduction-System Operations	87	Unknown
2016	7	07/23/2016 7:30 PM	07/24/2016 7:30 AM	12 Hours, 0 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	101073
2016	7	07/25/2016 6:51 PM	07/26/2016 2:19 AM	7 Hours, 28 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	7	07/26/2016 6:51 PM	07/27/2016 1:45 AM	6 Hours, 54 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	25	37100
2016	7	07/27/2016 6:50 PM	07/28/2016 1:38 AM	6 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	80	106300
2016	7	07/28/2016 6:51 PM	07/29/2016 2:02 AM	7 Hours, 11 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	22	21600
2016	7	07/29/2016 7:09 PM	07/29/2016 7:57 PM	0 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	8	08/07/2016 6:39 PM	08/07/2016 8:27 PM	1 Hours, 48 Minutes	Peak Reliability	WECC	New Mexico: Bernalillo County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	Unknown	Unknown
2016	8	08/10/2016 6:00 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	8	08/11/2016 4:30 PM	08/11/2016 7:15 PM	2 Hours, 45 Minutes	FirstEnergy Corp	RFC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62140
2016	8	08/13/2016 11:42 AM	08/13/2016 2:07 PM	2 Hours, 25 Minutes	Broad River Energy, LLC	SERC	South Carolina:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	506	0
2016	8	08/23/2016 5:00 PM	08/24/2016 12:05 AM	7 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72200
2016	8	08/24/2016 6:13 PM	08/24/2016 7:14 PM	1 Hours, 1 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	600	400000
2016	8	08/24/2016 7:18 PM	08/24/2016 7:47 PM	0 Hours, 29 Minutes	Peak Reliability	WECC	Washington: King County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	9232	Unknown
2016	8	08/31/2016 9:45 AM	08/31/2016 9:55 AM	0 Hours, 10 Minutes	Peak Reliability	WECC	Colorado:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2016	8	08/31/2016 2:52 PM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	0	0
2016	9	09/01/2016 10:00 PM	. .	. Hours, . Minutes	Seminole Electric Cooperative Inc	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	100	Unknown
2016	9	09/02/2016 12:40 AM	09/04/2016 8:00 PM	67 Hours, 20 Minutes	City of Tallahassee - (FL)	FRCC	Florida: Leon County, Wakulla County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	450	75000
2016	9	09/02/2016 4:00 AM	09/02/2016 4:00 PM	12 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	225	90000
2016	9	09/02/2016 5:45 AM	09/03/2016 12:30 AM	18 Hours, 45 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57000

Table B.2 Major Disturbances and Unusual Occurrences, 2016

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2016	9	09/06/2016 6:12 PM	09/06/2016 9:24 PM	3 Hours, 12 Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	300	Unknown
2016	9	09/08/2016 8:30 AM	09/25/2016 12:00 AM	399 Hours, 30 Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	210	Unknown
2016	9	09/08/2016 2:49 PM	09/08/2016 3:03 PM	0 Hours, 14 Minutes	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	0	0
2016	9	09/10/2016 9:42 AM	09/10/2016 9:57 AM	0 Hours, 15 Minutes	Peak Reliability	WECC	Washington: Clark County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	135	Unknown
2016	9	09/11/2016 12:05 PM	09/11/2016 3:10 PM	3 Hours, 5 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57960
2016	9	09/12/2016 12:30 PM	09/12/2016 5:56 PM	5 Hours, 26 Minutes	Public Service Company of New Mexico	WECC	New Mexico: Bernalillo County, Sandoval County, Santa Fe County, Valencia County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	110	53753
2016	9	09/21/2016 2:30 PM	09/24/2016 2:30 AM	60 Hours, 0 Minutes	Puerto Rico Electric Power Authority		Puerto Rico:	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	2750	1475000
2016	9	09/22/2016 10:56 AM	09/22/2016 11:41 AM	0 Hours, 45 Minutes	Cedar Falls Utilities	MRO	Iowa: Black Hawk County;	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	69	19124
2016	10	10/02/2016 11:30 PM	10/05/2016 8:00 AM	56 Hours, 30 Minutes	Pacificorp	WECC	Utah:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Transmission Interruption	50	4000
2016	10	10/03/2016 3:09 PM	10/04/2016 7:00 PM	27 Hours, 51 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/05/2016 11:32 AM	10/05/2016 7:00 PM	7 Hours, 28 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 9:50 AM	10/06/2016 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 7:30 PM	10/08/2016 6:00 PM	46 Hours, 30 Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	5600	1200000
2016	10	10/07/2016 8:00 AM	10/09/2016 1:00 PM	53 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	413	165000
2016	10	10/07/2016 11:08 AM	10/07/2016 7:00 PM	7 Hours, 52 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/07/2016 4:22 PM	10/12/2016 11:00 AM	114 Hours, 38 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	122	36384
2016	10	10/07/2016 10:45 PM	. .	. Hours, . Minutes	Seminole Electric Cooperative Inc	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2016	10	10/08/2016 1:10 AM	. .	. Hours, . Minutes	South Carolina Electric and Gas	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1050	290824
2016	10	10/08/2016 8:21 AM	10/13/2016 5:30 PM	129 Hours, 9 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2016	10	10/10/2016 1:15 PM	10/10/2016 7:00 PM	5 Hours, 45 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/28/2016 1:29 PM	10/28/2016 1:38 PM	0 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	4	482
2016	11	11/09/2016 11:59 AM	11/09/2016 6:15 PM	6 Hours, 16 Minutes	Modesto Irrigation District	WECC	California: Stanislaus County, San Joaquin County, Alameda County, Tuolumne County;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Attack	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2016

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2016	12	12/15/2016 6:30 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Merced County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	Unknown	Unknown
2016	12	12/28/2016 4:03 AM	12/31/2016 6:00 AM	73 Hours, 57 Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	12	12/30/2016 2:30 AM	12/30/2016 7:00 PM	16 Hours, 30 Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	85263

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

Appendix C

Technical notes

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

Data quality

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

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

Reliability of data

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

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

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

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

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

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

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

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

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Issues within historical data series:

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

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

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

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

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

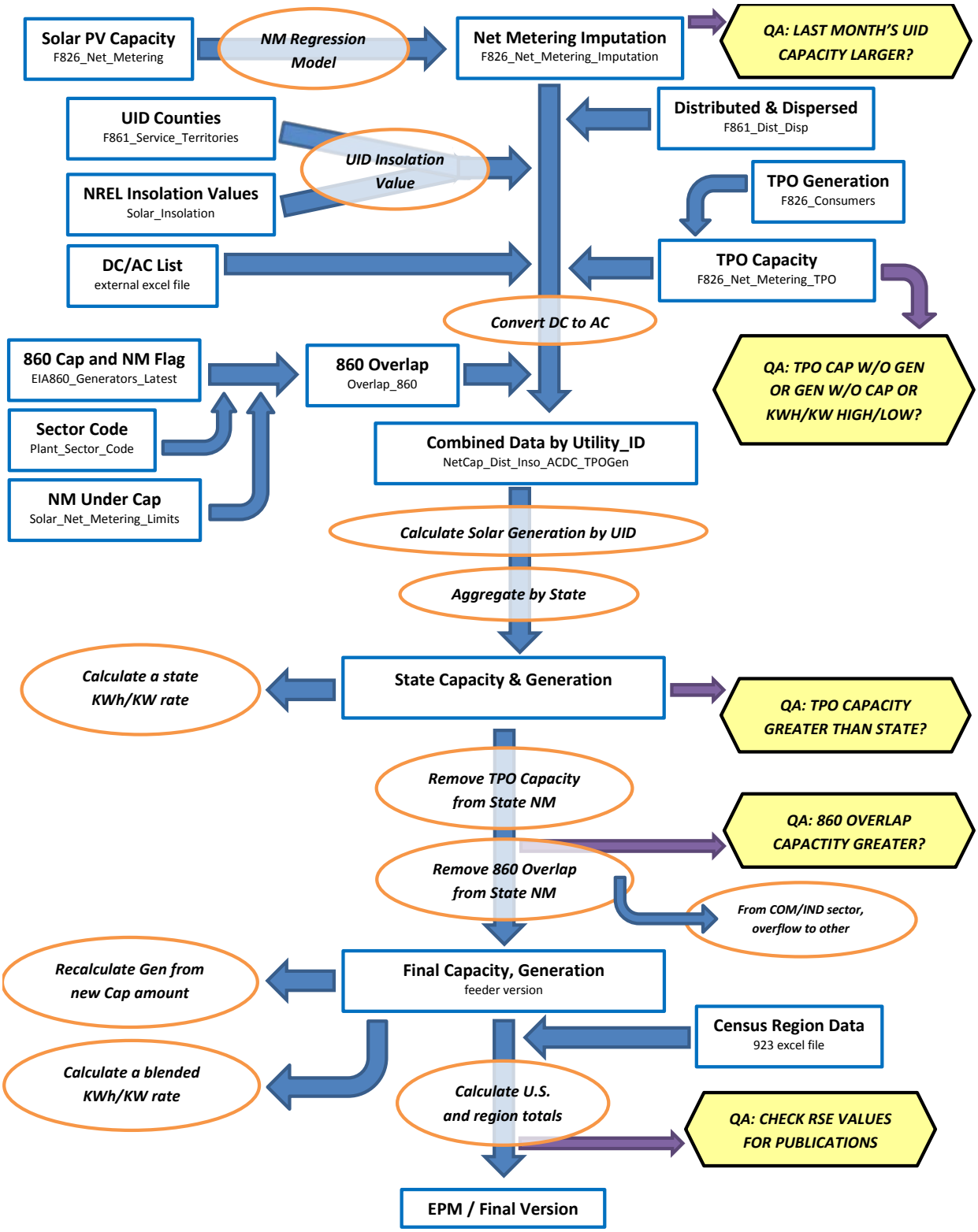
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, October 2017

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.40	6.29	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.40	6.25	--	1.02
Massachusetts	--	6.30	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	24.16	5.99	--	1.03
New Jersey	26.11	5.75	--	1.03
New York	25.80	6.28	--	1.03
Pennsylvania	24.06	5.91	--	1.04
East North Central	20.16	5.79	26.75	1.04
Illinois	17.75	5.78	--	1.00
Indiana	22.44	5.77	--	1.06
Michigan	18.57	5.81	26.69	1.04
Ohio	24.32	5.79	--	1.06
Wisconsin	17.71	5.80	27.04	1.03
West North Central	16.59	5.79	27.60	1.04
Iowa	17.55	5.83	27.60	1.05
Kansas	17.17	5.78	--	1.02
Minnesota	17.69	5.80	--	1.02
Missouri	17.61	5.78	--	1.02
Nebraska	16.98	5.75	--	1.06
North Dakota	13.09	--	--	1.00
South Dakota	16.63	--	--	--
South Atlantic	23.39	5.89	28.09	1.03
Delaware	--	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.42	6.12	28.09	1.02
Georgia	19.74	5.94	--	1.03
Maryland	24.84	5.99	--	1.05
North Carolina	25.02	5.89	--	1.04
South Carolina	24.76	5.78	--	1.03
Virginia	24.73	5.74	--	1.05
West Virginia	24.54	5.77	--	1.09
East South Central	21.16	5.80	--	1.03
Alabama	20.25	5.77	--	1.03
Kentucky	22.41	5.82	--	1.05
Mississippi	14.42	5.80	--	1.03
Tennessee	21.35	5.77	--	1.01
West South Central	16.23	5.83	28.65	1.03
Arkansas	17.49	5.84	--	1.03
Louisiana	16.64	--	28.65	1.03
Oklahoma	17.34	5.80	--	1.03
Texas	15.76	5.84	--	1.03
Mountain	18.86	5.69	--	1.04
Arizona	19.38	5.63	--	1.04
Colorado	18.52	--	--	1.09
Idaho	--	--	--	--
Montana	17.13	--	--	1.04
Nevada	17.69	5.79	--	1.04
New Mexico	19.35	5.66	--	1.05
Utah	21.60	5.84	--	1.03
Wyoming	17.67	5.88	--	1.05
Pacific Contiguous	17.60	6.00	--	1.04
California	22.93	--	--	1.03
Oregon	17.28	--	--	1.05
Washington	17.02	6.00	--	1.09
Pacific Noncontiguous	18.24	6.13	--	1.00
Alaska	13.65	--	--	1.00
Hawaii	19.51	6.13	--	--
U.S. Total	19.10	6.04	28.10	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%	0.73%
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%	1.37%
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%	0.35%
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

Item	2014			2015			2016		
	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	355,540	-0.49%
Total	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,827**	**-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	31,702	2.66%
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	9.40	0.39%
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.