Independent Statistics & Analysis
U.S. Energy Information Administration

Electric Power Monthly
with Data for August 2017

October 2017

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October 2017 EPM Revision Notice – October 27, 2017
August 2017 Electric Power Sector Coal Stocks were revised slightly in Tables ES.1.A, ES.1.B, and Tables 3.1 through 3.4. Electric Power Sector Bituminous and Subbituminous Coal Stocks were also revised slightly in Table 3.4.

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

Preface

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

Background

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

Data sources

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

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	120,005	135,811	-11.6%	90,961	100,319	28,300	34,589	27	33	717	870	0	0
Petroleum Liquids	Utility Scale Facilities	988	1,275	-22.5%	703	888	240	324	11	14	34	49	0	0
Petroleum Coke	Utility Scale Facilities	733	1,085	-32.4%	540	856	108	140	1	0	84	88	0	0
Natural Gas	Utility Scale Facilities	137,781	155,117	-11.2%	67,701	72,932	61,767	73,267	696	781	7,617	8,137	0	0
Other Gas	Utility Scale Facilities	1,335	1,102	21.2%	NM	15	389	331	0	0	942	756	0	0
Nuclear	Utility Scale Facilities	72,384	71,526	1.2%	38,667	37,927	33,717	33,599	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	21,406	19,359	10.6%	19,636	18,054	1,639	1,213	NM	NM	118	87	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	25,485	24,510	4.0%	2,610	2,656	20,046	19,146	272	283	2,557	2,425	0	0
... Wind	Utility Scale Facilities	13,094	13,561	-3.4%	1,794	1,901	11,290	11,646	NM	NM	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	5,427	3,948	37.5%	359	227	5,003	3,659	58	59	7	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,693	3,650	1.2%	241	309	980	1,007	7	12	2,464	2,323	0	0
... Other Biomass	Utility Scale Facilities	1,777	1,908	-6.8%	125	126	1,370	1,484	201	203	82	94	0	0
... Geothermal	Utility Scale Facilities	1,493	1,444	3.4%	91	94	1,402	1,350	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-638	-902	-29.2%	-531	-787	-107	-115	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,218	1,231	-1.1%	46	22	583	627	95	96	494	486	0	0
All Energy Sources	Utility Scale Facilities	380,697	410,113	-7.2%	220,339	232,883	146,680	163,120	1,116	1,212	12,563	12,898	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,546	2,004	27.1%	0	0	0	0	850	718	258	186	1,438	1,100
Estimated Total Solar Photovoltaic	All Facilities	7,632	5,584	36.7%	354	220	4,666	3,298	909	777	264	NM	1,438	1,100
Estimated Total Solar	All Facilities	7,973	5,952	34.0%	359	227	5,003	3,659	909	777	264	NM	1,438	1,100
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	66,047	73,868	-10.6%	49,326	53,927	16,437	19,600	9	12	275	330	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,654	2,195	-24.7%	1,271	1,630	324	498	19	15	39	52	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	286	422	-32.2%	227	337	43	62	0	0	16	23	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,045,101	1,191,376	-12.3%	521,659	573,095	463,327	554,337	6,318	6,741	53,797	57,203	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,016	1,173	-13.4%	86	90	112	141	36	39	783	904	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	206	233	-11.8%	1	0	89	94	20	10	96	129	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	90	84	6.7%	1	0	9	9	2	0	78	75	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	78,673	83,318	-5.6%	844	956	22,311	26,205	4,052	4,159	51,465	51,998	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	67,063	75,041	-10.6%	49,412	54,017	16,548	19,740	45	50	1,058	1,234	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,859	2,428	-23.4%	1,272	1,630	413	592	39	25	135	181	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	376	506	-25.8%	228	337	51	71	2	0	94	98	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,123,774	1,274,694	-11.8%	522,503	574,051	485,638	580,542	10,371	10,901	105,262	109,201	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	145,108	161,885	-10.4%	115,053	129,111	29,076	31,341	97	138	882	1,295	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	29,702	36,564	-18.8%	19,214	20,402	8,864	14,421	346	387	1,279	1,355	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,062	949	11.9%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for August									
	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	August 2017	August 2016	Percentage Change	August 2017	August 2016	Percentage Change	August 2017	August 2016	Percentage Change
Residential	141,745	155,851	-9.1%	18,699	20,104	-7.0%	13.19	12.90	2.2%
Commercial	127,617	134,078	-4.8%	14,089	14,355	-1.9%	11.04	10.71	3.1%
Industrial	85,816	85,061	0.9%	6,218	6,152	1.1%	7.25	7.23	0.3%
Transportation	641	632	1.5%	65	63	3.3%	10.07	9.89	1.8%
All Sectors	355,819	375,622	-5.3%	39,070	40,674	-3.9%	10.98	10.83	1.4%

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

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

Net Generation and Consumption of Fuels for January through August														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	823,835	820,699	0.4%	616,784	614,422	201,270	199,438	232	281	5,549	6,558	0	0
Petroleum Liquids	Utility Scale Facilities	7,898	8,616	-8.3%	5,720	5,989	1,809	2,232	86	75	284	321	0	0
Petroleum Coke	Utility Scale Facilities	6,158	7,965	-22.7%	4,644	6,393	911	906	5	4	598	662	0	0
Natural Gas	Utility Scale Facilities	839,564	961,089	-12.6%	409,821	459,008	365,655	435,531	4,989	5,296	59,099	61,253	0	0
Other Gas	Utility Scale Facilities	9,440	9,050	4.3%	115	89	2,768	2,675	0	0	6,557	6,286	0	0
Nuclear	Utility Scale Facilities	531,029	542,304	-2.1%	281,030	290,114	249,998	252,190	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	222,175	190,947	16.4%	205,416	176,609	15,622	13,324	NM	NM	1,043	969	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	254,077	225,994	12.4%	28,619	27,447	204,264	177,457	2,115	2,184	19,079	18,907	0	0
... Wind	Utility Scale Facilities	163,604	147,728	10.7%	22,623	22,184	140,845	125,398	88	96	NM	51	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	37,117	24,879	49.2%	2,431	1,517	34,246	22,938	408	401	32	23	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	27,642	27,189	1.7%	1,921	2,057	7,380	7,081	50	51	18,290	18,000	0	0
... Other Biomass	Utility Scale Facilities	13,964	14,848	-6.0%	936	973	10,750	11,406	1,568	1,637	709	833	0	0
... Geothermal	Utility Scale Facilities	11,750	11,351	3.5%	707	715	11,043	10,636	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,264	-4,050	5.3%	-3,560	-3,353	-705	-698	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	8,883	9,201	-3.5%	364	216	4,391	4,768	693	733	3,435	3,484	0	0
All Energy Sources	Utility Scale Facilities	2,698,794	2,771,816	-2.6%	1,548,953	1,576,934	1,045,984	1,087,826	8,214	8,617	95,643	98,440	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	17,233	13,561	27.1%	0	0	0	0	5,817	5,049	1,722	1,260	9,694	7,252
Estimated Total Solar Photovoltaic	All Facilities	51,998	35,943	44.7%	2,424	1,457	31,901	20,501	6,226	5,450	1,754	1,283	9,694	7,252
Estimated Total Solar	All Facilities	54,350	38,440	41.4%	2,431	1,517	34,246	22,938	6,226	5,450	1,754	1,283	9,694	7,252
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	451,552	447,933	0.8%	333,948	331,244	115,396	114,193	84	95	2,124	2,400	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	13,529	14,668	-7.8%	10,339	10,869	2,711	3,345	146	88	333	367	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,342	3,004	-22.0%	1,888	2,447	324	386	1	1	128	170	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,349,453	7,266,358	-12.6%	3,146,547	3,548,139	2,735,814	3,243,895	45,885	46,681	421,207	427,643	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	8,703	9,978	-12.8%	736	725	1,009	1,186	293	365	6,666	7,702	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,631	1,708	-4.5%	12	16	658	664	160	87	801	941	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	655	667	-1.7%	3	2	72	67	9	7	570	591	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	639,515	641,277	-0.3%	6,654	7,603	172,310	195,325	33,377	32,490	427,174	405,859	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	460,256	457,911	0.5%	334,684	331,969	116,405	115,378	377	460	8,789	10,103	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	15,160	16,376	-7.4%	10,350	10,885	3,369	4,009	306	175	1,134	1,308	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,998	3,671	-18.3%	1,892	2,449	397	453	11	8	698	761	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,988,967	7,907,635	-11.6%	3,153,201	3,555,742	2,908,123	3,439,220	79,262	79,172	848,381	833,502	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through August									
	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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	Percentage Change
Residential	935,272	963,509	-2.9%	120,746	120,797	0.0%	12.91	12.54	3.0%
Commercial	901,711	910,307	-0.9%	96,177	94,274	2.0%	10.67	10.36	3.0%
Industrial	631,741	628,418	0.5%	43,639	42,288	3.2%	6.91	6.73	2.7%
Transportation	5,009	5,005	0.1%	487	476	2.4%	9.72	9.50	2.3%
All Sectors	2,473,732	2,507,240	-1.3%	261,049	257,834	1.2%	10.55	10.28	2.6%

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

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

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal (1000 tons)	61,134	63,867	39.85	40.85	276	287	425,654	407,743	40.23	41.30
Petroleum Liquids (1000 barrels)	1,136	1,479	W	57.64	141	166	10,105	11,049	68.45	54.70
Petroleum Coke (1000 tons)	284	398	W	48.48	7	8	2,175	2,781	W	40.06
Natural Gas (1000 Mcf)	870,465	1,162,373	3.27	3.06	501	787	5,391,080	7,151,353	3.53	2.79

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal (1000 tons)	45,611	47,289	40.88	42.27	190	201	311,876	304,473	41.29	42.41
Petroleum Liquids (1000 barrels)	838	1,089	67.53	56.56	94	105	7,641	8,204	67.93	54.19
Petroleum Coke (1000 tons)	273	335	59.17	45.01	6	6	2,145	2,403	58.33	36.13
Natural Gas (1000 Mcf)	418,121	549,200	3.57	3.34	260	421	2,601,984	3,433,339	3.77	3.06

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal (1000 tons)	14,784	15,952	35.96	35.92	65	68	107,880	98,420	36.41	36.84
Petroleum Liquids (1000 barrels)	280	380	W	60.55	38	51	2,290	2,656	70.16	56.12
Petroleum Coke (1000 tons)	0	55	--	W	0	1	0	281	--	68.85
Natural Gas (1000 Mcf)	398,444	549,115	2.85	2.72	195	319	2,359,092	3,232,720	3.23	2.48

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal (1000 tons)	0	4	W	W	1	1	15	23	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)	778	765	W	W	3	3	4,883	5,461	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	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal (1000 tons)	738	622	W	W	20	17	5,883	4,827	W	W
Petroleum Liquids (1000 barrels)	18	10	W	65.04	9	10	174	189	69.08	57.37
Petroleum Coke (1000 tons)	11	8	W	W	1	1	29	96	W	W
Natural Gas (1000 Mcf)	53,122	63,294	W	W	43	44	425,121	479,833	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... A plant using more than one fuel may be counted multiple times.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

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

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal	1,172,537	1,235,488	2.08	2.11	276	287	8,176,698	7,905,130	2.09	2.13
Petroleum Liquids	6,866	9,033	W	9.44	141	166	60,656	66,963	11.40	9.02
Petroleum Coke	7,972	11,032	W	1.75	7	8	61,018	78,043	W	1.43
Natural Gas	900,124	1,204,258	3.16	2.96	501	787	5,572,195	7,392,410	3.42	2.70
Fossil Fuels	2,087,499	2,459,811	W	2.53	665	967	13,870,567	15,442,545	W	2.42

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal	882,432	919,918	2.11	2.17	190	201	6,042,060	5,939,133	2.13	2.17
Petroleum Liquids	5,107	6,733	11.08	9.15	94	105	46,111	50,205	11.26	8.85
Petroleum Coke	7,676	9,306	2.11	1.62	6	6	60,197	67,671	2.08	1.28
Natural Gas	432,273	569,260	3.46	3.23	260	421	2,688,886	3,549,217	3.65	2.96
Fossil Fuels	1,327,488	1,505,217	2.58	2.60	374	543	8,837,253	9,606,225	2.64	2.49

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal	274,367	301,966	1.94	1.90	65	68	2,010,440	1,858,412	1.95	1.95
Petroleum Liquids	1,649	2,242	W	10.26	38	51	13,458	15,602	11.94	9.54
Petroleum Coke	0	1,509	--	W	0	1	0	7,741	--	2.50
Natural Gas	412,143	568,632	2.76	2.63	195	319	2,439,190	3,342,546	3.13	2.40
Fossil Fuels	688,160	874,348	W	W	243	373	4,463,088	5,224,301	2.56	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal	4	92	W	W	1	1	339	526	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	809	802	W	W	3	3	5,046	5,617	W	W
Fossil Fuels	813	893	W	W	3	3	5,385	6,142	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	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
Coal	15,734	13,513	W	W	20	17	123,859	107,060	W	W
Petroleum Liquids	110	58	W	10.89	9	10	1,088	1,156	11.08	9.40
Petroleum Coke	296	217	W	W	1	1	821	2,630	W	W
Natural Gas	54,898	65,565	W	W	43	44	439,073	495,030	W	W
Fossil Fuels	71,039	79,352	W	W	45	48	564,841	605,877	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-August 2017
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,108	12,675	11,232	1,380,295	13,000	805,327	265,829	36,754	306,861	-6,686	13,683	4,079,079	19,467	52,833	56,221
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
Year 2016															
January	113,551	1,343	953	109,787	1,263	72,525	25,426	1,516	25,549	-312	1,144	352,745	1,021	2,450	2,536
February	92,719	1,236	904	98,190	1,169	65,638	24,150	2,443	26,682	-399	1,017	313,749	1,189	3,391	3,632
March	72,138	820	945	103,791	1,241	66,149	27,025	2,713	28,631	-384	1,099	304,168	1,582	4,038	4,295
April	72,022	794	1,037	99,561	1,149	62,365	25,475	2,949	26,812	-452	1,123	292,836	1,763	4,439	4,712
May	81,728	950	974	110,901	977	66,576	25,362	3,603	25,374	-321	1,211	317,337	1,945	5,160	5,548
June	116,227	936	1,009	131,883	1,085	67,175	22,902	3,610	22,925	-497	1,164	368,418	1,991	5,190	5,601
July	136,504	1,261	1,057	151,860	1,066	70,349	21,247	4,097	24,581	-784	1,212	412,450	2,066	5,691	6,163
August	135,811	1,275	1,085	155,117	1,102	71,526	19,359	3,948	20,562	-902	1,231	410,113	2,004	5,584	5,952
Sept	114,282	920	1,004	125,639	1,050	65,448	16,281	3,683	23,013	-715	1,164	351,769	1,790	5,109	5,473
October	99,338	941	611	102,625	891	60,733	17,249	3,193	26,726	-561	1,083	312,828	1,607	4,552	4,801
November	87,000	1,058	781	94,529	1,001	65,179	18,815	2,700	25,879	-607	1,092	297,427	1,307	3,823	4,007
December	118,790	1,139	871	96,412	1,007	71,662	22,538	2,299	30,128	-753	1,144	345,238	1,202	3,406	3,500
Year 2017															
January	115,549	1,175	945	91,325	1,115	73,121	27,704	2,206	27,232	-418	1,118	341,072	1,282	3,398	3,488
February	87,267	916	707	78,581	1,152	64,053	24,611	2,562	28,045	-504	1,024	288,414	1,449	3,875	4,011
March	89,648	971	744	92,638	1,206	65,093	30,198	4,474	32,399	-517	1,078	317,934	2,054	6,232	6,529
April	81,789	897	435	86,234	1,084	56,743	29,236	4,816	31,821	-437	1,061	293,679	2,268	6,774	7,084
May	93,125	1,002	839	96,354	1,163	61,309	32,122	5,816	28,815	-423	1,080	321,202	2,479	7,893	8,295
June	108,109	1,000	891	114,215	1,153	67,011	30,674	6,272	25,919	-568	1,097	355,774	2,524	8,332	8,796
July	128,342	949	865	142,436	1,231	71,314	26,223	5,544	22,671	-759	1,206	400,022	2,629	7,862	8,173
August	120,005	988	733	137,781	1,335	72,384	21,406	5,427	20,058	-638	1,218	380,697	2,546	7,632	7,973
Year to Date															
2015	960,932	13,479	7,558	888,428	8,989	540,233	173,852	17,467	173,672	-3,538	9,216	2,790,287	9,716	24,804	27,183
2016	820,699	8,616	7,965	961,089	9,050	542,304	190,947	24,879	201,116	-4,050	9,201	2,771,816	13,561	35,943	38,440
2017	823,835	7,898	6,158	839,564	9,440	531,029	222,175	37,117	216,960	-4,264	8,883	2,698,794	17,233	51,998	54,350
Rolling 12 Months Ending in August															
2016	1,212,166	12,509	11,284	1,406,143	13,178	799,249	266,175	32,305	297,712	-5,604	14,013	4,059,130	17,985	46,944	50,290
2017	1,243,244	11,957	9,425	1,258,769	13,389	794,051	297,058	48,993	322,705	-6,900	13,365	4,006,057	23,138	68,888	72,131

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,872	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,445	19,467	52,833	56,221
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
Year 2016													
January	18,531	1,430	86	3,615	1,007	628	295	1,471	25,426	52,491	1,021	2,450	2,536
February	20,204	2,202	241	3,394	892	547	274	1,372	24,150	53,275	1,189	3,391	3,632
March	21,979	2,456	257	3,381	938	588	285	1,460	27,025	58,369	1,582	4,038	4,295
April	20,745	2,676	273	2,909	937	602	280	1,340	25,475	55,236	1,763	4,439	4,712
May	18,795	3,215	388	3,173	1,002	661	267	1,476	25,362	54,340	1,945	5,160	5,548
June	16,318	3,198	412	3,414	976	620	234	1,364	22,902	49,437	1,991	5,190	5,601
July	17,595	3,625	471	3,652	1,007	642	261	1,424	21,247	49,925	2,066	5,691	6,163
August	13,561	3,581	368	3,650	1,005	645	257	1,444	19,359	43,869	2,004	5,584	5,952
Sept	16,430	3,319	363	3,369	942	600	221	1,451	16,281	42,977	1,790	5,109	5,473
October	20,380	2,945	249	3,105	916	592	244	1,489	17,249	47,168	1,607	4,552	4,801
November	19,342	2,516	184	3,257	924	600	249	1,507	18,815	47,394	1,307	3,823	4,007
December	22,991	2,204	95	3,584	1,018	652	263	1,620	22,538	54,965	1,202	3,406	3,500
Year 2017													
January	20,350	2,116	90	3,451	986	620	286	1,541	27,704	57,142	1,282	3,398	3,488
February	21,692	2,426	136	3,308	881	530	266	1,369	24,611	55,218	1,449	3,875	4,011
March	25,599	4,178	297	3,504	924	552	286	1,533	30,198	67,071	2,054	6,232	6,529
April	25,403	4,506	310	3,254	874	539	248	1,503	29,236	65,874	2,268	6,774	7,084
May	22,326	5,414	402	3,321	906	597	242	1,422	32,122	66,753	2,479	7,893	8,295
June	19,429	5,807	465	3,399	882	583	239	1,387	30,674	62,865	2,524	8,332	8,796
July	15,711	5,232	311	3,711	913	597	236	1,504	26,223	54,438	2,629	7,862	8,173
August	13,094	5,086	341	3,693	935	611	231	1,493	21,406	46,891	2,546	7,632	7,973
Year to Date													
2015	120,587	15,088	2,378	28,221	7,401	4,726	2,056	10,681	173,852	364,991	9,716	24,804	27,183
2016	147,728	22,382	2,497	27,189	7,763	4,932	2,154	11,351	190,947	416,941	13,561	35,943	38,440
2017	163,604	34,765	2,352	27,642	7,301	4,629	2,034	11,750	222,175	476,252	17,233	51,998	54,350
Rolling 12 Months Ending in August													
2016	217,860	28,960	3,345	40,896	11,653	7,417	3,298	16,587	266,175	596,191	17,985	46,944	50,290
2017	242,748	45,750	3,243	40,957	11,100	7,072	3,012	17,817	297,058	668,756	23,138	68,888	72,131

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms..
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,299	8,671	8,881	654,476	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,081
Year 2015												
January	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
Year 2016												
January	84,064	926	832	52,497	NM	37,974	23,185	101	3,317	-230	27	202,696
February	69,803	779	734	47,642	4	34,281	21,931	158	3,625	-332	26	178,652
March	56,901	584	724	49,809	6	34,445	24,916	173	3,693	-291	34	170,993
April	53,477	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,944
May	62,122	654	763	52,960	NM	36,531	23,512	214	3,104	-257	27	179,641
June	86,713	687	793	64,043	17	37,000	21,477	223	3,034	-409	28	213,606
July	101,023	903	833	72,500	23	37,919	19,901	235	2,836	-678	23	235,520
August	100,319	888	856	72,932	15	37,927	18,054	227	2,429	-787	22	232,883
Sept	83,380	620	807	58,470	24	33,919	15,222	207	3,212	-626	22	195,258
October	73,089	633	418	47,523	6	30,016	16,101	179	3,472	-471	25	170,992
November	64,946	673	596	43,678	22	33,082	17,741	147	3,631	-522	24	164,018
December	87,463	755	667	45,796	23	37,268	20,976	221	4,343	-657	24	196,879
Year 2017												
January	86,163	839	743	44,026	16	38,425	25,618	158	3,039	-328	49	198,748
February	65,271	660	540	37,367	22	34,403	22,749	184	3,437	-414	46	164,264
March	66,356	761	535	45,000	20	34,693	27,998	292	4,098	-450	51	179,355
April	59,423	670	260	42,419	18	30,217	26,998	315	3,999	-366	54	164,005
May	69,481	720	654	47,829	5	31,728	29,727	375	3,491	-350	35	183,697
June	81,812	705	698	55,625	10	35,022	28,532	388	3,289	-474	38	205,646
July	97,317	663	673	69,854	19	37,874	24,158	360	2,584	-646	43	232,899
August	90,961	703	540	67,701	NM	38,667	19,636	359	2,252	-531	46	220,339
Year to Date												
2015	708,296	7,646	5,778	412,082	164	283,012	160,004	1,049	22,709	-2,835	371	1,598,277
2016	614,422	5,989	6,393	459,008	89	290,114	176,609	1,517	25,929	-3,353	216	1,576,934
2017	616,784	5,720	4,644	409,821	115	281,030	205,416	2,431	26,189	-3,560	364	1,548,953
Rolling 12 Months Ending in August												
2016	904,511	8,728	8,893	664,744	NM	423,781	246,245	1,961	39,212	-4,622	403	2,293,980
2017	925,661	8,402	7,132	605,288	NM	415,316	275,456	3,185	40,847	-5,836	459	2,276,100

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

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

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,374	1,400	625,841	3,902	380,928	17,821	33,886	235,404	-1,057	7,126	1,615,768
Year 2015												
January	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
Year 2016												
January	28,568	364	42	48,897	367	34,551	2,100	1,391	19,506	-82	605	136,308
February	22,053	401	99	42,799	336	31,357	2,082	2,237	20,553	-66	543	122,395
March	14,354	205	138	45,836	367	31,704	1,956	2,491	22,334	-93	556	119,847
April	17,802	193	97	45,069	321	28,329	1,706	2,717	20,533	-84	575	117,259
May	18,845	238	124	49,738	284	30,046	1,714	3,332	19,730	-64	636	124,623
June	28,662	207	131	59,424	347	30,175	1,314	3,322	17,327	-88	609	141,430
July	34,566	300	136	70,502	322	32,430	1,238	3,789	19,049	-106	618	162,843
August	34,589	324	140	73,267	331	33,599	1,213	3,659	15,487	-115	627	163,120
Sept	30,149	259	113	58,800	344	31,529	995	3,417	17,316	-89	579	143,412
October	25,544	236	141	46,992	239	30,717	1,065	2,966	20,773	-90	565	129,150
November	21,420	338	116	42,479	338	32,097	1,003	2,512	19,672	-85	576	120,466
December	30,591	309	124	42,039	304	34,394	1,434	2,052	23,124	-96	637	134,914
Year 2017												
January	28,560	277	132	38,789	348	34,695	1,951	2,024	21,515	-90	584	128,785
February	21,282	212	102	33,664	322	29,650	1,738	2,349	22,081	-90	519	111,830
March	22,573	162	122	39,713	362	30,400	2,049	4,132	25,703	-66	527	125,678
April	21,743	186	121	36,240	285	26,526	2,092	4,449	25,356	-71	508	117,435
May	22,974	238	112	40,807	353	29,581	2,236	5,370	22,855	-73	545	124,998
June	25,559	252	108	50,572	335	31,988	1,994	5,805	20,092	-93	551	137,165
July	30,278	242	107	64,103	375	33,440	1,923	5,113	17,372	-114	574	153,413
August	28,300	240	108	61,767	389	33,717	1,639	5,003	15,042	-107	583	146,680
Year to Date												
2015	244,837	5,262	1,105	413,607	2,454	257,221	12,885	16,106	130,003	-703	4,480	1,087,257
2016	199,438	2,232	906	435,531	2,675	252,190	13,324	22,938	154,520	-698	4,768	1,087,826
2017	201,270	1,809	911	365,655	2,768	249,998	15,622	34,246	170,018	-705	4,391	1,045,984
Rolling 12 Months Ending in August												
2016	297,210	3,210	1,402	641,764	3,738	375,468	18,435	29,793	227,375	-981	7,127	1,604,540
2017	308,974	2,951	1,405	555,965	3,995	378,736	20,119	45,194	250,902	-1,064	6,748	1,573,926

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

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

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
Year 2016															
January	43	11	1	648	0	0	NM	23	235	0	91	1,057	409	432	432
February	47	13	1	550	0	0	NM	45	207	0	76	944	468	512	512
March	44	NM	1	595	0	0	NM	47	247	0	98	1,043	608	655	655
April	29	8	0	615	0	0	NM	44	223	0	97	1,022	661	705	705
May	26	8	0	650	0	0	NM	54	216	0	95	1,055	719	773	773
June	28	6	0	694	0	0	NM	62	201	0	82	1,079	723	785	785
July	30	9	1	763	0	0	NM	69	229	0	97	1,204	743	812	812
August	33	14	0	781	0	0	NM	59	224	0	96	1,212	718	777	777
Sept	34	7	0	675	0	0	NM	56	200	0	89	1,065	643	699	699
October	36	8	0	583	0	0	NM	45	207	0	87	969	578	623	623
November	39	NM	0	591	0	0	NM	38	197	0	84	961	467	505	505
December	45	10	1	605	0	0	NM	24	209	0	83	981	443	468	468
Year 2017															
January	40	18	1	662	0	0	NM	23	227	0	86	1,060	481	503	503
February	31	9	1	576	0	0	NM	27	204	0	79	931	526	553	553
March	35	NM	1	638	0	0	NM	47	216	0	82	1,045	703	751	751
April	22	8	0	529	0	0	NM	50	199	0	81	903	760	809	809
May	23	9	0	573	0	0	NM	67	223	0	95	1,006	809	876	876
June	24	8	0	635	0	0	NM	72	213	0	83	1,050	811	882	882
July	29	11	0	680	0	0	NM	64	211	0	94	1,102	878	942	942
August	27	11	1	696	0	0	NM	58	214	0	95	1,116	850	909	909
Year to Date															
2015	365	157	5	4,910	0	0	23	296	1,849	0	769	8,375	4,003	4,299	4,299
2016	281	75	4	5,296	0	0	NM	401	1,783	0	733	8,617	5,049	5,450	5,450
2017	232	86	5	4,989	0	0	NM	408	1,706	0	693	8,214	5,817	6,226	6,226
Rolling 12 Months Ending in August															
2016	425	NM	8	7,857	0	0	NM	521	2,737	0	1,134	12,837	6,736	7,257	7,257
2017	387	NM	6	7,443	0	0	NM	572	2,519	0	1,037	12,190	7,948	8,520	8,520

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
Year 2016															
January	876	43	79	7,746	893	0	136	NM	2,491	0	420	12,684	98	NM	NM
February	817	43	70	7,198	828	0	131	3	2,296	0	372	11,758	108	111	111
March	839	27	82	7,551	868	0	147	NM	2,357	0	412	12,284	150	NM	NM
April	713	25	81	7,250	819	0	131	NM	2,165	0	424	11,611	164	NM	NM
May	736	50	88	7,554	681	0	130	NM	2,324	0	453	12,018	181	NM	NM
June	824	36	86	7,723	720	0	105	NM	2,362	0	444	12,303	183	NM	NM
July	884	49	87	8,095	721	0	101	NM	2,467	0	474	12,883	190	NM	NM
August	870	49	88	8,137	756	0	87	NM	2,422	0	486	12,898	186	NM	NM
Sept	718	35	84	7,695	681	0	60	3	2,285	0	473	12,034	170	173	173
October	669	64	NM	7,526	646	0	80	3	2,274	0	406	11,718	156	158	158
November	595	40	69	7,781	641	0	68	2	2,379	0	407	11,982	123	125	125
December	691	65	79	7,973	680	0	123	NM	2,452	0	400	12,464	114	NM	NM
Year 2017															
January	786	42	69	7,848	751	0	132	NM	2,450	0	399	12,479	120	NM	NM
February	683	35	65	6,975	808	0	120	NM	2,323	0	380	11,389	139	NM	NM
March	684	36	86	7,287	825	0	136	2	2,382	0	418	11,856	210	212	212
April	601	34	54	7,046	781	0	131	NM	2,267	0	419	11,335	226	NM	NM
May	646	35	72	7,145	805	0	143	4	2,246	0	405	11,500	250	254	254
June	714	35	84	7,382	808	0	133	8	2,325	0	424	11,912	254	262	262
July	717	34	85	7,798	837	0	130	7	2,504	0	496	12,608	264	271	271
August	717	34	84	7,617	942	0	118	7	2,550	0	494	12,563	258	264	264
Year to Date															
2015	7,434	412	670	57,829	6,370	0	940	15	19,111	0	3,597	96,378	998	1,013	1,013
2016	6,558	321	662	61,253	6,286	0	969	23	18,884	0	3,484	98,440	1,260	1,283	1,283
2017	5,549	284	598	59,099	6,557	0	1,043	32	19,047	0	3,435	95,643	1,722	1,754	1,754
Rolling 12 Months Ending in August															
2016	10,020	471	982	91,779	9,317	0	1,438	NM	28,388	0	5,349	147,773	1,713	NM	NM
2017	8,221	487	NM	90,073	9,204	0	1,374	NM	28,437	0	5,120	143,840	2,284	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	513
February	614
March	824
April	939
May	1,044
June	1,086
July	1,133
August	1,100
Sept	977
October	874
November	717
December	644
Year 2017	
January	682
February	784
March	1,142
April	1,282
May	1,420
June	1,460
July	1,487
August	1,438
Year to Date	
2015	4,715
2016	7,252
2017	9,694
Rolling 12 Months Ending in August	
2016	9,536
2017	12,906

See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	9,825	11,020	-10.8%	203	264	9,256	10,370	110	125	257	262
Connecticut	3,209	3,394	-5.5%	6	NM	3,139	3,303	26	39	39	48
Maine	899	1,182	-24.0%	0	NM	686	974	20	19	193	189
Massachusetts	3,262	3,665	-11.0%	59	93	3,128	3,496	52	54	22	22
New Hampshire	1,690	1,862	-9.2%	63	103	1,618	1,750	6	NM	3	NM
Rhode Island	597	775	-22.9%	0	NM	591	767	6	NM	0	0
Vermont	168	142	18.3%	75	63	93	79	0	NM	0	0
Middle Atlantic	36,267	44,164	-17.9%	3,154	3,610	32,508	39,937	210	207	394	410
New Jersey	5,913	8,437	-29.9%	6	-3	5,780	8,310	61	65	65	65
New York	12,127	14,144	-14.3%	3,143	3,606	8,804	10,337	115	122	65	79
Pennsylvania	18,227	21,583	-15.6%	5	NM	17,924	21,290	34	20	264	266
East North Central	51,356	58,131	-11.7%	22,710	25,904	27,442	31,192	183	191	1,021	843
Illinois	15,235	17,729	-14.1%	450	733	14,484	16,721	41	36	260	239
Indiana	9,256	9,743	-5.0%	7,971	8,596	799	827	26	28	460	292
Michigan	9,879	11,195	-11.8%	7,061	8,091	2,613	2,879	79	95	125	130
Ohio	10,827	12,599	-14.1%	2,281	2,895	8,466	9,618	28	NM	52	69
Wisconsin	6,160	6,865	-10.3%	4,947	5,589	1,079	1,147	9	NM	124	113
West North Central	29,993	32,113	-6.6%	26,540	28,476	3,063	3,185	53	69	337	383
Iowa	4,938	4,987	-1.0%	3,958	4,040	776	726	19	25	185	197
Kansas	4,400	4,864	-9.5%	3,549	4,013	848	840	0	0	NM	NM
Minnesota	5,326	5,639	-5.6%	4,567	4,775	639	715	16	24	104	125
Missouri	8,060	8,262	-2.4%	7,810	7,920	231	318	16	19	3	NM
Nebraska	3,346	3,701	-9.6%	3,123	3,473	191	196	1	NM	30	31
North Dakota	3,175	3,623	-12.4%	2,861	3,352	303	257	0	NM	12	NM
South Dakota	748	1,036	-27.8%	673	904	76	133	NM	NM	0	0
South Atlantic	78,740	83,808	-6.0%	65,638	68,987	11,285	13,064	94	140	1,723	1,617
Delaware	624	1,105	-43.5%	3	NM	490	972	0	NM	130	122
District of Columbia	3	NM	NM	0	0	2	0	0	NM	0	0
Florida	24,129	23,905	0.9%	22,393	21,654	1,263	1,782	6	NM	467	460
Georgia	13,014	13,781	-5.6%	10,821	11,944	1,743	1,413	1	NM	449	424
Maryland	3,036	4,391	-30.8%	1	NM	2,967	4,310	45	59	24	20
North Carolina	13,090	14,062	-6.9%	11,657	12,657	1,239	1,216	19	23	175	165
South Carolina	8,686	9,155	-5.1%	8,232	8,653	281	340	0	NM	173	159
Virginia	9,283	9,867	-5.9%	7,263	8,044	1,795	1,585	23	40	202	198
West Virginia	6,874	7,536	-8.8%	5,268	6,022	1,505	1,445	0	0	102	69
East South Central	34,582	37,621	-8.1%	29,471	31,590	4,324	5,239	12	NM	775	776
Alabama	13,529	14,147	-4.4%	9,432	9,356	3,735	4,431	0	0	362	360
Kentucky	6,912	8,296	-16.7%	6,836	8,126	27	117	0	0	49	53
Mississippi	6,060	6,978	-13.2%	5,362	6,136	537	675	0	NM	161	165
Tennessee	8,082	8,201	-1.5%	7,842	7,972	25	17	12	NM	203	197
West South Central	67,566	70,468	-4.1%	23,988	25,975	37,150	37,547	88	98	6,340	6,847
Arkansas	6,427	6,557	-2.0%	4,753	4,569	1,532	1,851	1	NM	142	136
Louisiana	9,136	10,047	-9.1%	5,573	6,502	999	790	11	NM	2,552	2,740
Oklahoma	6,975	7,505	-7.1%	4,074	4,867	2,824	2,559	0	NM	77	76
Texas	45,028	46,359	-2.9%	9,589	10,037	31,794	32,347	76	80	3,569	3,895
Mountain	35,886	36,126	-0.7%	28,290	28,165	7,256	7,629	56	51	284	282
Arizona	11,427	12,117	-5.7%	9,428	9,389	1,983	2,714	16	14	0	0
Colorado	4,853	5,003	-3.0%	3,933	4,160	909	834	NM	NM	6	NM
Idaho	1,283	1,476	-13.0%	802	999	429	432	4	NM	48	44
Montana	2,468	2,365	4.4%	748	691	1,718	1,671	0	0	2	NM
Nevada	4,233	4,132	2.4%	3,130	3,214	1,050	877	14	14	40	27
New Mexico	3,413	2,705	26.2%	2,753	2,069	650	625	10	11	0	NM
Utah	3,774	3,785	-0.3%	3,330	3,345	344	293	7	8	93	139
Wyoming	4,435	4,544	-2.4%	4,167	4,298	174	184	0	0	94	63
Pacific Contiguous	35,141	35,326	-0.5%	19,465	19,054	14,031	14,583	248	261	1,398	1,428
California	21,943	21,268	3.2%	9,495	8,435	11,003	11,337	240	250	1,206	1,246
Oregon	4,485	4,779	-6.2%	2,954	3,266	1,473	1,455	7	NM	50	51
Washington	8,713	9,279	-6.1%	7,015	7,354	1,555	1,791	NM	NM	142	131
Pacific Noncontiguous	1,341	1,335	0.4%	880	858	366	375	62	53	34	49
Alaska	485	456	6.2%	436	418	16	15	NM	13	10	NM
Hawaii	856	879	-2.6%	443	440	350	360	39	40	23	39
U.S. Total	380,697	410,113	-7.2%	220,339	232,883	146,680	163,120	1,116	1,212	12,563	12,898

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	70,063	74,569	-6.0%	1,761	1,817	65,477	69,957	777	870	2,048	1,925
Connecticut	22,884	24,049	-4.8%	54	NM	22,290	23,444	209	263	330	315
Maine	7,657	8,319	-8.0%	0	NM	5,988	6,730	141	140	1,529	1,449
Massachusetts	22,929	23,329	-1.7%	411	421	22,009	22,389	341	378	168	141
New Hampshire	11,310	12,830	-11.8%	629	729	10,616	12,041	44	40	21	NM
Rhode Island	3,814	4,671	-18.4%	3	7	3,771	4,617	40	47	0	0
Vermont	1,469	1,371	7.2%	663	632	803	737	2	NM	0	0
Middle Atlantic	263,291	288,569	-8.8%	23,418	24,370	235,412	259,566	1,504	1,540	2,956	3,094
New Jersey	44,682	52,614	-15.1%	39	-4	43,695	51,694	455	464	492	460
New York	86,039	91,683	-6.2%	23,297	24,323	61,363	65,830	787	857	592	673
Pennsylvania	132,570	144,272	-8.1%	81	NM	130,355	142,042	263	219	1,872	1,960
East North Central	384,854	396,808	-3.0%	165,527	169,947	210,622	218,987	1,292	1,320	7,413	6,554
Illinois	119,322	125,431	-4.9%	3,413	3,859	113,725	119,572	293	271	1,890	1,730
Indiana	66,249	68,856	-3.8%	56,709	58,220	6,251	8,318	176	183	3,113	2,135
Michigan	76,046	78,295	-2.9%	55,411	54,702	19,167	21,905	561	647	906	1,041
Ohio	80,335	79,509	1.0%	16,233	17,956	63,453	60,889	187	106	462	558
Wisconsin	42,902	44,717	-4.1%	33,761	35,212	8,025	8,303	74	113	1,042	1,090
West North Central	228,987	221,760	3.3%	189,521	186,888	36,358	31,567	393	481	2,715	2,825
Iowa	38,256	36,236	5.6%	28,658	26,652	8,123	7,986	134	182	1,340	1,416
Kansas	34,585	33,109	4.5%	23,767	24,427	10,786	8,615	0	0	32	68
Minnesota	39,373	40,207	-2.1%	31,008	32,324	7,256	6,789	126	156	983	938
Missouri	58,606	54,828	6.9%	56,473	52,510	1,981	2,151	119	131	32	36
Nebraska	24,349	25,695	-5.2%	21,095	23,262	2,999	2,173	13	12	242	248
North Dakota	25,834	24,596	5.0%	21,756	21,972	3,993	2,505	0	NM	85	119
South Dakota	7,985	7,089	12.7%	6,765	5,742	1,220	1,347	NM	NM	0	0
South Atlantic	540,990	559,776	-3.4%	451,744	465,574	75,651	80,714	776	983	12,819	12,504
Delaware	4,375	6,219	-29.6%	12	NM	3,473	5,309	NM	NM	886	859
District of Columbia	47	38	22.9%	0	0	31	0	16	38	0	0
Florida	160,411	162,528	-1.3%	148,591	146,666	8,209	12,274	53	70	3,556	3,518
Georgia	87,388	91,912	-4.9%	73,307	79,025	10,631	9,577	5	10	3,446	3,300
Maryland	22,489	25,786	-12.8%	NM	14	21,964	25,219	328	375	189	178
North Carolina	88,992	90,605	-1.8%	79,157	81,922	8,590	7,276	152	181	1,093	1,225
South Carolina	62,992	66,641	-5.5%	59,758	63,171	1,873	2,233	1	NM	1,360	1,228
Virginia	64,070	64,268	-0.3%	51,747	53,439	10,574	8,940	216	295	1,533	1,595
West Virginia	50,227	51,779	-3.0%	39,166	41,292	10,305	9,886	0	0	757	602
East South Central	239,239	250,534	-4.5%	206,290	212,101	27,051	32,340	85	108	5,812	5,985
Alabama	94,618	97,062	-2.5%	69,727	67,178	22,213	27,075	0	0	2,678	2,809
Kentucky	50,059	54,758	-8.6%	49,470	53,930	206	428	0	0	383	401
Mississippi	41,292	45,382	-9.0%	35,558	39,384	4,450	4,702	3	NM	1,280	1,289
Tennessee	53,270	53,333	-0.1%	51,535	51,610	182	135	82	101	1,470	1,486
West South Central	457,393	473,682	-3.4%	146,610	165,139	260,952	255,587	656	680	49,175	52,275
Arkansas	39,226	41,639	-5.8%	28,308	29,733	9,788	10,821	4	NM	1,126	1,081
Louisiana	64,197	73,596	-12.8%	37,496	44,876	7,118	7,398	97	115	19,485	21,207
Oklahoma	49,775	51,743	-3.8%	25,506	29,844	23,750	21,287	0	NM	520	601
Texas	304,195	306,704	-0.8%	55,300	60,686	220,296	216,081	555	550	28,045	29,387
Mountain	241,647	244,412	-1.1%	188,981	191,953	50,256	49,875	398	356	2,011	2,229
Arizona	70,918	74,336	-4.6%	60,661	61,349	10,145	12,890	111	97	0	0
Colorado	36,673	36,777	-0.3%	28,306	28,721	8,289	7,988	29	24	49	44
Idaho	11,692	11,667	0.2%	7,847	7,905	3,441	3,353	34	5	370	404
Montana	18,820	18,045	4.3%	8,293	7,453	10,509	10,573	0	0	18	19
Nevada	26,128	27,368	-4.5%	18,244	20,689	7,599	6,365	93	97	191	217
New Mexico	23,031	21,212	8.6%	17,217	15,771	5,737	5,357	76	75	1	NM
Utah	24,019	24,511	-2.0%	20,752	22,251	2,682	1,478	55	58	530	724
Wyoming	30,366	30,495	-0.4%	27,660	27,814	1,854	1,871	0	0	852	811
Pacific Contiguous	262,387	251,803	4.2%	168,555	152,610	81,498	86,565	1,924	1,907	10,410	10,721
California	141,778	134,586	5.3%	64,553	54,834	66,385	68,615	1,849	1,824	8,991	9,313
Oregon	39,655	39,970	-0.8%	31,090	29,723	8,113	9,805	53	55	399	387
Washington	80,954	77,246	4.8%	72,912	68,053	7,000	8,144	NM	29	1,020	1,020
Pacific Noncontiguous	9,943	9,903	0.4%	6,545	6,535	2,708	2,668	407	372	283	328
Alaska	3,466	3,605	-3.9%	3,114	3,278	117	140	157	108	77	79
Hawaii	6,477	6,298	2.8%	3,431	3,257	2,590	2,527	250	264	206	249
U.S. Total	2,698,794	2,771,816	-2.6%	1,548,953	1,576,934	1,045,984	1,087,826	8,214	8,617	95,643	98,440

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	6	214	-97.1%	0	48	3	163	0	0	NM	NM
Connecticut	-1	12	-111.4%	0	0	-1	12	0	0	0	0
Maine	7	5	50.5%	0	0	4	4	0	0	NM	1
Massachusetts	0	149	-100.0%	0	0	0	147	0	0	0	NM
New Hampshire	0	48	-99.2%	0	48	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,218	6,553	-35.6%	0	0	4,177	6,488	0	0	41	65
New Jersey	102	153	-33.5%	0	0	102	153	0	0	0	0
New York	30	371	-91.8%	0	0	13	342	0	0	17	29
Pennsylvania	4,085	6,029	-32.2%	0	0	4,061	5,993	0	0	24	36
East North Central	25,182	29,073	-13.4%	15,519	17,013	9,455	11,867	7	6	202	187
Illinois	5,121	6,402	-20.0%	379	394	4,586	5,873	NM	NM	152	134
Indiana	6,989	7,232	-3.4%	6,693	6,907	293	320	4	4	0	NM
Michigan	3,621	4,001	-9.5%	3,576	3,955	39	38	0	0	NM	NM
Ohio	6,235	7,722	-19.3%	1,695	2,073	4,536	5,636	0	0	NM	12
Wisconsin	3,216	3,717	-13.5%	3,176	3,684	0	0	0	0	40	33
West North Central	18,915	19,946	-5.2%	18,711	19,676	0	NM	7	15	197	253
Iowa	2,949	3,160	-6.7%	2,811	2,982	0	0	7	NM	131	165
Kansas	2,231	2,773	-19.6%	2,231	2,773	0	0	0	0	0	0
Minnesota	2,258	2,288	-1.3%	2,230	2,240	0	0	0	NM	28	48
Missouri	6,550	6,411	2.2%	6,550	6,404	0	NM	0	3	0	NM
Nebraska	2,293	2,314	-0.9%	2,263	2,284	0	0	0	0	30	30
North Dakota	2,451	2,779	-11.8%	2,444	2,772	0	0	0	0	NM	NM
South Dakota	183	222	-17.6%	183	222	0	0	0	0	0	0
South Atlantic	21,984	27,772	-20.8%	19,635	24,055	2,273	3,624	3	NM	73	88
Delaware	22	109	-79.7%	0	0	22	109	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,477	4,499	-22.7%	3,411	4,341	48	143	0	0	NM	NM
Georgia	3,535	4,621	-23.5%	3,519	4,601	0	0	0	0	NM	NM
Maryland	858	1,852	-53.7%	0	0	851	1,846	0	0	7	6
North Carolina	4,363	5,296	-17.6%	4,330	5,200	NM	NM	3	2	12	NM
South Carolina	1,965	2,404	-18.2%	1,963	2,398	0	0	0	0	2	NM
Virginia	1,297	1,716	-24.4%	1,227	1,578	52	108	0	NM	17	NM
West Virginia	6,467	7,275	-11.1%	5,185	5,937	1,282	1,336	0	0	0	2
East South Central	12,503	14,959	-16.4%	12,270	14,564	165	309	0	0	67	87
Alabama	3,223	3,785	-14.9%	3,218	3,776	0	0	0	0	NM	NM
Kentucky	5,762	6,856	-16.0%	5,762	6,856	0	0	0	0	0	0
Mississippi	426	644	-33.8%	261	335	165	309	0	0	0	0
Tennessee	3,092	3,675	-15.9%	3,029	3,597	0	0	0	0	62	78
West South Central	19,411	19,678	-1.4%	9,914	10,145	9,470	9,495	0	0	27	NM
Arkansas	3,010	2,606	15.5%	2,563	2,145	443	456	0	0	4	4
Louisiana	1,066	1,393	-23.5%	509	949	557	444	0	0	0	0
Oklahoma	1,930	2,272	-15.0%	1,730	2,030	177	207	0	0	24	NM
Texas	13,406	13,408	0.0%	5,112	5,021	8,293	8,387	0	0	0	0
Mountain	16,361	16,250	0.7%	14,555	14,437	1,727	1,695	0	0	80	119
Arizona	3,156	3,278	-3.7%	3,156	3,278	0	0	0	0	0	0
Colorado	2,602	2,907	-10.5%	2,601	2,902	0	NM	0	0	1	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	1,559	1,507	3.4%	26	NM	1,533	1,484	0	0	0	NM
Nevada	303	457	-33.8%	208	352	95	105	0	0	0	0
New Mexico	2,109	1,379	52.9%	2,109	1,379	0	0	0	0	0	0
Utah	2,547	2,589	-1.6%	2,468	2,472	38	NM	0	0	42	86
Wyoming	4,080	4,128	-1.2%	3,988	4,032	61	70	0	0	31	26
Pacific Contiguous	1,247	1,193	4.6%	332	357	888	810	0	0	27	26
California	25	24	5.1%	0	0	0	0	0	0	25	24
Oregon	332	357	-6.9%	332	357	0	0	0	0	0	0
Washington	890	812	9.6%	0	0	888	810	0	0	NM	2
Pacific Noncontiguous	178	172	3.3%	NM	23	143	136	9	9	0	NM
Alaska	NM	45	NM	NM	23	13	NM	9	9	0	0
Hawaii	130	127	1.7%	0	0	130	124	0	0	0	NM
U.S. Total	120,005	135,811	-11.6%	90,961	100,319	28,300	34,589	27	33	717	870

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	1,458	1,736	-16.0%	164	259	1,266	1,459	0	0	NM	18
Connecticut	93	70	32.3%	0	0	93	70	0	0	0	0
Maine	64	44	44.6%	0	0	37	38	0	0	NM	6
Massachusetts	1,136	1,363	-16.6%	0	0	1,136	1,350	0	0	0	12
New Hampshire	164	259	-36.6%	164	259	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	33,652	39,502	-14.8%	0	0	33,281	38,979	0	0	370	523
New Jersey	801	905	-11.6%	0	0	801	905	0	0	0	0
New York	620	1,436	-56.8%	0	0	443	1,201	0	0	177	235
Pennsylvania	32,231	37,160	-13.3%	0	0	32,038	36,873	0	0	193	287
East North Central	188,583	184,261	2.3%	114,062	110,696	72,931	72,007	50	63	1,540	1,495
Illinois	38,692	39,944	-3.1%	2,830	2,491	34,669	36,448	NM	21	1,161	984
Indiana	48,636	48,976	-0.7%	46,950	46,332	1,668	2,616	18	27	0	NM
Michigan	29,692	27,607	7.6%	29,334	27,231	312	288	0	15	45	73
Ohio	47,934	45,682	4.9%	11,621	12,897	36,281	32,655	0	0	NM	130
Wisconsin	23,629	22,052	7.2%	23,327	21,745	0	0	0	0	302	307
West North Central	127,230	123,194	3.3%	125,458	121,215	1	13	74	105	1,697	1,861
Iowa	18,347	17,170	6.9%	17,219	15,899	0	0	57	83	1,070	1,189
Kansas	13,768	15,327	-10.2%	13,768	15,327	0	0	0	0	0	0
Minnesota	15,367	15,044	2.1%	15,030	14,677	0	0	1	NM	336	365
Missouri	46,551	42,324	10.0%	46,534	42,274	1	13	16	21	0	16
Nebraska	14,411	14,223	1.3%	14,169	13,987	0	0	0	0	242	236
North Dakota	17,400	17,600	-1.1%	17,351	17,544	0	0	0	0	49	56
South Dakota	1,386	1,506	-8.0%	1,386	1,506	0	0	0	0	0	0
South Atlantic	148,952	163,524	-8.9%	133,648	143,296	14,699	19,365	36	43	570	820
Delaware	222	449	-50.5%	0	0	222	449	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	26,611	25,583	4.0%	26,412	24,881	75	584	0	0	124	118
Georgia	22,790	26,135	-12.8%	22,655	25,984	0	0	0	0	NM	151
Maryland	5,459	9,511	-42.6%	0	0	5,409	9,463	0	0	50	49
North Carolina	25,240	25,749	-2.0%	25,002	25,365	92	241	28	32	118	111
South Carolina	13,235	15,338	-13.7%	13,219	15,254	0	0	0	0	NM	84
Virginia	8,344	11,729	-28.9%	7,883	11,113	325	411	8	NM	128	195
West Virginia	47,051	49,029	-4.0%	38,476	40,700	8,575	8,217	0	0	0	112
East South Central	86,217	92,307	-6.6%	83,995	89,677	1,707	1,937	0	0	515	693
Alabama	22,020	22,193	-0.8%	21,983	22,133	0	0	0	0	NM	60
Kentucky	41,845	45,170	-7.4%	41,845	45,170	0	0	0	0	0	0
Mississippi	3,265	3,618	-9.7%	1,558	1,681	1,707	1,937	0	0	0	0
Tennessee	19,086	21,326	-10.5%	18,609	20,694	0	0	0	0	478	632
West South Central	126,371	108,425	16.6%	61,974	55,474	64,166	52,645	0	0	232	305
Arkansas	17,447	14,115	23.6%	15,567	11,254	1,849	2,827	0	0	30	34
Louisiana	8,525	8,391	1.6%	5,003	5,716	3,522	2,675	0	0	0	0
Oklahoma	11,054	11,203	-1.3%	9,805	9,738	1,047	1,195	0	0	201	271
Texas	89,345	74,716	19.6%	31,598	28,766	57,747	45,949	0	0	0	0
Mountain	106,602	103,126	3.4%	96,149	92,575	10,060	9,962	0	0	393	590
Arizona	20,598	19,229	7.1%	20,598	19,229	0	0	0	0	0	0
Colorado	19,763	19,707	0.3%	19,756	19,664	0	39	0	0	6	NM
Idaho	39	44	-11.9%	0	0	0	0	0	0	39	44
Montana	8,853	8,805	0.5%	193	134	8,657	8,666	0	0	2	NM
Nevada	1,440	1,654	-12.9%	780	1,067	660	587	0	0	0	0
New Mexico	13,001	11,247	15.6%	13,001	11,247	0	0	0	0	0	0
Utah	16,602	16,293	1.9%	16,197	15,746	271	222	0	0	134	324
Wyoming	26,308	26,148	0.6%	25,624	25,487	472	448	0	0	212	213
Pacific Contiguous	3,544	3,228	9.8%	1,158	1,021	2,181	1,972	0	0	205	234
California	187	211	-11.6%	0	0	0	0	0	0	187	211
Oregon	1,158	1,021	13.3%	1,158	1,021	0	0	0	0	0	0
Washington	2,199	1,995	10.2%	0	0	2,181	1,972	0	0	NM	23
Pacific Noncontiguous	1,227	1,396	-12.1%	NM	209	978	1,098	72	70	0	NM
Alaska	332	383	-13.5%	NM	209	83	105	72	70	0	0
Hawaii	895	1,013	-11.6%	0	0	895	993	0	0	0	NM
U.S. Total	823,835	820,699	0.4%	616,784	614,422	201,270	199,438	232	281	5,549	6,558

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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, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	23	72	-67.5%	3	7	17	55	2	NM	NM	5
Connecticut	5	29	-81.7%	1	NM	NM	27	NM	NM	0	NM
Maine	2	12	-87.3%	0	NM	1	8	0	NM	NM	NM
Massachusetts	14	24	-42.7%	1	2	11	20	1	NM	0	NM
New Hampshire	2	5	-51.4%	2	3	NM	NM	0	NM	0	NM
Rhode Island	NM	NM	NM	0	NM	NM	NM	0	NM	0	0
Vermont	0	NM	NM	0	NM	0	0	0	NM	0	0
Middle Atlantic	49	148	-66.6%	6	78	38	60	3	7	2	3
New Jersey	3	6	-54.9%	0	NM	3	5	0	NM	0	NM
New York	25	110	-76.9%	6	77	15	26	3	6	2	2
Pennsylvania	21	31	-32.5%	0	NM	20	30	0	NM	NM	NM
East North Central	44	45	-2.1%	31	26	11	18	0	NM	1	1
Illinois	3	5	-45.0%	0	NM	2	4	0	NM	0	0
Indiana	8	8	-3.1%	6	7	0	0	0	NM	1	1
Michigan	18	10	79.5%	17	10	0	0	0	NM	NM	NM
Ohio	14	18	-24.5%	5	5	9	13	0	NM	0	NM
Wisconsin	3	5	-40.3%	3	4	0	1	0	NM	NM	NM
West North Central	17	17	-2.1%	17	17	0	NM	NM	NM	0	NM
Iowa	4	6	-20.7%	4	6	NM	NM	0	NM	0	NM
Kansas	2	NM	NM	2	NM	0	0	0	0	0	0
Minnesota	2	3	-9.0%	NM	2	0	NM	NM	NM	0	NM
Missouri	3	5	-37.8%	3	5	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	2	2	50.7%	2	2	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	148	286	-48.1%	116	233	22	44	5	NM	NM	NM
Delaware	NM	5	NM	0	NM	NM	4	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	55	156	-64.4%	54	153	NM	NM	0	0	NM	NM
Georgia	8	NM	NM	3	4	NM	NM	1	NM	NM	NM
Maryland	12	23	-47.0%	NM	NM	12	21	0	NM	0	NM
North Carolina	16	18	-8.7%	13	14	3	NM	0	NM	NM	NM
South Carolina	8	7	14.2%	7	6	0	NM	0	NM	1	NM
Virginia	35	58	-38.6%	28	45	4	12	4	NM	NM	NM
West Virginia	12	11	4.5%	11	9	1	2	0	0	0	0
East South Central	24	25	-4.5%	23	22	NM	NM	0	NM	NM	NM
Alabama	NM	NM	NM	2	1	NM	NM	0	0	NM	NM
Kentucky	7	8	-8.9%	7	8	0	0	0	0	0	0
Mississippi	1	1	-26.1%	1	1	0	0	0	0	0	0
Tennessee	13	13	1.4%	13	12	0	NM	0	NM	0	NM
West South Central	12	10	16.0%	7	6	4	4	0	NM	NM	NM
Arkansas	NM	NM	NM	NM	1	1	0	0	0	NM	NM
Louisiana	NM	0	NM	NM	0	0	0	0	0	0	0
Oklahoma	NM	1	NM	NM	1	0	0	0	NM	0	NM
Texas	9	7	15.4%	5	3	3	4	0	NM	0	NM
Mountain	14	14	-2.3%	13	12	1	2	0	NM	0	NM
Arizona	3	2	39.5%	3	2	0	0	0	NM	0	0
Colorado	1	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	NM	2	NM	NM	NM	1	1	0	0	0	0
Nevada	2	1	34.2%	1	1	0	0	0	0	0	0
New Mexico	3	3	7.8%	3	3	0	0	0	0	0	NM
Utah	3	3	-5.2%	2	3	0	NM	0	0	0	NM
Wyoming	2	3	-29.8%	2	3	0	0	0	0	0	NM
Pacific Contiguous	5	7	-29.3%	4	4	0	NM	0	NM	NM	2
California	3	5	-34.3%	3	3	0	NM	0	NM	NM	2
Oregon	1	1	9.0%	1	1	0	0	0	NM	0	0
Washington	NM	2	NM	NM	NM	0	1	0	NM	NM	NM
Pacific Noncontiguous	650	649	0.2%	482	483	147	139	0	1	21	26
Alaska	72	59	21.8%	68	56	0	0	NM	NM	5	3
Hawaii	578	589	-1.9%	415	427	147	139	0	1	16	22
U.S. Total	988	1,275	-22.5%	703	888	240	324	11	14	34	49

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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 August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	230	359	-36.0%	29	44	161	265	29	33	11	18
Connecticut	47	76	-37.5%	4	5	41	63	NM	NM	1	NM
Maine	32	109	-70.4%	0	NM	21	94	1	NM	9	14
Massachusetts	118	131	-10.2%	7	15	95	101	15	16	1	NM
New Hampshire	22	23	-4.6%	13	16	NM	NM	9	NM	0	NM
Rhode Island	NM	19	NM	3	7	NM	6	2	NM	0	0
Vermont	2	NM	NM	2	NM	0	0	0	NM	0	0
Middle Atlantic	434	797	-45.5%	93	265	287	473	26	25	28	35
New Jersey	43	68	-36.4%	0	NM	43	64	0	NM	NM	NM
New York	237	535	-55.6%	93	262	95	224	23	23	26	25
Pennsylvania	154	194	-21.0%	0	NM	149	185	3	NM	NM	8
East North Central	319	379	-15.8%	201	230	104	134	3	3	11	12
Illinois	31	48	-35.7%	3	3	28	44	0	1	0	0
Indiana	76	81	-6.4%	69	74	0	NM	0	NM	7	7
Michigan	70	90	-22.1%	67	87	0	0	2	1	NM	1
Ohio	120	139	-13.5%	42	48	77	88	0	NM	1	2
Wisconsin	22	20	5.7%	21	17	0	3	0	NM	NM	NM
West North Central	186	148	26.0%	183	143	2	NM	1	NM	1	NM
Iowa	53	41	29.8%	53	40	0	NM	0	NM	0	NM
Kansas	32	15	116.3%	32	15	0	0	0	0	0	0
Minnesota	22	19	15.2%	19	15	1	NM	1	NM	1	NM
Missouri	33	48	-30.8%	33	48	0	NM	0	NM	0	0
Nebraska	NM	5	NM	NM	5	0	0	0	0	0	0
North Dakota	27	19	40.9%	27	19	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	1,286	1,713	-24.9%	1,033	1,274	190	374	21	5	42	60
Delaware	15	52	-70.2%	0	NM	15	49	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	380	576	-34.0%	371	556	2	NM	0	0	NM	NM
Georgia	78	98	-20.6%	45	49	NM	20	2	3	NM	27
Maryland	72	150	-51.6%	0	8	70	139	1	NM	1	2
North Carolina	224	208	7.8%	189	155	30	47	0	NM	NM	NM
South Carolina	86	90	-4.2%	80	79	1	NM	0	NM	6	10
Virginia	344	462	-25.4%	265	352	59	106	18	NM	NM	NM
West Virginia	85	77	10.1%	84	73	1	4	0	0	0	0
East South Central	180	204	-11.9%	166	184	NM	5	0	NM	NM	NM
Alabama	28	37	-24.2%	17	19	NM	5	0	0	NM	NM
Kentucky	67	72	-6.1%	67	72	0	0	0	0	0	0
Mississippi	7	11	-36.9%	6	10	0	0	0	0	2	1
Tennessee	77	84	-8.2%	76	83	0	NM	0	NM	1	NM
West South Central	108	106	2.5%	58	68	47	33	0	NM	3	NM
Arkansas	33	26	25.7%	NM	18	21	7	0	0	NM	NM
Louisiana	NM	11	NM	NM	9	0	2	0	0	0	0
Oklahoma	12	11	10.9%	12	10	0	0	0	NM	1	1
Texas	52	57	-8.1%	26	31	25	25	0	NM	1	NM
Mountain	149	149	0.2%	136	133	14	16	0	NM	0	NM
Arizona	38	36	6.3%	38	36	0	0	0	NM	0	0
Colorado	NM	5	NM	NM	5	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	10	13	-24.1%	NM	NM	10	13	0	0	0	0
Nevada	7	9	-25.2%	4	7	3	2	0	0	0	0
New Mexico	29	35	-16.4%	29	35	0	0	0	0	0	NM
Utah	28	20	41.2%	27	19	1	NM	0	0	0	NM
Wyoming	32	31	2.5%	32	30	0	0	0	0	0	NM
Pacific Contiguous	54	84	-36.2%	30	26	10	10	1	NM	NM	48
California	32	68	-53.4%	22	22	2	4	0	NM	6	42
Oregon	6	3	93.7%	5	3	0	0	0	NM	0	0
Washington	17	14	22.0%	NM	NM	8	7	NM	NM	NM	6
Pacific Noncontiguous	4,952	4,677	5.9%	3,790	3,623	993	921	5	7	163	127
Alaska	584	472	23.8%	551	441	0	0	NM	4	30	26
Hawaii	4,368	4,205	3.9%	3,239	3,181	993	921	2	3	134	101
U.S. Total	7,898	8,616	-8.3%	5,720	5,989	1,809	2,232	86	75	284	321

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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, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 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	27	NM	0	0	0	0	0	0	NM	27
New Jersey	6	NM	NM	0	0	0	0	0	0	6	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	178	203	-12.1%	94	86	67	100	0	0	17	NM
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	100	87	15.2%	83	72	0	0	0	0	17	NM
Ohio	67	101	-33.6%	0	0	67	100	0	0	0	NM
Wisconsin	11	14	-26.2%	11	14	0	0	0	0	0	0
West North Central	1	NM	NM	0	0	0	0	1	0	0	NM
Iowa	1	NM	NM	0	0	0	0	1	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	110	244	-55.1%	96	235	0	0	0	0	NM	9
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	96	235	-59.1%	96	235	0	0	0	0	0	0
Georgia	NM	9	NM	0	0	0	0	0	0	NM	9
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	120	-100.0%	0	120	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	120	-100.0%	0	120	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	385	446	-13.8%	350	416	0	0	0	0	35	31
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	376	436	-13.8%	350	416	0	0	0	0	26	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	10	-11.6%	0	0	0	0	0	0	9	10
Mountain	41	40	0.8%	0	0	41	40	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	40	0.8%	0	0	41	40	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	733	1,085	-32.4%	540	856	108	140	1	0	84	88

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	150	184	-18.3%	0	0	0	0	0	0	150	184
New Jersey	49	54	-10.1%	0	0	0	0	0	0	49	54
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	130	NM	0	0	0	0	0	0	NM	130
East North Central	1,351	1,720	-21.4%	635	950	622	622	0	0	94	148
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	679	515	31.8%	585	405	0	3	0	0	94	107
Ohio	622	630	-1.2%	0	0	622	619	0	0	0	NM
Wisconsin	51	79	-35.8%	51	48	0	0	0	0	0	31
West North Central	28	45	-38.3%	0	0	0	0	5	4	23	41
Iowa	28	45	-38.3%	0	0	0	0	5	4	23	41
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	680	1,681	-59.6%	574	1,613	0	0	0	0	NM	68
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	574	1,613	-64.4%	574	1,613	0	0	0	0	0	0
Georgia	NM	68	NM	0	0	0	0	0	0	NM	68
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	799	-46.5%	427	799	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	427	799	-46.5%	427	799	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	3,233	3,252	-0.6%	3,008	3,031	0	0	0	0	226	221
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,163	3,169	-0.2%	3,008	3,031	0	0	0	0	156	138
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	70	83	-15.7%	0	0	0	0	0	0	70	83
Mountain	289	284	1.7%	0	0	289	284	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	289	284	1.7%	0	0	289	284	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	6,158	7,965	-22.7%	4,644	6,393	911	906	5	4	598	662

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	5,205	6,522	-20.2%	NM	83	4,971	6,213	81	97	106	129
Connecticut	1,529	1,735	-11.8%	4	1	1,461	1,649	26	39	39	47
Maine	189	562	-66.4%	0	0	NM	499	3	NM	43	60
Massachusetts	2,435	2,836	-14.1%	NM	72	2,329	2,696	46	49	22	20
New Hampshire	481	640	-24.7%	4	10	474	625	0	NM	3	NM
Rhode Island	570	750	-24.0%	0	0	564	745	6	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	13,953	20,291	-31.2%	1,041	1,696	12,637	18,294	98	115	177	186
New Jersey	2,493	5,322	-53.2%	11	NM	2,431	5,254	17	22	34	35
New York	5,316	7,292	-27.1%	1,030	1,683	4,192	5,500	70	77	24	31
Pennsylvania	6,144	7,677	-20.0%	0	NM	6,015	7,540	11	NM	119	120
East North Central	9,394	12,791	-26.6%	4,207	6,088	4,793	6,371	140	149	253	183
Illinois	987	2,273	-56.6%	NM	332	824	1,850	38	34	63	57
Indiana	1,598	2,004	-20.3%	1,198	1,604	259	332	18	20	122	48
Michigan	2,488	3,682	-32.4%	854	1,703	1,541	1,867	52	66	41	46
Ohio	2,644	2,930	-9.8%	559	779	2,048	2,128	27	NM	10	NM
Wisconsin	1,678	1,902	-11.8%	1,534	1,670	121	194	6	NM	17	25
West North Central	2,576	3,362	-23.4%	2,254	2,765	234	511	28	33	60	52
Iowa	547	508	7.8%	491	478	NM	NM	8	NM	49	NM
Kansas	316	314	0.5%	313	303	0	0	0	0	NM	NM
Minnesota	986	1,352	-27.1%	866	1,068	105	256	9	NM	5	14
Missouri	348	789	-55.9%	206	521	NM	255	10	10	3	NM
Nebraska	146	130	12.6%	146	128	0	0	0	NM	0	1
North Dakota	98	124	-21.0%	97	121	0	0	0	0	1	NM
South Dakota	136	146	-7.2%	136	146	0	0	0	0	0	0
South Atlantic	34,327	34,817	-1.4%	27,983	27,698	5,911	6,688	48	71	385	360
Delaware	555	947	-41.4%	2	NM	457	849	0	0	96	89
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	17,042	16,326	4.4%	16,046	14,914	876	1,285	2	NM	118	120
Georgia	5,650	5,532	2.1%	4,139	4,220	1,456	1,269	0	0	55	42
Maryland	652	1,075	-39.4%	0	0	603	1,011	44	56	5	NM
North Carolina	3,650	3,931	-7.1%	3,101	3,293	537	619	1	1	11	18
South Carolina	1,569	1,762	-11.0%	1,338	1,453	223	299	0	NM	8	NM
Virginia	5,035	5,147	-2.2%	3,347	3,776	1,644	1,326	1	NM	43	45
West Virginia	174	92	89.8%	9	33	116	30	0	0	49	29
East South Central	11,918	13,353	-10.7%	7,628	8,272	4,081	4,886	11	NM	198	178
Alabama	5,574	6,018	-7.4%	1,790	1,528	3,694	4,405	0	0	91	84
Kentucky	696	901	-22.8%	649	765	25	115	0	0	21	21
Mississippi	4,695	5,158	-9.0%	4,304	4,754	360	366	0	NM	32	37
Tennessee	952	1,275	-25.3%	885	1,224	2	0	11	NM	54	36
West South Central	34,771	37,027	-6.1%	10,265	11,914	19,063	19,097	83	92	5,361	5,923
Arkansas	1,642	2,235	-26.5%	546	832	1,074	1,381	0	NM	22	21
Louisiana	5,600	6,088	-8.0%	3,264	3,558	343	244	11	NM	1,981	2,271
Oklahoma	3,684	3,830	-3.8%	2,063	2,607	1,596	1,206	0	NM	26	NM
Texas	23,846	24,874	-4.1%	4,392	4,917	16,051	16,266	71	75	3,332	3,616
Mountain	11,030	11,729	-6.0%	8,402	8,234	2,465	3,359	40	35	123	101
Arizona	4,164	4,851	-14.2%	2,628	2,454	1,522	2,385	14	12	0	0
Colorado	1,483	1,365	8.6%	1,263	1,176	218	188	0	0	2	NM
Idaho	445	485	-8.3%	261	297	175	184	3	0	6	NM
Montana	76	104	-26.6%	53	92	23	NM	0	0	0	0
Nevada	3,008	2,955	1.8%	2,769	2,730	194	192	6	6	40	27
New Mexico	926	1,037	-10.7%	608	653	308	373	10	11	0	NM
Utah	852	866	-1.7%	786	796	25	25	7	7	34	39
Wyoming	76	66	14.4%	33	NM	0	NM	0	0	42	29
Pacific Contiguous	14,368	15,007	-4.3%	5,640	5,971	7,612	7,846	168	172	948	1,017
California	11,078	11,364	-2.5%	3,760	3,850	6,220	6,345	163	163	935	1,006
Oregon	1,773	2,019	-12.2%	776	1,129	987	876	4	NM	5	7
Washington	1,517	1,624	-6.6%	1,104	992	405	624	0	NM	8	5
Pacific Noncontiguous	240	217	10.3%	234	211	0	0	0	0	5	NM
Alaska	240	217	10.3%	234	211	0	0	0	0	5	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	137,781	155,117	-11.2%	67,701	72,932	61,767	73,267	696	781	7,617	8,137

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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 August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	33,578	38,369	-12.5%	251	238	31,977	36,650	553	660	798	821
Connecticut	10,186	12,183	-16.4%	30	2	9,619	11,610	208	259	329	311
Maine	1,280	2,768	-53.7%	0	0	975	2,384	20	NM	286	367
Massachusetts	16,112	15,808	1.9%	NM	202	15,470	15,149	285	333	162	123
New Hampshire	2,444	3,125	-21.8%	25	33	2,391	3,057	7	NM	21	NM
Rhode Island	3,555	4,486	-20.7%	0	0	3,522	4,450	33	36	0	0
Vermont	1	NM	NM	1	0	0	0	0	NM	0	0
Middle Atlantic	91,305	115,367	-20.9%	6,979	8,718	82,416	104,586	674	781	1,235	1,281
New Jersey	19,074	30,231	-36.9%	77	NM	18,627	29,797	127	143	243	232
New York	33,866	39,849	-15.0%	6,898	8,652	26,312	30,423	458	542	198	232
Pennsylvania	38,365	45,286	-15.3%	4	NM	37,477	44,367	90	96	794	817
East North Central	63,039	79,694	-20.9%	26,921	35,676	33,246	41,642	979	1,000	1,893	1,376
Illinois	8,240	12,450	-33.8%	518	1,302	7,033	10,529	257	244	431	374
Indiana	11,578	13,590	-14.8%	9,126	10,780	1,487	2,330	130	131	834	350
Michigan	16,739	21,510	-22.2%	5,142	7,740	10,904	12,946	375	442	318	381
Ohio	17,644	19,833	-11.0%	4,309	4,776	13,056	14,920	177	96	103	41
Wisconsin	8,839	12,311	-28.2%	7,825	11,077	766	917	40	87	207	229
West North Central	13,662	17,676	-22.7%	11,689	14,517	1,432	2,550	182	238	359	371
Iowa	2,306	2,498	-7.7%	2,039	2,287	NM	NM	53	69	214	141
Kansas	1,752	1,498	17.0%	1,725	1,437	0	0	0	0	27	60
Minnesota	5,120	7,250	-29.4%	4,332	5,850	637	1,186	68	93	83	122
Missouri	2,498	4,493	-44.4%	1,613	3,037	795	1,364	60	75	30	NM
Nebraska	874	535	63.4%	873	522	0	0	1	NM	0	12
North Dakota	383	636	-39.7%	379	617	0	0	0	0	4	NM
South Dakota	727	766	-5.1%	727	766	0	0	0	0	0	0
South Atlantic	220,238	223,823	-1.6%	180,895	181,127	36,023	39,664	361	444	2,959	2,588
Delaware	3,799	5,432	-30.1%	7	NM	3,162	4,737	0	0	630	657
District of Columbia	16	38	-57.9%	0	0	0	0	16	38	0	0
Florida	107,177	109,211	-1.9%	101,031	99,278	5,215	8,989	17	36	913	908
Georgia	35,689	37,621	-5.1%	26,445	28,624	8,757	8,650	0	0	487	348
Maryland	4,359	4,296	1.5%	0	0	3,986	3,886	315	351	58	59
North Carolina	25,869	27,700	-6.6%	22,181	24,096	3,605	3,468	7	7	76	129
South Carolina	10,713	10,543	1.6%	9,134	8,578	1,497	1,900	0	NM	82	57
Virginia	31,780	28,226	12.6%	22,001	20,405	9,390	7,472	5	NM	384	344
West Virginia	836	756	10.5%	95	109	411	561	0	0	330	86
East South Central	77,021	87,628	-12.1%	50,648	56,103	24,815	30,066	82	105	1,476	1,353
Alabama	34,772	38,991	-10.8%	12,187	11,393	21,909	26,892	0	0	676	705
Kentucky	4,226	5,828	-27.5%	3,864	5,255	195	417	0	0	168	155
Mississippi	31,236	35,029	-10.8%	28,261	31,992	2,703	2,756	3	NM	269	274
Tennessee	6,786	7,780	-12.8%	6,336	7,463	8	0	79	99	364	218
West South Central	210,335	245,759	-14.4%	58,641	78,468	108,825	121,603	602	622	42,267	45,067
Arkansas	10,799	13,336	-19.0%	2,810	5,276	7,802	7,862	0	NM	187	197
Louisiana	38,953	46,412	-16.1%	20,340	25,020	2,788	3,859	97	115	15,728	17,418
Oklahoma	21,023	25,589	-17.8%	12,777	17,374	8,095	8,088	0	NM	151	116
Texas	139,561	160,422	-13.0%	22,715	30,798	90,141	101,794	505	494	26,201	27,336
Mountain	59,783	70,565	-15.3%	45,667	52,802	12,886	16,570	282	245	948	948
Arizona	19,553	24,709	-20.9%	12,815	14,517	6,642	10,110	96	82	0	0
Colorado	8,643	9,365	-7.7%	7,256	7,948	1,374	1,404	0	0	13	NM
Idaho	2,226	2,372	-6.2%	1,294	1,446	851	870	26	0	54	56
Montana	355	518	-31.6%	284	461	68	57	0	0	2	0
Nevada	17,918	19,961	-10.2%	16,287	18,340	1,401	1,365	39	41	191	215
New Mexico	6,365	6,922	-8.0%	3,881	4,200	2,410	2,639	74	73	1	NM
Utah	4,186	6,202	-32.5%	3,706	5,745	139	124	48	49	293	284
Wyoming	538	516	4.3%	144	145	1	NM	0	0	393	371
Pacific Contiguous	69,534	80,589	-13.7%	27,108	29,789	34,035	42,200	1,271	1,200	7,121	7,401
California	55,735	63,706	-12.5%	19,292	21,032	28,212	34,238	1,227	1,140	7,004	7,295
Oregon	7,196	9,399	-23.4%	3,405	4,342	3,704	4,966	34	43	53	47
Washington	6,604	7,485	-11.8%	4,411	4,415	2,119	2,995	NM	NM	63	58
Pacific Noncontiguous	1,069	1,620	-34.0%	1,022	1,570	0	0	2	2	44	49
Alaska	1,069	1,620	-34.0%	1,022	1,570	0	0	2	2	44	49
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	839,564	961,089	-12.6%	409,821	459,008	365,655	435,531	4,989	5,296	59,099	61,253

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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, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 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	73	66	9.9%	0	0	0	0	0	0	73	66
New Jersey	19	NM	NM	0	0	0	0	0	0	19	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	54	45	19.4%	0	0	0	0	0	0	54	45
East North Central	573	436	31.3%	NM	15	234	169	0	0	335	252
Illinois	18	NM	NM	0	0	0	0	0	0	18	NM
Indiana	307	205	49.5%	NM	3	0	0	0	0	304	202
Michigan	145	113	29.1%	2	12	144	100	0	0	0	0
Ohio	102	91	12.4%	0	0	90	69	0	0	12	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	NM	NM	0	0	0	0	0	0	4	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	NM	NM	0	0	0	0	0	0	4	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	38	35	8.1%	0	0	0	0	0	0	38	35
Delaware	33	32	4.6%	0	0	0	0	0	0	33	32
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	1	-40.8%	0	0	0	0	0	0	0	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	4	2	81.0%	0	0	0	0	0	0	4	2
East South Central	2	NM	NM	0	0	0	0	0	0	2	NM
Alabama	0	NM	NM	0	0	0	0	0	0	0	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	1	29.8%	0	0	0	0	0	0	2	1
West South Central	457	398	14.8%	0	0	118	129	0	0	339	269
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	232	156	48.9%	0	0	0	0	0	0	232	156
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	225	242	-7.2%	0	0	118	129	0	0	107	113
Mountain	25	9	178.9%	0	0	2	0	0	0	23	9
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	0	382.0%	0	0	2	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	2	NM	NM	0	0	0	0	0	0	2	NM
Wyoming	21	8	166.0%	0	0	0	0	0	0	21	8
Pacific Contiguous	160	146	10.0%	0	0	35	32	0	0	125	113
California	125	113	10.1%	0	0	0	0	0	0	125	113
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	35	32	9.8%	0	0	35	32	0	0	0	0
Pacific Noncontiguous	4	NM	NM	0	0	0	0	0	0	4	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	4	NM	NM	0	0	0	0	0	0	4	NM
U.S. Total	1,335	1,102	21.2%	NM	15	389	331	0	0	942	756

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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 August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	503	525	-4.1%	0	0	0	NM	0	0	503	525
New Jersey	148	170	-12.7%	0	0	0	0	0	0	148	170
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	355	355	0.1%	0	0	0	NM	0	0	355	355
East North Central	3,971	3,474	14.3%	115	89	1,584	1,542	0	0	2,272	1,843
Illinois	121	214	-43.4%	0	0	0	4	0	0	121	210
Indiana	2,043	1,491	37.0%	NM	NM	0	0	0	0	2,029	1,476
Michigan	1,120	1,080	3.8%	101	73	1,020	1,006	0	0	0	0
Ohio	685	688	-0.4%	0	0	564	531	0	0	122	157
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	25	35	-27.2%	0	0	0	0	0	0	25	35
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	25	35	-27.2%	0	0	0	0	0	0	25	35
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	273	212	28.5%	0	0	0	0	0	0	273	212
Delaware	247	193	27.6%	0	0	0	0	0	0	247	193
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4	3	15.3%	0	0	0	0	0	0	4	3
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	22	16	42.3%	0	0	0	0	0	0	22	16
East South Central	19	28	-30.0%	0	0	0	0	0	0	19	28
Alabama	9	18	-48.5%	0	0	0	0	0	0	9	18
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	10	10	4.4%	0	0	0	0	0	0	10	10
West South Central	3,224	3,229	-0.1%	0	0	945	856	0	0	2,279	2,373
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,430	1,482	-3.5%	0	0	0	0	0	0	1,430	1,482
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,795	1,747	2.7%	0	0	945	856	0	0	849	891
Mountain	247	239	3.2%	0	0	11	7	0	0	236	232
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	11	6	76.8%	0	0	11	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	10	NM	NM	0	0	0	0	0	0	10	NM
Wyoming	225	227	-0.7%	0	0	0	0	0	0	225	227
Pacific Contiguous	1,143	1,280	-10.7%	0	0	228	270	0	0	915	1,009
California	915	1,009	-9.3%	0	0	0	0	0	0	915	1,009
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	228	270	-15.6%	0	0	228	270	0	0	0	0
Pacific Noncontiguous	34	29	15.0%	0	0	0	0	0	0	34	29
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	34	29	15.0%	0	0	0	0	0	0	34	29
U.S. Total	9,440	9,050	4.3%	115	89	2,768	2,675	0	0	6,557	6,286

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	2,957	2,789	6.0%	0	0	2,957	2,789	0	0	0	0
Connecticut	1,532	1,466	4.5%	0	0	1,532	1,466	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	495	397	24.5%	0	0	495	397	0	0	0	0
New Hampshire	930	926	0.4%	0	0	930	926	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	14,081	13,770	2.3%	0	0	14,081	13,770	0	0	0	0
New Jersey	3,045	2,713	12.2%	0	0	3,045	2,713	0	0	0	0
New York	3,768	3,761	0.2%	0	0	3,768	3,761	0	0	0	0
Pennsylvania	7,268	7,296	-0.4%	0	0	7,268	7,296	0	0	0	0
East North Central	14,018	13,902	0.8%	2,434	2,267	11,584	11,635	0	0	0	0
Illinois	8,517	8,603	-1.0%	0	0	8,517	8,603	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,025	2,851	6.1%	2,434	2,267	591	584	0	0	0	0
Ohio	1,595	1,568	1.7%	0	0	1,595	1,568	0	0	0	0
Wisconsin	880	880	0.1%	0	0	880	880	0	0	0	0
West North Central	4,087	4,392	-6.9%	3,647	3,965	440	427	0	0	0	0
Iowa	440	427	3.0%	0	0	440	427	0	0	0	0
Kansas	894	885	1.0%	894	885	0	0	0	0	0	0
Minnesota	1,275	1,268	0.6%	1,275	1,268	0	0	0	0	0	0
Missouri	897	893	0.5%	897	893	0	0	0	0	0	0
Nebraska	581	919	-36.7%	581	919	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,266	17,372	5.1%	16,972	16,103	1,294	1,269	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	2,701	1,971	37.0%	2,701	1,971	0	0	0	0	0	0
Georgia	3,036	3,027	0.3%	3,036	3,027	0	0	0	0	0	0
Maryland	1,294	1,269	1.9%	0	0	1,294	1,269	0	0	0	0
North Carolina	3,811	3,797	0.4%	3,811	3,797	0	0	0	0	0	0
South Carolina	4,809	4,739	1.5%	4,809	4,739	0	0	0	0	0	0
Virginia	2,616	2,569	1.8%	2,616	2,569	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,648	7,208	6.1%	7,648	7,208	0	0	0	0	0	0
Alabama	3,674	3,611	1.7%	3,674	3,611	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	797	1,046	-23.8%	797	1,046	0	0	0	0	0	0
Tennessee	3,177	2,551	24.6%	3,177	2,551	0	0	0	0	0	0
West South Central	6,173	6,647	-7.1%	2,812	2,938	3,361	3,709	0	0	0	0
Arkansas	1,364	1,360	0.3%	1,364	1,360	0	0	0	0	0	0
Louisiana	1,448	1,579	-8.3%	1,448	1,579	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,361	3,709	-9.4%	0	0	3,361	3,709	0	0	0	0
Mountain	2,935	2,939	-0.1%	2,935	2,939	0	0	0	0	0	0
Arizona	2,935	2,939	-0.1%	2,935	2,939	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	2,220	2,508	-11.5%	2,220	2,508	0	0	0	0	0	0
California	1,683	1,686	-0.2%	1,683	1,686	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	537	823	-34.7%	537	823	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	72,384	71,526	1.2%	38,667	37,927	33,717	33,599	0	0	0	0

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	20,826	21,353	-2.5%	0	0	20,826	21,353	0	0	0	0
Connecticut	11,408	10,485	8.8%	0	0	11,408	10,485	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	3,086	3,763	-18.0%	0	0	3,086	3,763	0	0	0	0
New Hampshire	6,332	7,105	-10.9%	0	0	6,332	7,105	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	105,212	101,921	3.2%	0	0	105,212	101,921	0	0	0	0
New Jersey	22,809	19,581	16.5%	0	0	22,809	19,581	0	0	0	0
New York	27,125	27,086	0.1%	0	0	27,125	27,086	0	0	0	0
Pennsylvania	55,278	55,254	0.0%	0	0	55,278	55,254	0	0	0	0
East North Central	104,151	104,996	-0.8%	18,533	17,489	85,618	87,507	0	0	0	0
Illinois	64,054	65,382	-2.0%	0	0	64,054	65,382	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	22,253	22,184	0.3%	18,533	17,489	3,719	4,696	0	0	0	0
Ohio	11,320	10,795	4.9%	0	0	11,320	10,795	0	0	0	0
Wisconsin	6,525	6,635	-1.7%	0	0	6,525	6,635	0	0	0	0
West North Central	31,482	33,079	-4.8%	27,972	29,677	3,510	3,402	0	0	0	0
Iowa	3,510	3,402	3.2%	0	0	3,510	3,402	0	0	0	0
Kansas	7,075	7,069	0.1%	7,075	7,069	0	0	0	0	0	0
Minnesota	9,355	9,367	-0.1%	9,355	9,367	0	0	0	0	0	0
Missouri	6,967	5,868	18.7%	6,967	5,868	0	0	0	0	0	0
Nebraska	4,575	7,373	-37.9%	4,575	7,373	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	136,345	138,812	-1.8%	126,460	129,172	9,886	9,639	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	19,534	19,991	-2.3%	19,534	19,991	0	0	0	0	0	0
Georgia	22,621	22,432	0.8%	22,621	22,432	0	0	0	0	0	0
Maryland	9,886	9,639	2.6%	0	0	9,886	9,639	0	0	0	0
North Carolina	28,016	28,540	-1.8%	28,016	28,540	0	0	0	0	0	0
South Carolina	35,692	37,808	-5.6%	35,692	37,808	0	0	0	0	0	0
Virginia	20,597	20,402	1.0%	20,597	20,402	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	53,851	51,269	5.0%	53,851	51,269	0	0	0	0	0	0
Alabama	28,305	27,290	3.7%	28,305	27,290	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	5,733	5,701	0.5%	5,733	5,701	0	0	0	0	0	0
Tennessee	19,813	18,278	8.4%	19,813	18,278	0	0	0	0	0	0
West South Central	41,344	49,976	-17.3%	16,397	21,608	24,947	28,368	0	0	0	0
Arkansas	7,261	10,508	-30.9%	7,261	10,508	0	0	0	0	0	0
Louisiana	9,136	11,100	-17.7%	9,136	11,100	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24,947	28,368	-12.1%	0	0	24,947	28,368	0	0	0	0
Mountain	21,707	22,031	-1.5%	21,707	22,031	0	0	0	0	0	0
Arizona	21,707	22,031	-1.5%	21,707	22,031	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	16,110	18,869	-14.6%	16,110	18,869	0	0	0	0	0	0
California	11,284	12,357	-8.7%	11,284	12,357	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,826	6,512	-25.9%	4,826	6,512	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	531,029	542,304	-2.1%	281,030	290,114	249,998	252,190	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	585	408	43.5%	78	54	474	336	0	NM	33	NM
Connecticut	23	NM	NM	1	NM	22	NM	0	0	0	0
Maine	294	210	39.9%	0	0	261	192	0	0	33	NM
Massachusetts	68	45	50.9%	16	NM	52	NM	0	NM	0	NM
New Hampshire	104	54	92.5%	27	NM	76	43	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	97	78	24.5%	33	NM	64	51	0	0	0	0
Middle Atlantic	2,683	2,271	18.1%	2,154	1,911	524	355	1	NM	4	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,471	2,158	14.5%	2,149	1,907	318	246	1	NM	4	NM
Pennsylvania	210	112	87.9%	5	NM	205	108	0	0	0	0
East North Central	348	372	-6.4%	294	325	38	NM	0	NM	15	NM
Illinois	NM	NM	NM	NM	NM	6	NM	0	NM	0	0
Indiana	33	43	-23.1%	33	43	0	0	0	0	0	0
Michigan	101	104	-2.8%	93	96	NM	NM	0	0	NM	NM
Ohio	39	49	-20.8%	20	35	19	NM	0	0	0	0
Wisconsin	163	167	-2.0%	143	148	NM	NM	0	0	NM	NM
West North Central	840	1,009	-16.8%	813	985	NM	NM	0	0	11	NM
Iowa	67	68	-1.3%	66	68	1	NM	0	0	0	0
Kansas	3	NM	NM	0	0	3	NM	0	0	0	0
Minnesota	61	63	-2.1%	NM	NM	NM	NM	0	0	11	NM
Missouri	129	90	42.7%	129	90	0	0	0	0	0	0
Nebraska	117	120	-2.5%	117	120	0	0	0	0	0	0
North Dakota	141	191	-26.2%	141	191	0	0	0	0	0	0
South Dakota	322	476	-32.4%	322	476	0	0	0	0	0	0
South Atlantic	1,141	963	18.5%	949	843	140	80	1	NM	51	38
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	21	NM	NM	21	NM	0	0	0	0	0	0
Georgia	229	225	1.7%	228	223	0	NM	0	0	1	NM
Maryland	100	46	116.4%	0	0	100	46	0	0	0	0
North Carolina	359	324	10.8%	354	319	NM	NM	1	NM	NM	NM
South Carolina	190	141	34.3%	186	137	NM	NM	0	NM	0	0
Virginia	103	111	-7.2%	97	105	5	NM	0	0	0	NM
West Virginia	138	99	40.0%	62	NM	27	20	0	0	49	36
East South Central	1,970	1,476	33.5%	1,969	1,475	NM	NM	0	0	0	0
Alabama	743	439	69.1%	743	439	0	0	0	0	0	0
Kentucky	405	366	10.5%	404	366	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	822	670	22.6%	822	670	0	0	0	0	0	0
West South Central	661	545	21.4%	561	444	99	100	NM	0	0	0
Arkansas	282	232	21.5%	276	228	NM	NM	0	0	0	0
Louisiana	91	94	-2.7%	0	0	91	94	0	0	0	0
Oklahoma	221	148	49.4%	221	148	0	0	0	0	0	0
Texas	67	71	-5.2%	64	69	2	NM	NM	0	0	0
Mountain	2,255	2,434	-7.4%	2,171	2,331	82	103	2	NM	0	0
Arizona	626	649	-3.5%	626	649	0	0	0	0	0	0
Colorado	103	123	-16.1%	83	109	NM	NM	2	NM	0	0
Idaho	589	778	-24.3%	540	701	NM	77	0	0	0	0
Montana	670	572	17.2%	660	562	NM	NM	0	0	0	0
Nevada	149	129	15.6%	145	128	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	51	NM	NM	51	NM	0	NM	0	0	0	0
Wyoming	59	121	-51.1%	57	120	2	NM	0	0	0	0
Pacific Contiguous	10,806	9,751	10.8%	10,543	9,561	263	188	0	NM	0	0
California	3,924	2,866	36.9%	3,699	2,711	225	153	0	NM	0	0
Oregon	1,746	1,660	5.2%	1,728	1,641	NM	NM	0	0	0	0
Washington	5,137	5,225	-1.7%	5,117	5,209	NM	NM	0	0	0	0
Pacific Noncontiguous	119	131	-9.6%	104	124	1	3	NM	0	NM	NM
Alaska	113	123	-7.9%	104	123	0	0	NM	0	0	0
Hawaii	NM	NM	NM	1	NM	1	3	0	0	NM	NM
U.S. Total	21,406	19,359	10.6%	19,636	18,054	1,639	1,213	NM	NM	118	87

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	5,165	4,647	11.1%	715	678	4,153	3,715	3	NM	294	250
Connecticut	231	221	4.5%	18	NM	213	203	0	0	0	0
Maine	2,470	2,176	13.5%	0	0	2,181	1,930	0	0	289	246
Massachusetts	630	589	6.9%	159	153	463	429	3	NM	5	NM
New Hampshire	964	867	11.1%	229	220	735	647	0	0	0	0
Rhode Island	2	NM	NM	0	0	2	NM	0	0	0	0
Vermont	869	792	9.7%	309	288	560	504	0	0	0	0
Middle Atlantic	21,496	20,175	6.5%	16,655	15,757	4,784	4,373	5	NM	52	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	19,453	18,323	6.2%	16,578	15,713	2,818	2,565	5	NM	52	NM
Pennsylvania	2,023	1,836	10.2%	77	44	1,946	1,792	0	0	0	0
East North Central	3,720	3,494	6.4%	3,222	3,022	364	336	1	NM	132	135
Illinois	95	93	2.1%	NM	NM	57	55	1	NM	0	0
Indiana	283	286	-1.0%	283	286	0	0	0	0	0	0
Michigan	1,164	1,090	6.9%	1,075	1,002	NM	67	0	0	NM	NM
Ohio	345	355	-2.9%	186	214	160	141	0	0	0	0
Wisconsin	1,832	1,670	9.7%	1,640	1,483	NM	73	0	0	113	114
West North Central	9,595	7,745	23.9%	9,319	7,504	170	153	0	0	105	88
Iowa	687	656	4.7%	682	651	5	NM	0	0	0	0
Kansas	21	NM	NM	0	0	21	NM	0	0	0	0
Minnesota	606	609	-0.5%	357	387	NM	134	0	0	105	88
Missouri	1,185	1,050	12.9%	1,185	1,050	0	0	0	0	0	0
Nebraska	1,286	1,196	7.5%	1,286	1,196	0	0	0	0	0	0
North Dakota	1,723	1,369	25.8%	1,723	1,369	0	0	0	0	0	0
South Dakota	4,087	2,851	43.4%	4,087	2,851	0	0	0	0	0	0
South Atlantic	11,800	11,360	3.9%	9,339	9,457	2,031	1,476	9	NM	421	415
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	181	161	12.5%	181	161	0	0	0	0	0	0
Georgia	2,231	2,338	-4.6%	2,215	2,316	6	NM	0	0	10	NM
Maryland	1,637	1,111	47.4%	0	0	1,637	1,111	0	0	0	0
North Carolina	3,497	3,634	-3.8%	3,452	3,588	31	NM	8	NM	NM	NM
South Carolina	2,090	1,918	8.9%	2,046	1,869	43	48	1	NM	0	0
Virginia	988	1,172	-15.7%	935	1,113	53	50	0	0	0	NM
West Virginia	1,176	1,026	14.7%	511	410	261	227	0	0	405	388
East South Central	17,575	14,438	21.7%	17,569	14,432	NM	NM	0	0	0	0
Alabama	7,219	6,343	13.8%	7,219	6,343	0	0	0	0	0	0
Kentucky	3,190	2,540	25.6%	3,183	2,534	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7,167	5,555	29.0%	7,167	5,555	0	0	0	0	0	0
West South Central	6,211	6,256	-0.7%	5,408	5,396	801	860	NM	0	0	0
Arkansas	2,671	2,678	-0.2%	2,640	2,642	32	NM	0	0	0	0
Louisiana	748	799	-6.4%	0	0	748	799	0	0	0	0
Oklahoma	2,001	1,868	7.2%	2,001	1,868	0	0	0	0	0	0
Texas	790	911	-13.3%	767	886	21	NM	NM	0	0	0
Mountain	24,179	23,178	4.3%	23,216	22,261	953	910	10	NM	0	0
Arizona	5,049	5,091	-0.8%	5,049	5,091	0	0	0	0	0	0
Colorado	1,497	1,398	7.1%	1,307	1,249	180	142	10	NM	0	0
Idaho	7,164	7,089	1.1%	6,544	6,451	620	638	0	0	0	0
Montana	7,793	6,812	14.4%	7,681	6,710	NM	102	0	0	0	0
Nevada	1,150	1,263	-8.9%	1,123	1,249	27	NM	0	0	0	0
New Mexico	NM	108	NM	NM	108	0	0	0	0	0	0
Utah	649	579	12.2%	642	572	8	NM	0	0	0	0
Wyoming	743	840	-11.5%	737	832	6	NM	0	0	0	0
Pacific Contiguous	121,031	98,595	22.8%	118,670	97,099	2,349	1,479	12	NM	0	0
California	33,929	20,937	62.1%	32,034	19,851	1,883	1,069	12	NM	0	0
Oregon	25,916	23,520	10.2%	25,700	23,324	216	195	0	0	0	0
Washington	61,186	54,139	13.0%	60,936	53,924	250	215	0	0	0	0
Pacific Noncontiguous	1,404	1,059	32.6%	1,303	1,002	9	15	NM	0	NM	NM
Alaska	1,351	987	36.8%	1,298	987	0	0	NM	0	0	0
Hawaii	NM	72	NM	5	NM	9	15	0	0	NM	NM
U.S. Total	222,175	190,947	16.4%	205,416	176,609	15,622	13,324	NM	NM	1,043	969

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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, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	933	902	3.5%	76	72	737	717	18	14	102	99
Connecticut	74	80	-8.2%	0	NM	73	80	0	0	0	0
Maine	372	360	3.4%	0	0	262	253	8	8	102	98
Massachusetts	221	191	15.9%	NM	NM	212	183	4	NM	0	NM
New Hampshire	168	184	-8.7%	29	30	134	151	5	NM	0	0
Rhode Island	27	23	18.1%	0	0	26	22	0	NM	0	0
Vermont	71	64	11.4%	42	36	29	28	0	NM	0	0
Middle Atlantic	1,090	987	10.4%	10	11	939	862	67	54	74	59
New Jersey	209	192	9.1%	10	11	166	149	31	31	NM	NM
New York	477	432	10.2%	0	0	437	400	22	19	18	13
Pennsylvania	404	363	11.3%	0	0	336	313	14	5	55	45
East North Central	1,626	1,328	22.4%	218	194	1,250	986	21	20	138	127
Illinois	552	389	42.0%	3	NM	550	386	NM	NM	0	0
Indiana	293	215	36.2%	39	33	247	175	2	NM	NM	6
Michigan	447	433	3.2%	95	89	280	271	14	15	58	58
Ohio	131	117	11.7%	NM	NM	102	89	1	NM	25	25
Wisconsin	203	174	16.5%	79	67	71	65	4	NM	50	39
West North Central	3,490	3,337	4.6%	1,056	1,049	2,361	2,216	14	17	60	55
Iowa	928	813	14.2%	585	507	335	298	NM	NM	5	5
Kansas	954	890	7.2%	109	52	846	838	0	0	0	0
Minnesota	706	631	11.9%	139	143	509	433	NM	7	55	49
Missouri	112	73	53.7%	NM	4	101	61	6	7	0	NM
Nebraska	208	218	-4.3%	16	20	191	196	1	NM	0	0
North Dakota	475	520	-8.7%	172	263	303	257	0	0	0	NM
South Dakota	107	192	-44.5%	31	60	76	133	0	0	0	0
South Atlantic	2,746	2,313	18.7%	288	247	1,470	1,134	29	45	959	887
Delaware	12	13	-1.2%	NM	NM	10	10	0	NM	NM	NM
District of Columbia	2	0	--	0	0	2	0	0	0	0	0
Florida	456	414	10.2%	64	24	214	218	NM	NM	174	168
Georgia	660	490	34.8%	25	7	286	143	NM	NM	348	339
Maryland	97	96	0.7%	1	NM	83	87	NM	NM	12	6
North Carolina	837	635	31.8%	48	34	653	473	13	18	123	109
South Carolina	244	215	13.9%	31	39	53	36	0	0	160	140
Virginia	358	393	-8.8%	118	142	89	109	10	20	141	123
West Virginia	79	58	36.7%	0	0	79	58	0	0	0	0
East South Central	596	555	7.3%	13	10	78	44	NM	NM	505	502
Alabama	311	287	8.5%	4	0	41	25	0	0	266	261
Kentucky	38	43	-11.6%	9	10	1	NM	0	0	28	32
Mississippi	141	128	9.5%	0	0	12	NM	0	0	128	127
Tennessee	107	98	9.4%	0	0	24	17	NM	NM	83	81
West South Central	5,569	5,582	-0.2%	87	121	5,022	5,009	5	NM	455	446
Arkansas	126	121	4.1%	NM	NM	9	10	1	NM	116	110
Louisiana	242	235	2.7%	0	0	8	8	0	0	234	227
Oklahoma	1,145	1,262	-9.3%	71	93	1,047	1,143	0	0	27	26
Texas	4,057	3,964	2.3%	NM	27	3,959	3,848	4	NM	78	83
Mountain	3,186	2,678	19.0%	229	231	2,909	2,403	14	15	33	30
Arizona	528	382	38.0%	65	51	461	329	2	NM	0	0
Colorado	691	637	8.5%	NM	7	671	627	NM	NM	0	NM
Idaho	237	199	19.1%	NM	NM	205	170	1	NM	31	27
Montana	91	113	-19.5%	NM	15	81	97	0	0	2	NM
Nevada	769	591	30.3%	4	NM	757	579	8	8	0	NM
New Mexico	367	278	32.1%	24	26	343	252	NM	NM	0	0
Utah	304	259	17.5%	23	22	281	236	0	NM	0	0
Wyoming	197	218	-9.7%	86	105	111	112	0	0	0	0
Pacific Contiguous	6,135	6,686	-8.2%	617	705	5,206	5,678	80	87	231	216
California	4,916	5,192	-5.3%	243	238	4,540	4,821	77	84	55	48
Oregon	630	739	-14.8%	118	138	465	556	NM	NM	45	44
Washington	589	755	-22.0%	256	329	201	301	NM	NM	131	123
Pacific Noncontiguous	115	143	-19.7%	16	17	75	96	24	24	NM	6
Alaska	12	12	-4.2%	NM	NM	NM	NM	4	4	NM	NM
Hawaii	103	130	-21.2%	10	11	72	94	20	20	0	6
U.S. Total	25,485	24,510	4.0%	2,610	2,656	20,046	19,146	272	283	2,557	2,425

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	7,872	7,179	9.7%	602	598	6,309	5,717	134	110	827	753
Connecticut	560	614	-8.9%	3	NM	557	611	0	0	0	0
Maine	3,534	2,977	18.7%	0	0	2,646	2,167	62	59	827	751
Massachusetts	1,581	1,432	10.4%	NM	51	1,492	1,354	38	25	1	NM
New Hampshire	1,352	1,415	-4.4%	198	200	1,127	1,195	28	20	0	0
Rhode Island	248	164	51.6%	0	0	243	158	5	NM	0	0
Vermont	597	577	3.4%	352	343	243	233	2	NM	0	0
Middle Atlantic	9,779	9,347	4.6%	73	77	8,636	8,311	498	453	572	506
New Jersey	1,471	1,373	7.2%	73	77	1,158	1,066	232	226	NM	NM
New York	4,416	4,156	6.3%	0	0	4,121	3,872	157	145	138	140
Pennsylvania	3,891	3,818	1.9%	0	0	3,358	3,373	108	82	426	364
East North Central	19,559	18,611	5.1%	2,254	2,296	16,093	15,086	156	146	1,055	1,082
Illinois	7,924	7,142	11.0%	24	25	7,897	7,113	NM	NM	0	0
Indiana	3,424	3,668	-6.6%	268	236	3,096	3,372	14	13	46	46
Michigan	4,634	4,520	2.5%	1,056	1,185	3,067	2,795	94	95	417	445
Ohio	1,608	1,369	17.4%	NM	20	1,378	1,130	10	10	199	210
Wisconsin	1,968	1,911	3.0%	885	829	656	676	35	25	392	381
West North Central	46,371	39,335	17.9%	14,653	13,481	31,140	25,351	109	110	469	392
Iowa	13,322	12,422	7.2%	8,665	7,774	4,607	4,579	19	26	31	43
Kansas	11,934	9,187	29.9%	1,167	579	10,765	8,601	0	0	1	7
Minnesota	8,637	7,648	12.9%	1,805	1,908	6,372	5,372	NM	38	427	330
Missouri	1,262	842	50.0%	32	29	1,185	775	43	36	2	NM
Nebraska	3,197	2,363	35.3%	186	179	2,999	2,173	12	11	0	0
North Dakota	6,247	4,909	27.3%	2,247	2,395	3,993	2,505	0	0	7	10
South Dakota	1,772	1,964	-9.8%	552	618	1,220	1,347	0	0	0	0
South Atlantic	20,921	17,381	20.4%	2,211	1,592	11,387	8,516	263	345	7,061	6,929
Delaware	92	93	-0.4%	NM	5	74	74	NM	NM	NM	9
District of Columbia	31	0	--	0	0	31	0	0	0	0	0
Florida	3,830	3,230	18.6%	487	186	1,899	1,661	36	34	1,407	1,349
Georgia	4,661	3,580	30.2%	191	51	1,856	899	NM	7	2,610	2,623
Maryland	872	862	1.2%	NM	7	772	764	NM	22	80	69
North Carolina	5,780	4,316	33.9%	318	178	4,650	3,217	108	133	704	788
South Carolina	1,847	1,610	14.7%	288	281	328	281	0	0	1,231	1,049
Virginia	2,752	2,810	-2.1%	915	884	720	739	98	144	1,018	1,043
West Virginia	1,057	880	20.1%	0	0	1,057	880	0	0	0	0
East South Central	4,375	4,274	2.4%	76	64	520	327	NM	NM	3,775	3,881
Alabama	2,264	2,190	3.4%	16	0	301	178	0	0	1,947	2,012
Kentucky	280	315	-11.1%	60	64	5	5	0	0	215	246
Mississippi	1,049	1,019	2.9%	0	0	40	9	0	0	1,008	1,010
Tennessee	782	750	4.2%	0	0	174	135	NM	NM	604	613
West South Central	65,754	55,757	17.9%	1,185	1,111	61,143	51,198	52	58	3,373	3,391
Arkansas	994	939	5.8%	NM	NM	83	91	4	3	904	844
Louisiana	1,773	1,790	-0.9%	0	0	60	63	0	0	1,713	1,727
Oklahoma	15,735	13,096	20.1%	990	905	14,578	11,989	0	0	167	202
Texas	47,252	39,932	18.3%	194	205	46,422	39,055	48	55	589	617
Mountain	28,462	24,556	15.9%	2,292	2,291	25,814	21,889	105	105	251	272
Arizona	3,955	3,169	24.8%	437	374	3,504	2,780	15	15	0	0
Colorado	6,950	6,481	7.2%	204	68	6,725	6,393	NM	18	2	NM
Idaho	2,221	2,111	5.2%	NM	8	1,970	1,844	8	5	235	253
Montana	1,290	1,381	-6.6%	135	148	1,141	1,219	0	0	14	14
Nevada	5,593	4,480	24.9%	30	25	5,508	4,397	55	56	0	NM
New Mexico	3,503	2,901	20.8%	173	180	3,327	2,718	NM	NM	0	0
Utah	2,451	1,300	88.6%	181	168	2,263	1,123	7	9	0	0
Wyoming	2,499	2,735	-8.6%	1,123	1,319	1,376	1,415	0	0	0	0
Pacific Contiguous	49,966	48,569	2.9%	5,136	5,804	42,497	40,437	641	690	1,692	1,639
California	38,756	35,781	8.3%	1,580	1,567	36,151	33,182	610	666	415	365
Oregon	5,355	5,996	-10.7%	823	1,032	4,167	4,612	19	12	346	340
Washington	5,855	6,792	-13.8%	2,734	3,204	2,178	2,642	NM	12	932	934
Pacific Noncontiguous	1,017	985	3.2%	136	131	725	626	153	166	NM	63
Alaska	132	142	-6.7%	NM	70	NM	36	26	32	NM	4
Hawaii	885	844	4.9%	68	61	691	591	127	134	0	59
U.S. Total	254,077	225,994	12.4%	28,619	27,447	204,264	177,457	2,115	2,184	19,079	18,907

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	-47	-53	-10.5%	0	0	-47	-53	0	0	0	0
Connecticut	0	0	126.1%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-48	-53	-10.0%	0	0	-48	-53	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	-118	-148	-20.4%	-58	-86	-60	-62	0	0	0	0
New Jersey	-16	-26	-40.1%	-16	-26	0	0	0	0	0	0
New York	-43	-60	-29.6%	-43	-60	0	0	0	0	0	0
Pennsylvania	-60	-62	-3.1%	0	0	-60	-62	0	0	0	0
East North Central	-93	-112	-17.7%	-93	-112	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	-93	-112	-17.7%	-93	-112	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	20	1	NM	20	1	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	20	1	NM	20	1	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	-401	-428	-6.3%	-401	-428	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	-129	-139	-7.5%	-129	-139	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	-102	-118	-13.3%	-102	-118	0	0	0	0	0	0
Virginia	-170	-171	-0.4%	-170	-171	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-85	-82	3.0%	-85	-82	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	-85	-82	3.0%	-85	-82	0	0	0	0	0	0
West South Central	-9	-8	3.9%	-9	-8	0	0	0	0	0	0
Arkansas	2	3	-8.9%	2	3	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-11	-11	0.8%	-11	-11	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-16	-18	-13.3%	-16	-18	0	0	0	0	0	0
Arizona	16	16	-3.5%	16	16	0	0	0	0	0	0
Colorado	-31	-34	-8.6%	-31	-34	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	109	-53	-305.8%	109	-53	0	0	0	0	0	0
California	108	-54	-300.8%	108	-54	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	1	177.2%	2	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	-638	-902	-29.2%	-531	-787	-107	-115	0	0	0	0

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	-297	-340	-12.5%	0	0	-297	-340	0	0	0	0
Connecticut	-3	2	-313.5%	0	0	-3	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-294	-341	-13.9%	0	0	-294	-341	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	-790	-806	-1.9%	-383	-448	-407	-358	0	0	0	0
New Jersey	-111	-143	-22.5%	-111	-143	0	0	0	0	0	0
New York	-272	-305	-10.8%	-272	-305	0	0	0	0	0	0
Pennsylvania	-407	-358	13.8%	0	0	-407	-358	0	0	0	0
East North Central	-482	-523	-7.7%	-482	-523	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	-482	-523	-7.7%	-482	-523	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	108	196	-44.9%	108	196	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	108	196	-44.9%	108	196	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-2,416	-1,958	23.4%	-2,416	-1,958	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	-865	-431	100.8%	-865	-431	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	-701	-697	0.6%	-701	-697	0	0	0	0	0	0
Virginia	-849	-830	2.3%	-849	-830	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-465	-463	0.5%	-465	-463	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	-465	-463	0.5%	-465	-463	0	0	0	0	0	0
West South Central	-61	-17	261.2%	-61	-17	0	0	0	0	0	0
Arkansas	18	34	-45.4%	18	34	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-80	-50	57.6%	-80	-50	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-205	-141	46.1%	-205	-141	0	0	0	0	0	0
Arizona	18	72	-75.1%	18	72	0	0	0	0	0	0
Colorado	-223	-213	4.9%	-223	-213	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	345	1	NM	345	1	0	0	0	0	0	0
California	342	4	NM	342	4	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4	-3	-236.0%	4	-3	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,264	-4,050	5.3%	-3,560	-3,353	-705	-698	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	164	166	-1.4%	0	0	144	149	8	8	11	9
Connecticut	47	51	-8.5%	0	0	47	51	0	0	0	0
Maine	36	34	4.5%	0	0	16	17	8	8	11	9
Massachusetts	78	76	2.2%	0	0	78	76	0	0	0	0
New Hampshire	4	5	-25.6%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	220	200	9.9%	0	0	174	169	41	31	5	0
New Jersey	51	46	9.7%	0	0	33	34	12	12	5	0
New York	82	81	0.5%	0	0	62	62	20	19	0	0
Pennsylvania	87	73	20.6%	0	0	79	73	9	0	0	0
East North Central	86	93	-7.8%	1	2	10	13	15	16	60	62
Illinois	25	21	19.3%	0	0	-2	0	0	0	27	21
Indiana	28	37	-23.3%	0	0	0	0	2	NM	27	35
Michigan	27	28	-3.2%	0	0	12	13	13	14	1	1
Ohio	0	NM	NM	0	0	-1	NM	0	0	1	1
Wisconsin	6	6	2.2%	1	2	0	0	0	0	4	4
West North Central	41	39	6.1%	22	18	12	13	3	NM	4	5
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	37	35	5.8%	17	15	12	13	3	NM	4	4
Missouri	1	1	13.3%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	3	9.9%	4	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	382	435	-12.1%	0	0	176	225	8	19	198	192
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	281	287	-2.4%	0	0	125	134	0	0	156	154
Georgia	11	8	50.6%	0	0	0	0	0	0	11	8
Maryland	24	29	-19.4%	0	0	24	29	0	0	0	0
North Carolina	55	62	-11.2%	0	0	26	37	0	0	28	25
South Carolina	4	6	-40.2%	0	0	1	NM	0	0	3	5
Virginia	8	44	-80.8%	0	0	0	25	8	19	0	0
West Virginia	0	-1	-124.8%	0	0	0	-1	0	0	0	0
East South Central	6	4	68.0%	5	2	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	5	2	166.5%	5	2	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	2	9.6%	0	0	0	0	0	0	2	2
West South Central	134	143	-5.7%	0	0	12	4	0	0	123	139
Arkansas	0	0	-70.8%	0	0	0	0	0	0	0	0
Louisiana	79	65	21.9%	0	0	0	0	0	0	79	65
Oklahoma	6	4	54.2%	0	0	5	2	0	0	1	NM
Texas	49	74	-33.1%	0	0	7	NM	0	0	43	72
Mountain	57	51	11.1%	2	NM	30	28	0	0	25	23
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	6.1%	0	0	1	NM	0	0	4	NM
Idaho	7	7	-4.4%	0	0	0	0	0	0	7	7
Montana	29	26	8.8%	0	0	29	26	0	0	0	0
Nevada	2	0	--	2	0	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	15	14	7.8%	0	0	0	NM	0	0	15	13
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	91	81	13.0%	-1	NM	26	27	0	0	66	53
California	82	71	15.4%	-1	NM	17	18	0	0	66	53
Oregon	4	4	-12.8%	0	0	4	4	0	0	0	0
Washington	5	5	0.6%	0	0	5	5	0	0	0	0
Pacific Noncontiguous	36	20	80.4%	17	0	0	1	19	19	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	36	20	81.7%	17	0	0	1	19	19	0	0
U.S. Total	1,218	1,231	-1.1%	46	22	583	627	95	96	494	486

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	1,231	1,265	-2.7%	0	0	1,083	1,137	58	62	90	65
Connecticut	362	400	-9.3%	0	0	362	400	0	0	0	0
Maine	276	245	12.7%	0	0	128	117	58	62	90	65
Massachusetts	560	584	-4.1%	0	0	560	584	0	0	0	0
New Hampshire	32	36	-11.3%	0	0	32	36	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	1,550	1,558	-0.5%	0	0	1,203	1,280	302	278	45	0
New Jersey	378	358	5.3%	0	0	236	264	96	94	45	0
New York	592	603	-1.8%	0	0	449	460	144	143	0	0
Pennsylvania	580	597	-2.8%	0	0	518	556	62	41	0	0
East North Central	643	703	-8.6%	65	24	59	111	104	106	415	463
Illinois	164	158	3.5%	0	0	-13	-4	0	0	176	162
Indiana	209	267	-21.8%	0	0	0	0	13	12	196	255
Michigan	177	222	-20.3%	0	11	76	105	90	94	11	12
Ohio	56	17	233.3%	55	0	-4	9	0	0	6	8
Wisconsin	37	39	-5.5%	10	12	0	0	0	0	27	27
West North Central	301	309	-2.5%	140	155	103	96	22	23	36	36
Iowa	2	NM	NM	0	0	0	0	0	0	2	NM
Kansas	3	0	--	0	0	0	0	0	0	3	0
Minnesota	266	271	-1.8%	110	120	103	96	22	23	31	33
Missouri	2	8	-75.4%	2	8	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	28	27	2.3%	28	27	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,912	3,228	-9.8%	0	0	1,436	1,681	87	135	1,389	1,412
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	2,119	2,159	-1.8%	0	0	1,018	1,033	0	0	1,101	1,126
Georgia	79	71	11.8%	0	0	0	0	0	0	79	71
Maryland	203	217	-6.2%	0	0	203	217	0	NM	0	0
North Carolina	366	458	-20.0%	0	0	183	271	0	0	184	188
South Carolina	30	31	-4.2%	0	0	4	4	0	0	25	27
Virginia	114	297	-61.6%	0	0	27	162	87	135	0	0
West Virginia	0	-5	-91.8%	0	0	0	-5	0	0	0	0
East South Central	39	51	-23.2%	24	35	0	0	0	0	15	16
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	24	35	-32.6%	24	35	0	0	0	0	0	0
Mississippi	2	NM	NM	0	0	0	0	0	0	2	NM
Tennessee	14	12	10.4%	0	0	0	0	0	0	14	12
West South Central	873	939	-7.0%	0	0	77	24	0	0	796	915
Arkansas	3	3	2.1%	0	0	0	0	0	0	3	3
Louisiana	458	442	3.7%	0	0	0	0	0	0	458	442
Oklahoma	29	26	12.5%	0	0	30	16	0	0	0	10
Texas	382	467	-18.2%	0	0	48	8	0	0	335	459
Mountain	434	424	2.3%	20	NM	230	237	0	0	184	186
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	38	34	10.7%	0	0	10	9	0	0	27	25
Idaho	42	51	-18.4%	0	0	0	0	0	0	42	51
Montana	220	225	-2.4%	0	0	220	225	0	0	0	0
Nevada	20	NM	NM	20	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	93	113	-17.5%	0	0	0	NM	0	0	93	110
Wyoming	22	0	--	0	0	0	0	0	0	22	0
Pacific Contiguous	660	587	12.4%	-1	NM	197	196	0	0	463	391
California	599	514	16.5%	-1	NM	136	123	0	0	463	391
Oregon	25	31	-19.9%	0	NM	25	31	0	0	0	0
Washington	36	42	-15.0%	0	0	36	42	0	0	0	0
Pacific Noncontiguous	240	136	76.2%	116	NM	2	7	122	128	0	0
Alaska	-2	NM	NM	-2	NM	0	0	0	0	0	0
Hawaii	242	136	78.3%	118	0	2	7	122	128	0	0
U.S. Total	8,883	9,201	-3.5%	364	216	4,391	4,768	693	733	3,435	3,484

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	185	175	5.6%	NM	16	172	157	1	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	125	111	12.6%	0	0	125	111	0	0	0	0
Massachusetts	12	14	-19.2%	NM	NM	NM	9	1	NM	0	NM
New Hampshire	24	28	-11.8%	0	0	24	28	0	0	0	0
Rhode Island	8	NM	NM	0	0	8	NM	0	NM	0	0
Vermont	16	19	-19.6%	NM	13	NM	6	0	0	0	0
Middle Atlantic	422	366	15.1%	0	0	422	366	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	245	214	14.5%	0	0	245	214	0	0	0	NM
Pennsylvania	175	151	16.1%	0	0	175	151	0	0	0	0
East North Central	1,087	784	38.6%	141	125	943	656	NM	NM	NM	NM
Illinois	498	333	49.7%	NM	NM	497	332	NM	NM	0	0
Indiana	220	148	48.4%	0	0	220	148	0	NM	0	0
Michigan	230	203	13.7%	84	87	147	116	0	0	0	0
Ohio	56	42	32.5%	NM	NM	52	38	0	NM	NM	NM
Wisconsin	83	59	41.5%	56	36	27	22	0	0	0	NM
West North Central	3,179	3,113	2.1%	1,006	999	2,171	2,113	NM	NM	0	0
Iowa	907	791	14.7%	582	504	325	287	0	NM	0	0
Kansas	949	884	7.3%	109	52	840	833	0	0	0	0
Minnesota	452	465	-2.8%	104	107	347	356	NM	NM	0	0
Missouri	91	52	74.6%	0	0	91	52	0	0	0	0
Nebraska	199	209	-4.7%	NM	13	190	195	0	0	0	0
North Dakota	475	520	-8.7%	172	263	303	257	0	0	0	0
South Dakota	106	192	-44.7%	31	60	75	133	0	0	0	0
South Atlantic	129	78	65.5%	0	0	129	78	0	NM	0	0
Delaware	0	NM	NM	0	0	0	0	0	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	25	21	20.0%	0	0	25	21	0	0	0	0
North Carolina	25	0	--	0	0	25	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	79	57	37.8%	0	0	79	57	0	0	0	0
East South Central	NM	1	NM	0	0	NM	1	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	1	NM	0	0	NM	1	0	0	0	0
West South Central	4,818	4,946	-2.6%	85	114	4,731	4,829	1	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,117	1,234	-9.6%	71	93	1,046	1,142	0	0	0	0
Texas	3,701	3,711	-0.3%	NM	22	3,686	3,687	1	NM	0	0
Mountain	1,369	1,364	0.4%	111	127	1,256	1,235	NM	NM	0	NM
Arizona	41	21	89.1%	0	0	41	21	0	0	0	0
Colorado	586	585	0.1%	NM	7	568	577	NM	NM	0	NM
Idaho	128	139	-8.1%	0	0	128	139	0	0	0	0
Montana	88	112	-21.5%	NM	15	79	97	0	0	0	0
Nevada	NM	26	NM	0	0	NM	26	0	0	0	0
New Mexico	251	196	28.0%	0	0	251	196	NM	NM	0	0
Utah	57	67	-15.5%	0	0	57	67	0	0	0	0
Wyoming	197	218	-9.7%	86	105	111	112	0	0	0	0
Pacific Contiguous	1,858	2,660	-30.1%	433	514	1,424	2,145	0	NM	1	NM
California	952	1,450	-34.4%	108	100	843	1,349	0	NM	1	NM
Oregon	503	635	-20.9%	112	130	391	506	0	0	0	0
Washington	404	574	-29.7%	213	284	191	290	0	0	0	0
Pacific Noncontiguous	43	72	-39.7%	NM	NM	38	66	0	0	0	0
Alaska	NM	8	NM	NM	NM	NM	NM	0	0	0	0
Hawaii	36	64	-44.0%	0	0	36	64	0	0	0	0
U.S. Total	13,094	13,561	-3.4%	1,794	1,901	11,290	11,646	NM	NM	NM	NM

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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 August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	2,298	1,695	35.6%	165	168	2,113	1,501	18	24	1	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,541	1,029	49.8%	0	0	1,541	1,029	0	0	0	0
Massachusetts	153	150	2.3%	NM	40	NM	89	14	19	1	NM
New Hampshire	291	297	-1.8%	0	0	291	297	0	0	0	0
Rhode Island	98	10	918.5%	0	0	93	NM	5	NM	0	0
Vermont	205	201	2.1%	127	128	NM	73	0	0	0	0
Middle Atlantic	4,913	4,662	5.4%	0	0	4,912	4,660	0	0	1	NM
New Jersey	NM	14	NM	0	0	NM	14	0	0	0	0
New York	2,729	2,513	8.6%	0	0	2,729	2,511	0	0	1	NM
Pennsylvania	2,169	2,134	1.6%	0	0	2,169	2,134	0	0	0	0
East North Central	15,438	14,478	6.6%	1,689	1,791	13,702	12,639	NM	NM	NM	40
Illinois	7,509	6,717	11.8%	NM	9	7,498	6,704	NM	NM	0	0
Indiana	2,897	3,184	-9.0%	0	0	2,897	3,183	1	NM	0	0
Michigan	2,998	2,839	5.6%	1,006	1,175	1,992	1,665	0	0	0	0
Ohio	1,028	797	29.0%	NM	9	982	750	2	NM	NM	35
Wisconsin	1,005	940	6.9%	667	598	333	337	0	0	5	NM
West North Central	44,198	37,711	17.2%	14,298	13,117	29,880	24,573	NM	20	0	0
Iowa	13,199	12,249	7.8%	8,639	7,755	4,557	4,493	3	NM	0	0
Kansas	11,890	9,136	30.1%	1,167	579	10,722	8,557	0	0	0	0
Minnesota	6,861	6,454	6.3%	1,557	1,648	5,286	4,788	NM	19	0	0
Missouri	1,114	714	55.9%	0	0	1,114	714	0	0	0	0
Nebraska	3,124	2,295	36.1%	134	124	2,990	2,170	0	0	0	0
North Dakota	6,240	4,900	27.4%	2,247	2,395	3,993	2,505	0	0	0	0
South Dakota	1,771	1,964	-9.9%	552	618	1,219	1,347	0	0	0	0
South Atlantic	1,701	1,200	41.7%	0	0	1,698	1,197	3	NM	0	0
Delaware	3	NM	NM	0	0	0	0	3	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	326	320	1.8%	0	0	326	320	0	0	0	0
North Carolina	316	0	--	0	0	316	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	1,056	877	20.4%	0	0	1,056	877	0	0	0	0
East South Central	NM	26	NM	0	0	NM	26	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	26	NM	0	0	NM	26	0	0	0	0
West South Central	60,314	51,156	17.9%	1,177	1,087	59,112	50,041	25	28	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	15,561	12,881	20.8%	986	901	14,575	11,981	0	0	0	0
Texas	44,753	38,275	16.9%	191	186	44,537	38,060	25	28	0	0
Mountain	15,403	15,268	0.9%	1,462	1,535	13,929	13,722	NM	9	2	NM
Arizona	431	355	21.5%	0	0	431	355	0	0	0	0
Colorado	6,191	6,105	1.4%	204	68	5,977	6,028	NM	NM	2	NM
Idaho	1,448	1,640	-11.7%	0	0	1,448	1,640	0	0	0	0
Montana	1,270	1,366	-7.0%	135	148	1,135	1,219	0	0	0	0
Nevada	251	214	17.5%	0	0	251	214	0	0	0	0
New Mexico	2,671	2,351	13.6%	0	0	2,669	2,348	NM	NM	0	0
Utah	642	503	27.5%	0	0	642	503	0	0	0	0
Wyoming	2,499	2,735	-8.6%	1,123	1,319	1,376	1,415	0	0	0	0
Pacific Contiguous	18,769	21,019	-10.7%	3,764	4,415	14,998	16,596	4	NM	4	NM
California	9,888	10,372	-4.7%	580	530	9,301	9,835	4	NM	4	NM
Oregon	4,371	5,174	-15.5%	777	971	3,595	4,203	0	0	0	0
Washington	4,510	5,472	-17.6%	2,407	2,914	2,102	2,558	0	0	0	0
Pacific Noncontiguous	540	513	5.4%	NM	70	472	443	0	0	0	0
Alaska	NM	106	NM	NM	70	NM	36	0	0	0	0
Hawaii	438	407	7.6%	0	0	438	407	0	0	0	0
U.S. Total	163,604	147,728	10.7%	22,623	22,184	140,845	125,398	88	96	NM	51

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	624	640	-2.4%	56	53	450	478	16	11	102	98
Connecticut	66	76	-13.0%	0	0	66	76	0	0	0	0
Maine	247	249	-0.7%	0	0	137	142	8	8	102	98
Massachusetts	108	103	4.8%	0	0	105	103	3	0	0	0
New Hampshire	144	157	-8.2%	29	30	110	124	5	NM	0	0
Rhode Island	17	18	-8.3%	0	0	17	18	0	0	0	0
Vermont	43	37	15.4%	27	22	NM	NM	0	NM	0	0
Middle Atlantic	513	484	5.9%	0	0	393	391	48	36	72	57
New Jersey	86	82	3.9%	0	0	71	68	15	14	0	0
New York	207	198	4.3%	0	0	169	167	21	18	18	13
Pennsylvania	220	204	8.2%	0	0	153	155	13	4	54	44
East North Central	469	498	-5.9%	51	60	263	295	20	19	135	124
Illinois	49	50	-3.0%	2	NM	47	48	0	0	0	0
Indiana	37	39	-4.4%	26	27	4	5	2	NM	NM	6
Michigan	204	228	-10.4%	0	0	133	156	14	15	58	58
Ohio	62	66	-6.4%	NM	NM	38	44	1	NM	22	21
Wisconsin	117	115	1.6%	23	31	41	43	4	NM	49	39
West North Central	221	216	2.4%	48	48	100	97	12	16	60	55
Iowa	21	22	-5.8%	NM	3	10	11	NM	NM	5	5
Kansas	5	5	-4.5%	0	0	5	5	0	0	0	0
Minnesota	173	165	4.7%	35	35	81	76	NM	5	55	49
Missouri	14	15	-7.5%	NM	4	NM	5	6	6	0	NM
Nebraska	8	8	1.2%	7	7	0	0	1	NM	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,662	1,669	-0.4%	139	187	549	564	15	31	959	887
Delaware	6	7	-2.8%	0	0	5	5	0	0	NM	NM
District of Columbia	2	0	--	0	0	2	0	0	0	0	0
Florida	383	389	-1.4%	6	7	200	210	NM	NM	174	168
Georgia	449	404	11.1%	0	0	101	64	0	NM	348	339
Maryland	43	45	-3.9%	0	0	31	37	NM	NM	12	6
North Carolina	225	218	3.0%	0	0	101	103	NM	6	123	109
South Carolina	230	214	7.6%	31	39	39	36	0	0	160	140
Virginia	324	392	-17.5%	102	141	71	109	10	20	141	123
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	544	543	0.2%	7	8	32	34	0	0	505	502
Alabama	290	287	1.1%	0	0	24	25	0	0	266	261
Kentucky	36	41	-11.3%	7	8	1	NM	0	0	28	32
Mississippi	129	128	0.8%	0	0	NM	NM	0	0	128	127
Tennessee	89	87	1.9%	0	0	6	7	0	0	83	81
West South Central	526	570	-7.8%	0	6	67	116	3	NM	455	446
Arkansas	123	118	4.8%	0	0	7	7	1	NM	116	110
Louisiana	242	235	2.7%	0	0	8	8	0	0	234	227
Oklahoma	28	27	3.1%	0	0	NM	NM	0	0	27	26
Texas	133	190	-30.2%	0	6	52	99	3	NM	78	83
Mountain	90	87	3.2%	NM	NM	55	55	1	NM	33	29
Arizona	20	20	3.8%	0	0	20	20	0	0	0	0
Colorado	14	8	62.8%	0	0	14	8	0	0	0	0
Idaho	45	47	-3.8%	NM	NM	12	18	1	NM	31	27
Montana	2	NM	NM	0	0	0	0	0	0	2	NM
Nevada	NM	2	NM	0	0	NM	2	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	6	7	-17.4%	0	0	6	6	0	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	791	814	-2.8%	57	65	441	462	67	73	226	214
California	522	545	-4.2%	10	14	398	413	63	70	50	47
Oregon	84	89	-5.2%	5	6	32	37	NM	NM	45	44
Washington	185	181	2.7%	43	45	11	11	NM	NM	131	123
Pacific Noncontiguous	30	36	-16.7%	6	6	0	0	24	24	NM	6
Alaska	4	4	1.1%	0	0	0	0	4	4	NM	NM
Hawaii	26	32	-19.0%	6	6	0	0	20	20	0	6
U.S. Total	5,470	5,557	-1.6%	367	434	2,350	2,491	208	215	2,546	2,417

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	4,795	4,910	-2.4%	385	412	3,472	3,666	111	81	827	751
Connecticut	516	586	-12.0%	0	0	516	586	0	0	0	0
Maine	1,993	1,948	2.3%	0	0	1,105	1,138	62	59	827	751
Massachusetts	787	792	-0.6%	0	0	767	791	20	NM	0	0
New Hampshire	1,061	1,118	-5.1%	198	200	835	898	28	20	0	0
Rhode Island	137	140	-2.2%	0	0	137	140	0	0	0	0
Vermont	300	326	-7.9%	187	212	112	113	2	NM	0	0
Middle Atlantic	3,821	3,789	0.8%	0	0	2,894	2,960	370	335	557	494
New Jersey	629	642	-2.1%	0	0	514	527	114	115	0	0
New York	1,531	1,520	0.7%	0	0	1,240	1,240	153	142	138	137
Pennsylvania	1,662	1,627	2.1%	0	0	1,140	1,192	103	78	419	357
East North Central	3,668	3,839	-4.4%	417	454	2,089	2,209	148	137	1,014	1,038
Illinois	376	384	-2.0%	14	13	362	371	0	0	0	0
Indiana	272	300	-9.4%	178	206	34	36	14	12	46	46
Michigan	1,586	1,670	-5.1%	0	NM	1,074	1,130	94	95	417	445
Ohio	489	515	-5.0%	NM	NM	315	336	5	5	163	171
Wisconsin	945	970	-2.5%	218	232	305	337	35	25	387	376
West North Central	1,635	1,584	3.2%	346	362	733	742	87	88	469	392
Iowa	119	173	-31.2%	21	19	50	86	17	24	31	43
Kansas	42	49	-15.2%	0	0	40	42	0	0	1	7
Minnesota	1,293	1,185	9.1%	244	260	607	576	NM	19	427	330
Missouri	110	101	9.0%	30	28	36	37	42	34	2	NM
Nebraska	64	66	-2.8%	51	55	0	0	12	11	0	0
North Dakota	7	10	-25.5%	0	0	0	0	0	0	7	10
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	12,712	12,596	0.9%	1,160	1,220	4,327	4,203	164	244	7,061	6,929
Delaware	49	50	-2.1%	0	0	39	41	0	0	NM	9
District of Columbia	31	0	--	0	0	31	0	0	0	0	0
Florida	3,322	3,048	9.0%	56	59	1,825	1,607	34	33	1,407	1,349
Georgia	3,139	3,095	1.4%	0	0	528	468	0	5	2,610	2,623
Maryland	349	360	-3.1%	0	0	260	274	NM	17	80	69
North Carolina	1,501	1,627	-7.8%	0	0	772	794	NM	45	704	788
South Carolina	1,800	1,607	12.1%	288	281	281	277	0	0	1,231	1,049
Virginia	2,521	2,806	-10.1%	816	880	589	739	98	144	1,018	1,043
West Virginia	1	NM	NM	0	0	1	NM	0	0	0	0
East South Central	4,066	4,182	-2.8%	47	58	244	243	0	0	3,775	3,881
Alabama	2,127	2,190	-2.8%	0	0	181	178	0	0	1,947	2,012
Kentucky	268	309	-13.3%	47	58	5	5	0	0	215	246
Mississippi	1,017	1,019	-0.2%	0	0	NM	9	0	0	1,008	1,010
Tennessee	654	665	-1.5%	0	0	50	52	0	0	604	613
West South Central	3,969	4,112	-3.5%	0	19	570	675	25	28	3,373	3,391
Arkansas	973	917	6.1%	0	0	65	70	4	3	904	844
Louisiana	1,773	1,790	-0.9%	0	0	60	63	0	0	1,713	1,727
Oklahoma	170	211	-19.2%	0	0	NM	9	0	0	167	202
Texas	1,052	1,194	-11.9%	0	19	443	533	21	25	589	617
Mountain	720	710	1.5%	NM	8	448	420	15	14	249	267
Arizona	152	144	5.7%	0	0	152	144	0	0	0	0
Colorado	112	63	78.1%	0	0	112	63	0	0	0	0
Idaho	363	402	-9.9%	NM	8	112	136	8	5	235	253
Montana	14	14	-3.6%	0	0	0	0	0	0	14	14
Nevada	NM	17	NM	0	0	NM	17	0	0	0	0
New Mexico	11	12	-7.9%	0	0	11	12	0	0	0	0
Utah	51	56	-9.1%	0	0	44	48	7	9	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,025	6,061	-0.6%	457	470	3,352	3,369	545	595	1,671	1,628
California	4,018	4,075	-1.4%	91	135	3,018	3,015	515	571	394	354
Oregon	662	667	-0.7%	40	46	258	270	19	12	346	340
Washington	1,345	1,319	1.9%	326	290	75	84	NM	12	932	934
Pacific Noncontiguous	194	255	-23.8%	37	26	0	0	153	166	NM	63
Alaska	30	36	-16.5%	0	0	0	0	26	32	NM	4
Hawaii	164	218	-25.0%	37	26	0	0	127	134	0	59
U.S. Total	41,605	42,037	-1.0%	2,858	3,031	18,130	18,486	1,618	1,687	18,999	18,833

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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, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 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	392	344	13.8%	23	22	369	322	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	8	8	-0.6%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	338	292	15.8%	0	0	338	292	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	45	43	4.8%	23	22	22	21	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,080	1,075	0.5%	68	72	1,012	1,003	0	0	0	0
California	1,059	1,065	-0.5%	68	71	992	994	0	0	0	0
Oregon	20	10	105.7%	0	NM	20	9	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	25	-12.5%	0	0	22	25	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	25	-12.5%	0	0	22	25	0	0	0	0
U.S. Total	1,493	1,444	3.4%	91	94	1,402	1,350	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 August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	3,082	2,928	5.2%	181	168	2,901	2,760	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	63	63	-1.1%	0	0	63	63	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,657	2,513	5.7%	0	0	2,657	2,513	0	0	0	0
New Mexico	9	10	-9.7%	0	0	9	10	0	0	0	0
Utah	353	342	3.2%	181	168	171	173	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	8,500	8,267	2.8%	526	547	7,973	7,721	0	0	0	0
California	8,335	8,145	2.3%	525	535	7,811	7,610	0	0	0	0
Oregon	164	122	34.4%	2	NM	163	111	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	169	155	8.9%	0	0	169	155	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	169	155	8.9%	0	0	169	155	0	0	0	0
U.S. Total	11,750	11,351	3.5%	707	715	11,043	10,636	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	369	278	32.6%	123	87	245	191	8	NM	115	83	136	NM	1	NM	135	102	10	9	0	0	10	9	100	81
Connecticut	51	39	31.1%	7	NM	44	35	0	NM	6	NM	16	14	0	0	16	14	2	2	0	0	2	2	26	20
Maine	4	3	38.9%	0	0	4	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	270	210	28.8%	102	74	168	136	2	NM	99	71	108	NM	1	NM	107	80	7	7	0	0	7	7	54	49
New Hampshire	10	6	64.3%	0	0	10	6	0	0	0	0	3	2	0	0	3	2	1	0	0	0	1	0	6	4
Rhode Island	8	4	87.2%	2	NM	6	2	0	0	2	NM	3	1	0	0	3	1	0	0	0	0	0	0	3	1
Vermont	26	16	56.8%	13	8	13	9	6	NM	7	7	5	3	0	0	5	3	0	0	0	0	0	0	8	6
Middle Atlantic	526	442	19.0%	155	136	371	306	10	11	124	106	198	180	18	18	179	162	20	NM	2	NM	18	16	174	128
New Jersey	322	285	13.1%	122	108	200	177	10	11	94	80	132	130	17	17	115	113	NM	NM	NM	NM	11	8	74	55
New York	156	118	32.1%	24	20	132	98	0	0	23	19	NM	NM	NM	NM	49	35	1	1	0	0	1	1	81	62
Pennsylvania	48	39	22.1%	9	9	39	31	0	0	7	7	NM	NM	NM	NM	15	14	7	NM	1	NM	6	6	18	11
East North Central	107	72	48.8%	70	46	36	26	26	9	44	36	NM	NM	NM	NM	21	18	NM	NM	0	NM	NM	NM	13	7
Illinois	13	10	25.4%	6	6	7	4	0	NM	6	6	4	3	0	0	4	3	NM	0	0	0	NM	0	3	1
Indiana	40	30	34.4%	36	28	4	1	13	6	24	22	2	1	0	0	2	1	NM	NM	0	0	NM	NM	2	1
Michigan	NM	7	NM	12	NM	NM	5	12	NM	0	0	2	3	0	0	2	3	NM	NM	0	0	NM	NM	3	1
Ohio	27	21	32.0%	13	9	14	12	1	NM	11	7	NM	NM	NM	NM	11	9	NM	NM	0	NM	NM	1	3	2
Wisconsin	9	4	107.9%	3	NM	6	4	0	0	3	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	2
West North Central	129	37	248.5%	91	8	38	29	NM	NM	89	7	21	NM	0	NM	20	16	1	1	0	0	1	1	17	12
Iowa	NM	6	NM	NM	0	9	6	NM	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	3	2
Kansas	NM	1	NM	NM	NM	2	1	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Minnesota	88	6	NM	82	NM	6	4	NM	NM	82	NM	3	2	0	0	3	2	0	0	0	0	0	0	3	2
Missouri	27	23	18.5%	6	5	21	18	0	1	5	4	11	NM	0	NM	11	10	0	0	0	0	0	0	10	8
Nebraska	2	1	48.1%	1	NM	1	0	0	0	1	NM	NM	NM	0	0	NM	NM	NM	NM	0	0	NM	NM	0	0
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	NM	0	NM	NM	0	0	0	0	0	NM	0	NM	0	0	0	NM	0	0	0	0	0	0	0	0	0
South Atlantic	1,156	708	63.3%	950	559	206	149	145	53	792	492	92	96	14	14	78	82	24	5	0	0	24	5	103	62
Delaware	20	18	12.6%	6	6	14	12	NM	NM	5	5	NM	NM	NM	NM	8	7	1	0	0	0	1	0	6	5
District of Columbia	8	6	35.4%	0	0	8	6	0	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	2	2
Florida	97	42	132.9%	69	19	28	22	54	10	15	9	NM	NM	NM	NM	9	11	1	1	0	0	1	1	18	11
Georgia	NM	101	NM	211	86	NM	NM	25	7	185	79	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	121	100	21.2%	29	31	92	69	1	NM	27	29	NM	NM	NM	NM	33	30	4	4	0	0	4	4	56	36
North Carolina	605	432	40.1%	587	417	19	15	48	34	527	370	24	24	12	13	12	12	1	0	0	0	1	0	5	4
South Carolina	29	4	653.2%	14	NM	15	3	0	0	14	NM	4	1	0	0	4	1	NM	NM	0	0	NM	NM	10	3
Virginia	43	5	752.0%	35	NM	8	4	16	NM	19	0	4	2	0	0	4	2	0	NM	0	0	0	NM	4	3
West Virginia	1	1	31.0%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
East South Central	61	20	204.8%	48	11	13	9	6	2	42	8	NM	NM	NM	NM	10	9	NM	0	0	0	NM	0	3	1
Alabama	NM	0	NM	21	0	NM	0	4	0	17	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	4	4	14.6%	2	2	3	2	2	2	0	0	2	1	0	0	2	1	0	0	0	0	0	0	1	0
Mississippi	12	1	NM	11	0	1	1	0	0	11	0	1	0	0	0	1	0	NM	0	0	0	NM	0	0	0
Tennessee	23	15	47.8%	14	9	9	7	0	0	13	8	NM	NM	NM	NM	7	6	0	0	0	0	0	0	1	0
West South Central	317	122	159.0%	225	66	92	57	NM	NM	224	65	26	NM	0	NM	26	15	NM	0	0	0	NM	0	66	42
Arkansas	3	4	-11.2%	2	NM	1	1	NM	NM	2	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	21	19	9.7%	0	0	21	19	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	19	18
Oklahoma	1	1	27.6%	1	0	1	1	1	0	0	0	0	0	0	0	0	0	NM	0	0	0	NM	0	NM	0
Texas	291	99	195.6%	222	62	69	36	NM	0	221	62	24	NM	0	NM	24	13	0	0	0	0	0	0	45	23
Mountain	1,551	1,067	45.4%	1,248	799	303	268	94	81	1,143	706	92	99	11	12	80	87	15	NM	0	NM	15	17	207	164
Arizona	568	450	26.1%	403	299	164	151	65	51	336	245	45	NM	2	NM	42	47	12	14	0	0	12	14	110	91
Colorado	144	89	62.1%	92	43	52	45	NM	0	90	42	22	NM	2	NM	20	19	0	0	0	0	0	0	31	26
Idaho	59	7	756.7%	57	6	2	1	0	0	57	6	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	NM	1	NM	NM	0	2	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Nevada	417	267	55.9%	384	230	33	38	4	NM	372	218	11	17	8	8	3	9	2	NM	0	NM	2	2	28	26
New Mexico	133	94	41.3%	114	79	19	15	24	26	90	54	7	7	0	0	7	7	0	0	0	0	0	0	12	8
Utah	227	158	43.6%	197	142	30	16	0	0	197	142	6	4	0	0	6	4	1	1	0	0	1	1	23	11
Wyoming	NM	0	NM	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	3,304	2,757	19.8%	2,155	1,860	1,149	898	59	54	2,079	1,791	278	216	13	13	265	202	191	NM	4	NM	186	139	697	557
California	3,244	2,726	19.0%	2,132	1,854	1,112	871	58	53	2,057	1,787	266	208	13	13	253	194	189	NM	4	NM	185	138	674	539
Oregon	45	20	126.7%	22	5	22	15	NM	NM	22	4	10	6	0	0	10	6	2	1	0	0	2	1	11	8
Washington	15	12	26.0%	0	0	15	12	0	0	0	0	2	2	0	0	2	2	NM	0	0	0	NM	0	12	10
Pacific Noncontiguous	112	80	40.0%	20	10	93	70	5	5	15	5	35	25	0	0	35	25	0	0	0	0	0	0	58	45
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	112	80	39.7%	20	10	92	70	5	5	15	5	35	25	0	0	35	25	0	0	0	0	0	0	58	45
U.S. Total	7,632	5,584	36.7%	5,086	3,581	2,546	2,004	354	220	4,666	3,298	909	777	58	59	850	718	264	NM	7	NM	258	186	1,438	1,100

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

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	2,386	1,824	30.8%	780	573	1,606	1,250	52	17	723	551	900	697	5	NM	896	692	69	58	0	0	69	58	641	500
Connecticut	329	245	34.4%	34	19	295	226	3	NM	32	16	113	91	0	0	113	91	15	11	0	0	15	11	167	124
Maine	29	21	37.3%	0	0	29	21	0	0	0	0	10	7	0	0	10	7	0	0	0	0	0	0	19	13
Massachusetts	1,740	1,383	25.8%	641	491	1,099	893	11	11	625	474	706	556	5	NM	702	551	50	46	0	0	50	46	347	295
New Hampshire	65	37	74.7%	0	0	65	37	0	0	0	0	21	11	0	0	21	11	4	1	0	0	4	1	40	25
Rhode Island	49	29	72.0%	13	14	36	15	0	0	13	14	18	10	0	0	18	10	0	0	0	0	0	0	18	4
Vermont	175	109	60.3%	91	50	83	59	38	NM	53	47	32	20	0	0	32	20	0	0	0	0	0	0	51	38
Middle Atlantic	3,573	2,978	20.0%	1,045	896	2,528	2,082	73	77	831	691	1,390	1,273	127	118	1,263	1,156	144	125	14	10	129	115	1,136	811
New Jersey	2,229	1,939	14.9%	829	716	1,400	1,223	73	77	630	524	955	930	118	112	837	818	83	65	NM	NM	75	62	488	343
New York	1,008	765	31.8%	156	123	852	642	0	0	152	120	320	244	NM	NM	316	242	10	10	0	0	10	10	527	391
Pennsylvania	336	274	22.6%	60	57	276	217	0	0	49	47	115	100	NM	NM	110	96	51	50	NM	7	44	44	121	77
East North Central	690	467	47.8%	453	294	237	173	148	50	301	238	145	124	NM	NM	143	121	15	9	1	NM	14	5	80	47
Illinois	77	67	14.9%	39	41	38	26	1	NM	37	39	22	18	0	0	22	18	0	0	0	0	0	0	16	8
Indiana	274	193	42.3%	255	183	20	10	89	30	165	153	9	4	0	0	9	4	1	0	0	0	1	0	9	6
Michigan	96	43	124.0%	50	10	46	33	50	10	0	0	26	23	0	0	26	23	1	1	0	0	1	1	19	9
Ohio	186	137	35.7%	91	58	95	80	NM	7	81	44	74	65	NM	NM	71	62	5	7	1	NM	4	3	20	14
Wisconsin	56	27	109.5%	18	NM	38	25	0	0	18	NM	14	14	0	0	14	14	8	1	0	0	8	1	16	10
West North Central	790	234	236.8%	538	40	252	195	9	2	527	36	138	111	1	NM	137	110	6	3	0	0	6	3	109	82
Iowa	61	39	56.4%	NM	0	57	39	NM	0	0	0	39	26	0	0	39	26	2	1	0	0	2	1	17	12
Kansas	12	9	37.2%	NM	NM	10	7	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	0	0	6	4
Minnesota	521	35	NM	482	8	38	26	NM	NM	479	8	17	13	0	0	17	13	3	2	0	0	3	2	19	12
Missouri	181	147	23.6%	39	27	142	120	2	2	36	23	78	68	1	NM	76	67	1	1	0	0	1	1	65	53
Nebraska	12	5	162.9%	9	NM	3	2	0	0	9	NM	1	0	0	0	1	0	0	0	0	0	0	0	2	1
North Dakota	0	0	12.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	1	272.7%	NM	0	1	1	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
South Atlantic	7,914	4,548	74.0%	6,502	3,524	1,413	1,023	1,044	312	5,362	3,115	668	699	95	97	573	601	160	34	0	0	160	34	680	388
Delaware	139	122	14.4%	40	39	99	83	NM	5	34	33	56	53	NM	NM	55	52	4	3	0	0	4	3	40	27
District of Columbia	53	37	44.9%	0	0	53	37	0	0	0	0	37	26	0	0	37	26	0	0	0	0	0	0	16	11
Florida	705	291	141.9%	502	122	203	170	425	67	74	54	73	90	NM	NM	71	89	6	4	0	0	6	4	126	77
Georgia	1,675	606	176.6%	1,522	485	153	120	191	51	1,328	432	33	118	NM	NM	30	116	113	1	0	0	113	1	10	4
Maryland	817	635	28.7%	197	182	619	453	NM	7	186	170	241	222	NM	5	236	217	27	24	0	0	27	24	356	212
North Carolina	4,101	2,800	46.5%	3,964	2,689	138	112	318	178	3,562	2,423	181	172	85	88	97	85	4	2	0	0	4	2	37	25
South Carolina	137	19	610.7%	47	NM	90	16	0	0	47	NM	22	3	0	0	22	3	6	0	0	0	6	0	63	13
Virginia	282	34	733.5%	230	NM	52	30	99	NM	131	0	23	13	0	0	23	13	0	0	0	0	0	0	28	17
West Virginia	6	4	28.5%	0	0	6	4	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	3
East South Central	370	130	184.2%	279	66	91	64	28	6	247	57	72	63	NM	NM	68	61	0	0	0	0	0	0	22	4
Alabama	141	3	NM	137	0	4	3	16	0	121	0	3	2	0	0	3	2	0	0	0	0	0	0	1	0
Kentucky	29	18	57.6%	12	6	16	12	12	6	0	0	11	9	0	0	11	9	0	0	0	0	0	0	5	3
Mississippi	47	4	NM	32	0	16	4	0	0	32	0	6	3	0	0	6	3	0	0	0	0	0	0	10	0
Tennessee	152	105	44.4%	98	60	54	46	0	0	95	57	52	48	NM	NM	48	46	0	0	0	0	0	0	6	0
West South Central	2,089	870	140.1%	1,471	489	618	381	8	5	1,461	482	174	108	1	NM	172	106	1	0	0	0	1	0	444	275
Arkansas	27	27	2.3%	20	22	7	5	NM	NM	19	20	3	2	0	0	3	2	0	0	0	0	0	0	4	3
Louisiana	150	135	11.6%	0	0	150	135	0	0	0	0	10	9	0	0	10	9	0	0	0	0	0	0	141	126
Oklahoma	16	8	114.2%	4	4	12	4	4	4	0	0	6	2	0	0	6	2	1	0	0	0	1	0	6	2
Texas	1,895	701	170.3%	1,447	464	448	238	NM	0	1,443	462	155	95	1	NM	154	94	0	0	0	0	0	0	294	144
Mountain	10,837	6,946	56.0%	8,631	4,983	2,205	1,963	640	580	7,911	4,320	678	751	80	82	597	669	121	137	0	NM	121	135	1,487	1,159
Arizona	4,111	3,335	23.3%	2,856	2,185	1,255	1,150	437	374	2,405	1,796	354	387	15	15	339	371	96	113	0	0	96	113	819	666
Colorado	1,018	642	58.5%	647	313	371	329	NM	0	635	302	161	154	NM	11	150	143	2	2	0	0	2	2	220	184
Idaho	358	12	NM	348	6	11	7	0	0	348	6	3	2	0	0	3	2	0	0	0	0	0	0	8	4
Montana	16	8	109.2%	6	0	10	8	0	0	6	0	3	2	0	0	3	2	0	0	0	0	0	0	7	5
Nevada	2,802	1,812	54.6%	2,559	1,553	243	259	30	25	2,474	1,470	78	123	55	56	24	67	17	17	0	NM	17	16	203	177
New Mexico	931	642	44.9%	811	527	120	115	173	180	638	347	35	54	0	0	35	54	0	1	0	0	0	1	85	61
Utah	1,597	492	224.7%	1,405	398	192	94	0	0	1,405	398	43	29	0	0	43	29	5	4	0	0	5	4	144	61
Wyoming	3	2	30.2%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Pacific Contiguous	22,574	17,383	29.9%	14,952	11,453	7,622	5,930	389	373	14,454	10,982	1,817	1,455	92	91	1,725	1,364	1,237	915	17	8	1,219	907	4,678	3,659
California	22,202	17,200	29.1%	14,794	11,420	7,408	5,780	384	367	14,301	10,954	1,747	1,410	92	91	1,655	1,319	1,227	911	17	8	1,210	903	4,543	3,558
Oregon	287	116	146.9%	157	33	130	83	NM	5	152	28	57	35	0	0	57	35	9	4	0	0	9	4	64	45
Washington	85	67	27.5%	0	1	85	66	0	1	0	0	13	10	0	0	13	10	0	0	0	0	0	0	71	56
Pacific Noncontiguous	775	563	37.8%	114	63	661	499	31	35	84	29	243	170	0	0	243	170	2	1	0	0	2	1	416	328
Alaska	2	0	--	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
Hawaii	773	563	37.5%	114	63	659	499	31	35	84	29	243	170	0	0	243	170	2	1	0	0	2	1	415	328
U.S. Total	51,998	35,943	44.7%	34,765	22,382	17,233	13,561	2,424	1,457	31,901	20,501	6,226	5,450	408	401	5,817	5,049	1,754	1,283	32	23	1,722	1,260	9,694	7,252

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

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, August 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	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 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	4	7	-36.7%	4	7	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	4	7	-36.7%	4	7	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	86	84	3.0%	0	0	86	84	0	0	0	0
Arizona	64	43	48.9%	0	0	64	43	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	22	41	-45.3%	0	0	22	41	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	251	277	-9.6%	0	0	251	277	0	0	0	0
California	251	277	-9.6%	0	0	251	277	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	341	368	-7.2%	4	7	337	361	0	0	0	0

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

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

by State, by Sector, Year-to-Date through August 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	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	7	60	-89.0%	7	60	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	7	60	-89.0%	7	60	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	625	667	-6.3%	0	0	625	667	0	0	0	0
Arizona	516	485	6.4%	0	0	516	485	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	109	182	-40.1%	0	0	109	182	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,720	1,769	-2.8%	0	0	1,720	1,769	0	0	0	0
California	1,720	1,769	-2.8%	0	0	1,720	1,769	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	2,352	2,497	-5.8%	7	60	2,345	2,436	0	0	0	0

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	678,005	498,170	176,311	148	3,376
Year 2015					
January	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
Year 2016					
January	62,048	45,567	16,149	14	319
February	50,567	37,652	12,604	15	296
March	39,857	31,044	8,495	14	304
April	38,989	28,663	10,062	11	254
May	45,036	33,834	10,933	9	260
June	63,326	46,363	16,644	10	310
July	74,241	54,196	19,706	11	328
August	73,868	53,927	19,600	12	330
Sept	62,428	44,869	17,280	12	267
October	54,634	39,517	14,858	13	246
November	48,126	35,274	12,624	13	215
December	64,883	47,265	17,356	15	249
Year 2017					
January	63,542	46,896	16,329	16	300
February	48,155	35,793	12,083	12	267
March	48,915	35,948	12,697	12	259
April	44,455	31,772	12,449	8	225
May	51,082	37,683	13,142	8	249
June	59,206	44,127	14,801	8	270
July	70,150	52,403	17,458	10	279
August	66,047	49,326	16,437	9	275
Year to Date					
2015	521,945	380,472	138,622	116	2,735
2016	447,933	331,244	114,193	95	2,400
2017	451,552	333,948	115,396	84	2,124
Rolling 12 Months Ending in August					
2016	665,582	490,278	171,497	142	3,664
2017	681,624	500,874	177,515	136	3,100

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	14,264	1,061	1,733	544	10,926
Year 2015					
January	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
Year 2016					
January	1,500	103	152	62	1,184
February	1,393	90	141	63	1,099
March	1,376	108	142	61	1,065
April	1,049	89	170	39	752
May	1,135	81	135	31	889
June	1,175	81	155	36	902
July	1,176	83	151	35	906
August	1,173	90	141	39	904
Sept	1,040	77	140	37	786
October	1,009	76	149	37	747
November	1,036	84	120	48	784
December	1,201	99	138	57	907
Year 2017					
January	1,285	111	140	46	987
February	1,075	97	122	38	818
March	1,184	102	155	43	884
April	1,048	87	132	29	799
May	1,064	82	131	28	823
June	1,028	76	105	34	813
July	1,005	94	112	40	759
August	1,016	86	112	36	783
Year to Date					
2015	11,402	683	1,385	448	8,887
2016	9,978	725	1,186	365	7,702
2017	8,703	736	1,009	293	6,666
Rolling 12 Months Ending in August					
2016	15,207	1,074	1,781	552	11,801
2017	12,990	1,072	1,556	473	9,889

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	692,269	499,231	178,044	692	14,302
Year 2015					
January	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
Year 2016					
January	63,549	45,669	16,301	76	1,503
February	51,960	37,742	12,745	78	1,395
March	41,233	31,151	8,636	75	1,370
April	40,039	28,752	10,232	49	1,006
May	46,171	33,915	11,068	40	1,149
June	64,502	46,444	16,799	46	1,212
July	75,416	54,279	19,857	46	1,234
August	75,041	54,017	19,740	50	1,234
Sept	63,469	44,946	17,420	49	1,053
October	55,643	39,594	15,007	50	993
November	49,162	35,358	12,744	61	998
December	66,084	47,364	17,494	71	1,155
Year 2017					
January	64,827	47,008	16,469	62	1,288
February	49,230	35,890	12,204	50	1,085
March	50,099	36,050	12,851	55	1,143
April	45,502	31,860	12,582	37	1,024
May	52,146	37,765	13,274	36	1,071
June	60,235	44,203	14,906	42	1,083
July	71,155	52,497	17,570	50	1,038
August	67,063	49,412	16,548	45	1,058
Year to Date					
2015	533,347	381,155	140,007	564	11,622
2016	457,911	331,969	115,378	460	10,103
2017	460,256	334,684	116,405	377	8,789
Rolling 12 Months Ending in August					
2016	680,789	491,352	173,278	694	15,465
2017	694,614	501,946	179,071	609	12,989

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	21,225	15,668	4,841	132	584
Year 2015					
January	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
Year 2016					
January	2,330	1,681	589	12	48
February	2,111	1,405	645	14	47
March	1,367	1,045	284	NM	31
April	1,319	1,016	262	10	31
May	1,565	1,173	325	11	56
June	1,577	1,242	281	9	44
July	2,205	1,677	461	11	57
August	2,195	1,630	498	15	52
Sept	1,532	1,112	370	10	41
October	1,566	1,140	352	11	64
November	1,560	1,198	305	11	46
December	1,899	1,350	470	13	67
Year 2017					
January	1,981	1,492	411	29	48
February	1,558	1,180	322	15	41
March	1,652	1,341	249	21	42
April	1,487	1,213	224	14	37
May	1,699	1,306	338	15	39
June	1,670	1,286	330	14	40
July	1,828	1,249	514	18	48
August	1,654	1,271	324	19	39
Year to Date					
2015	22,427	13,593	8,143	220	472
2016	14,668	10,869	3,345	88	367
2017	13,529	10,339	2,711	146	333
Rolling 12 Months Ending in August					
2016	21,166	15,839	4,675	NM	535
2017	20,087	15,138	4,208	190	550

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	126	1,374
Year 2015					
January	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
Year 2016					
January	244	4	84	16	140
February	223	7	68	16	132
March	183	0	89	NM	87
April	180	1	79	10	91
May	209	0	86	9	114
June	197	2	78	8	109
July	239	0	87	11	140
August	233	0	94	10	129
Sept	186	1	88	9	89
October	231	0	89	9	133
November	184	0	78	8	97
December	225	2	95	13	115
Year 2017					
January	251	4	100	30	117
February	175	4	70	24	77
March	162	1	47	25	89
April	198	0	82	12	104
May	215	0	83	19	113
June	210	1	91	14	104
July	214	0	95	16	103
August	206	1	89	20	96
Year to Date					
2015	2,304	58	793	265	1,189
2016	1,708	16	664	87	941
2017	1,631	12	658	160	801
Rolling 12 Months Ending in August					
2016	2,546	20	1,026	NM	1,395
2017	2,457	15	1,008	200	1,235

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	23,760	15,687	5,855	258	1,959
Year 2015					
January	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
Year 2016					
January	2,574	1,685	673	28	188
February	2,334	1,412	713	30	179
March	1,549	1,045	373	NM	118
April	1,499	1,017	341	20	121
May	1,773	1,173	410	20	170
June	1,774	1,245	359	17	153
July	2,444	1,677	548	22	197
August	2,428	1,630	592	25	181
Sept	1,718	1,112	458	18	130
October	1,797	1,140	441	20	196
November	1,744	1,198	384	19	143
December	2,125	1,352	565	26	182
Year 2017					
January	2,233	1,496	512	59	165
February	1,733	1,185	392	39	117
March	1,814	1,341	296	46	131
April	1,686	1,214	306	26	140
May	1,914	1,307	421	35	151
June	1,880	1,287	421	28	144
July	2,042	1,249	609	34	150
August	1,859	1,272	413	39	135
Year to Date					
2015	24,732	13,651	8,936	485	1,660
2016	16,376	10,885	4,009	175	1,308
2017	15,160	10,350	3,369	306	1,134
Rolling 12 Months Ending in August					
2016	23,711	15,858	5,701	NM	1,931
2017	22,544	15,153	5,216	390	1,785

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243
Year 2015					
January	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
Year 2016					
January	341	302	17	0	22
February	329	272	39	0	17
March	366	283	63	0	20
April	390	326	43	0	21
May	371	296	52	0	23
June	382	308	52	0	22
July	403	325	56	0	22
August	422	337	62	0	23
Sept	383	311	50	0	22
October	246	172	62	0	13
November	304	240	47	0	18
December	337	261	56	0	21
Year 2017					
January	362	301	44	0	16
February	266	217	36	0	13
March	276	215	43	0	19
April	154	110	32	0	12
May	321	264	41	0	15
June	344	283	42	0	19
July	333	271	43	0	18
August	286	227	43	0	16
Year to Date					
2015	2,832	2,189	463	1	179
2016	3,004	2,447	386	1	170
2017	2,342	1,888	324	1	128
Rolling 12 Months Ending in August					
2016	4,216	3,378	593	2	244
2017	3,613	2,872	538	2	202

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,016	2	105	9	900
Year 2015					
January	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
Year 2016					
January	79	0	10	2	66
February	87	0	9	2	76
March	108	0	10	2	96
April	71	0	6	0	64
May	74	0	6	0	67
June	79	0	8	0	71
July	85	0	8	1	76
August	84	0	9	0	75
Sept	65	0	9	0	56
October	112	0	10	0	102
November	77	0	9	0	68
December	95	0	10	2	84
Year 2017					
January	74	0	9	2	63
February	66	0	9	1	56
March	87	0	10	2	75
April	74	0	9	1	65
May	82	0	10	1	72
June	95	0	9	1	85
July	87	0	9	0	77
August	90	1	9	2	78
Year to Date					
2015	771	5	73	9	683
2016	667	2	67	7	591
2017	655	3	72	9	570
Rolling 12 Months Ending in August					
2016	1,041	5	103	14	918
2017	1,005	4	110	11	879

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144
Year 2015					
January	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
Year 2016					
January	420	302	27	3	89
February	416	272	49	2	93
March	474	283	74	2	116
April	461	326	50	0	85
May	445	296	58	0	90
June	461	308	60	0	93
July	488	325	65	1	98
August	506	337	71	0	98
Sept	448	311	59	0	78
October	359	172	72	0	115
November	381	240	56	0	85
December	433	261	65	2	104
Year 2017					
January	436	301	53	2	79
February	332	218	45	1	69
March	363	215	52	2	94
April	229	110	42	1	76
May	403	265	51	1	87
June	439	283	51	1	104
July	420	272	52	0	95
August	376	228	51	2	94
Year to Date					
2015	3,602	2,195	536	11	862
2016	3,671	2,449	453	8	761
2017	2,998	1,892	397	11	698
Rolling 12 Months Ending in August					
2016	5,257	3,383	696	16	1,163
2017	4,618	2,876	648	13	1,081

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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-August 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,189	5,045,514	4,642,081	68,639	643,955
Year 2015					
January	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
Year 2016					
January	803,496	390,470	353,701	5,845	53,480
February	716,939	352,730	309,115	5,032	50,062
March	775,091	379,524	337,795	5,413	52,359
April	753,775	364,603	333,632	5,304	50,236
May	839,337	409,691	371,145	5,604	52,897
June	1,006,981	501,185	445,296	6,087	54,412
July	1,179,364	576,840	538,874	6,656	56,994
August	1,191,376	573,095	554,337	6,741	57,203
Sept	951,076	454,440	436,438	5,961	54,237
October	775,622	368,496	350,464	5,153	51,510
November	700,757	332,274	308,648	5,332	54,504
December	706,376	342,166	302,636	5,512	56,061
Year 2017					
January	677,545	327,650	287,333	6,139	56,424
February	584,745	280,771	248,451	5,433	50,090
March	700,918	345,125	297,948	6,008	51,837
April	648,063	324,099	268,328	4,883	50,753
May	732,044	371,446	305,026	5,164	50,407
June	870,727	430,843	381,584	5,712	52,588
July	1,090,309	544,954	483,816	6,227	55,312
August	1,045,101	521,659	463,327	6,318	53,797
Year to Date					
2015	6,687,052	3,171,903	3,058,988	46,235	409,926
2016	7,266,358	3,548,139	3,243,895	46,681	427,643
2017	6,349,453	3,146,547	2,735,814	45,885	421,207
Rolling 12 Months Ending in August					
2016	10,595,881	5,121,491	4,761,590	70,539	642,262
2017	9,483,284	4,643,922	4,133,999	67,843	637,519

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	956,923	11,227	284,704	47,946	613,046
Year 2015					
January	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
Year 2016					
January	85,090	1,163	25,628	4,555	53,744
February	78,278	1,068	23,422	4,216	49,573
March	80,136	959	24,327	4,160	50,691
April	76,781	700	22,327	4,001	49,753
May	77,892	864	24,001	3,652	49,374
June	77,871	909	23,951	3,613	49,398
July	81,911	983	25,464	4,134	51,329
August	83,318	956	26,205	4,159	51,998
Sept	77,778	867	23,163	3,748	50,000
October	76,549	702	21,699	3,603	50,546
November	77,442	860	21,756	3,798	51,027
December	83,877	1,194	22,761	4,307	55,614
Year 2017					
January	86,570	1,164	22,966	5,166	57,274
February	77,792	872	20,183	4,382	52,356
March	84,133	841	23,209	4,285	55,797
April	77,370	758	20,709	3,634	52,269
May	77,118	685	19,971	3,678	52,784
June	76,992	685	21,032	3,934	51,342
July	80,867	805	21,929	4,245	53,888
August	78,673	844	22,311	4,052	51,465
Year to Date					
2015	619,091	5,185	189,690	30,557	393,659
2016	641,277	7,603	195,325	32,490	405,859
2017	639,515	6,654	172,310	33,377	427,174
Rolling 12 Months Ending in August					
2016	957,284	10,478	289,007	48,220	609,579
2017	955,161	10,278	261,689	48,833	634,361

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-August 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,113	5,056,741	4,926,785	116,586	1,257,001
Year 2015					
January	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
Year 2016					
January	888,586	391,633	379,329	10,400	107,224
February	795,217	353,798	332,537	9,248	99,635
March	855,227	380,483	362,122	9,572	103,049
April	830,556	365,304	355,959	9,304	99,989
May	917,229	410,556	395,146	9,256	102,271
June	1,084,852	502,095	469,247	9,700	103,810
July	1,261,274	577,823	564,338	10,790	108,323
August	1,274,694	574,051	580,542	10,901	109,201
Sept	1,028,854	455,308	459,601	9,708	104,238
October	852,172	369,198	372,162	8,756	102,055
November	778,199	333,134	330,404	9,130	105,531
December	790,252	343,360	325,397	9,820	111,675
Year 2017					
January	764,115	328,814	310,298	11,305	113,697
February	662,537	281,643	268,634	9,815	102,446
March	785,050	345,965	321,158	10,293	107,634
April	725,434	324,857	289,038	8,517	103,021
May	809,162	372,131	324,997	8,843	103,191
June	947,720	431,528	402,616	9,646	103,930
July	1,171,175	545,759	505,744	10,473	109,200
August	1,123,774	522,503	485,638	10,371	105,262
Year to Date					
2015	7,306,143	3,177,088	3,248,678	76,792	803,585
2016	7,907,635	3,555,742	3,439,220	79,172	833,502
2017	6,988,967	3,153,201	2,908,123	79,262	848,381
Rolling 12 Months Ending in August					
2016	11,553,166	5,131,969	5,050,597	118,759	1,251,841
2017	10,438,445	4,654,200	4,395,688	116,676	1,271,880

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-August 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241
Year 2015					
January	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
Year 2016					
January	28,779	2,572	23,258	2,481	467
February	26,323	2,469	21,261	2,183	410
March	26,918	2,473	21,197	2,724	524
April	27,153	2,585	22,247	1,867	454
May	27,948	2,606	22,797	2,071	473
June	26,392	2,389	21,901	1,729	372
July	27,016	2,395	22,290	1,916	415
August	28,815	2,711	23,770	1,924	410
Sept	26,511	2,506	21,856	1,769	382
October	28,975	2,862	23,249	2,417	447
November	26,381	2,417	21,441	2,091	433
December	28,306	2,521	23,165	2,166	455
Year 2017					
January	23,956	2,224	19,472	1,824	436
February	21,544	2,079	17,540	1,515	410
March	22,843	2,079	18,648	1,671	444
April	21,217	1,968	17,415	1,431	403
May	21,884	2,113	17,923	1,489	360
June	21,851	1,836	18,015	1,588	411
July	22,008	1,789	18,270	1,633	317
August	23,048	2,089	18,874	1,714	372
Year to Date					
2015	185,646	16,884	148,732	17,018	3,012
2016	219,343	20,200	178,722	16,896	3,525
2017	178,351	16,176	146,156	12,866	3,153
Rolling 12 Months Ending in August					
2016	316,227	28,573	257,372	25,128	5,155
2017	288,525	26,481	235,866	21,308	4,870

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,232	5	2,381	968	879
Year 2015					
January	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
Year 2016					
January	400	0	221	98	81
February	406	1	231	90	85
March	597	0	335	133	129
April	471	1	268	100	103
May	289	0	155	71	63
June	161	0	108	30	22
July	242	0	150	50	42
August	207	1	121	50	36
Sept	148	0	85	40	23
October	499	2	264	124	109
November	395	0	214	90	90
December	418	0	230	93	96
Year 2017					
January	243	0	159	46	38
February	206	0	134	40	32
March	224	1	139	49	35
April	237	0	104	97	36
May	173	0	97	46	29
June	255	0	185	45	24
July	219	1	139	39	40
August	137	0	42	48	47
Year to Date					
2015	984	1	401	343	238
2016	2,772	3	1,587	621	561
2017	1,695	3	1,000	411	282
Rolling 12 Months Ending in August					
2016	3,310	3	1,829	793	684
2017	3,155	5	1,793	758	599

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-August 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120
Year 2015					
January	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
Year 2016					
January	29,179	2,573	23,479	2,579	548
February	26,729	2,469	21,492	2,273	494
March	27,515	2,473	21,532	2,858	652
April	27,624	2,586	22,514	1,967	557
May	28,236	2,606	22,952	2,142	536
June	26,553	2,390	22,009	1,759	395
July	27,258	2,395	22,439	1,966	457
August	29,022	2,711	23,891	1,974	446
Sept	26,660	2,506	21,941	1,808	405
October	29,474	2,864	23,513	2,541	556
November	26,776	2,417	21,655	2,182	523
December	28,724	2,521	23,395	2,259	551
Year 2017					
January	24,199	2,224	19,631	1,870	474
February	21,750	2,079	17,674	1,555	442
March	23,066	2,080	18,787	1,720	480
April	21,454	1,968	17,519	1,528	439
May	22,057	2,113	18,020	1,535	389
June	22,106	1,836	18,201	1,634	435
July	22,227	1,790	18,409	1,673	356
August	23,186	2,089	18,916	1,762	419
Year to Date					
2015	186,629	16,886	149,133	17,361	3,250
2016	222,115	20,203	180,309	17,517	4,086
2017	180,046	16,179	147,156	13,277	3,435
Rolling 12 Months Ending in August					
2016	319,538	28,576	259,201	25,921	5,839
2017	291,680	26,486	237,659	22,066	5,469

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8
Year 2015					
January	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
Year 2016					
January	1,341	34	1,123	183	1
February	1,215	27	1,030	157	1
March	1,270	41	1,018	209	1
April	1,370	40	1,133	196	1
May	1,382	44	1,157	182	1
June	1,383	40	1,157	186	0
July	1,404	37	1,163	203	1
August	1,427	42	1,190	195	0
Sept	1,311	43	1,093	175	0
October	1,260	37	1,043	179	1
November	1,294	39	1,069	184	0
December	1,409	38	1,180	190	1
Year 2017					
January	1,437	35	1,207	195	0
February	1,244	19	1,045	180	0
March	1,324	36	1,097	192	0
April	1,289	35	1,058	196	0
May	1,408	36	1,158	213	1
June	1,419	38	1,186	194	1
July	1,421	41	1,171	208	1
August	1,430	47	1,176	206	1
Year to Date					
2015	11,000	301	9,116	1,578	5
2016	10,793	306	8,970	1,511	6
2017	10,971	286	9,097	1,584	4
Rolling 12 Months Ending in August					
2016	16,424	457	13,651	2,308	9
2017	16,245	443	13,483	2,312	6

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

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-August 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167
Year 2015					
January	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
Year 2016					
January	164	0	62	89	13
February	169	0	72	84	13
March	198	0	80	103	15
April	165	0	51	100	14
May	157	0	48	95	14
June	160	0	51	94	16
July	175	0	53	106	16
August	162	0	49	100	14
Sept	151	0	45	94	13
October	142	0	46	86	10
November	161	0	51	96	14
December	170	0	52	103	15
Year 2017					
January	197	0	55	122	20
February	167	0	49	105	12
March	188	0	63	105	19
April	168	0	55	96	18
May	172	0	51	103	18
June	174	0	53	105	16
July	168	0	57	95	17
August	181	0	67	93	22
Year to Date					
2015	1,315	0	432	745	137
2016	1,351	0	465	771	115
2017	1,415	0	448	825	142
Rolling 12 Months Ending in August					
2016	2,021	0	688	1,152	181
2017	2,039	0	641	1,204	194

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174
Year 2015					
January	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
Year 2016					
January	1,505	34	1,185	272	14
February	1,383	27	1,102	241	14
March	1,468	41	1,098	312	16
April	1,536	40	1,184	297	15
May	1,539	44	1,205	277	14
June	1,544	40	1,207	280	16
July	1,579	37	1,216	309	17
August	1,590	42	1,239	294	15
Sept	1,462	43	1,138	269	13
October	1,402	37	1,089	265	11
November	1,455	39	1,120	281	15
December	1,578	38	1,231	293	16
Year 2017					
January	1,634	35	1,262	317	20
February	1,410	19	1,094	286	12
March	1,512	36	1,160	297	19
April	1,457	35	1,112	292	18
May	1,580	36	1,209	317	19
June	1,593	38	1,239	299	17
July	1,589	41	1,228	302	18
August	1,612	47	1,243	299	23
Year to Date					
2015	12,315	301	9,548	2,323	142
2016	12,144	306	9,435	2,282	120
2017	12,387	286	9,546	2,409	146
Rolling 12 Months Ending in August					
2016	18,446	457	14,339	3,460	190
2017	18,284	443	14,124	3,516	200

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569
Year 2015					
January	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
Year 2016					
January	34,287	4,250	13,946	62	16,028
February	32,746	3,992	13,892	58	14,803
March	32,635	3,528	13,931	26	15,150
April	27,119	2,672	10,235	42	14,171
May	29,056	2,739	10,908	19	15,391
June	32,206	3,928	12,661	80	15,537
July	34,444	4,286	14,099	70	15,990
August	34,893	4,290	14,544	120	15,939
Sept	31,815	3,558	13,060	67	15,131
October	28,597	2,676	10,881	37	15,003
November	29,901	2,839	11,531	30	15,500
December	33,919	4,349	13,583	61	15,926
Year 2017					
January	32,399	3,603	12,806	78	15,912
February	30,715	3,162	12,417	66	15,069
March	32,946	4,066	13,687	31	15,161
April	30,033	2,964	12,319	42	14,708
May	31,074	3,236	13,092	58	14,687
June	31,355	3,585	12,562	52	15,156
July	34,193	3,175	14,694	56	16,267
August	34,564	3,601	14,244	57	16,662
Year to Date					
2015	274,435	29,952	116,915	365	127,203
2016	257,387	29,685	104,216	477	123,009
2017	257,278	27,393	105,822	442	123,621
Rolling 12 Months Ending in August					
2016	389,602	43,652	158,688	616	186,646
2017	381,509	40,815	154,876	637	185,181

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	924,785	8,469	17,016	4,321	894,978
Year 2015					
January	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
Year 2016					
January	82,391	864	1,751	471	79,306
February	75,353	893	1,750	412	72,298
March	75,758	871	1,365	274	73,249
April	73,341	710	1,395	344	70,893
May	76,050	659	1,339	271	73,780
June	77,024	563	1,356	375	74,730
July	78,025	689	1,273	363	75,700
August	77,846	709	1,280	423	75,434
Sept	73,401	411	1,426	363	71,201
October	73,927	349	1,084	328	72,167
November	78,622	789	1,415	321	76,098
December	83,046	962	1,583	377	80,124
Year 2017					
January	81,090	807	1,750	503	78,031
February	73,357	846	2,030	413	70,067
March	79,865	742	1,565	293	77,265
April	73,919	667	1,734	286	71,232
May	74,799	772	1,810	286	71,932
June	77,829	733	1,760	308	75,029
July	80,332	980	1,702	339	77,311
August	80,445	813	1,832	348	77,451
Year to Date					
2015	633,139	6,259	12,717	2,478	611,686
2016	615,788	5,958	11,509	2,932	595,389
2017	621,637	6,360	14,182	2,777	598,318
Rolling 12 Months Ending in August					
2016	926,610	9,050	17,992	4,169	895,399
2017	930,634	8,871	19,690	4,165	897,908

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	2	107	-98.0%	0	22	1	84	0	0	NM	NM
Connecticut	0	10	-100.0%	0	0	0	10	0	0	0	0
Maine	1	1	25.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	74	-100.0%	0	0	0	73	0	0	0	NM
New Hampshire	0	22	-99.0%	0	22	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,018	2,994	-33.0%	0	0	2,005	2,976	0	0	13	19
New Jersey	43	63	-32.0%	0	0	43	63	0	0	0	0
New York	10	142	-93.0%	0	0	6	136	0	0	4	6
Pennsylvania	1,965	2,789	-30.0%	0	0	1,956	2,776	0	0	9	13
East North Central	13,221	15,303	-14.0%	8,227	8,967	4,922	6,266	3	2	69	68
Illinois	3,104	3,976	-22.0%	209	222	2,838	3,703	2	NM	55	50
Indiana	3,461	3,609	-4.1%	3,305	3,447	156	161	1	1	0	NM
Michigan	2,090	2,282	-8.4%	2,066	2,256	22	21	0	0	2	NM
Ohio	2,644	3,303	-20.0%	737	918	1,907	2,381	0	0	1	3
Wisconsin	1,921	2,133	-9.9%	1,911	2,124	0	0	0	0	10	9
West North Central	11,841	12,525	-5.5%	11,732	12,398	0	NM	2	5	107	121
Iowa	1,736	1,852	-6.3%	1,677	1,783	0	0	2	3	58	66
Kansas	1,420	1,741	-18.0%	1,420	1,741	0	0	0	0	0	0
Minnesota	1,336	1,353	-1.3%	1,322	1,330	0	0	0	NM	14	23
Missouri	3,832	3,797	0.9%	3,832	3,793	0	NM	0	1	0	NM
Nebraska	1,363	1,391	-2.0%	1,333	1,366	0	0	0	0	30	25
North Dakota	2,033	2,245	-9.4%	2,027	2,239	0	0	0	0	6	NM
South Dakota	120	146	-18.0%	120	146	0	0	0	0	0	0
South Atlantic	9,522	12,096	-21.0%	8,532	10,523	974	1,551	1	2	15	20
Delaware	13	51	-74.0%	0	0	13	51	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,565	2,026	-23.0%	1,544	1,970	17	53	0	0	3	NM
Georgia	1,861	2,314	-20.0%	1,858	2,309	0	0	0	0	3	5
Maryland	386	797	-52.0%	0	0	384	795	0	0	2	2
North Carolina	1,667	2,100	-21.0%	1,656	2,064	8	33	1	1	2	2
South Carolina	810	986	-18.0%	809	985	0	0	0	0	1	2
Virginia	609	792	-23.0%	582	737	24	48	0	NM	3	6
West Virginia	2,610	3,030	-14.0%	2,083	2,458	527	571	0	0	0	0
East South Central	6,314	7,583	-17.0%	6,117	7,238	184	327	0	0	14	18
Alabama	1,687	1,921	-12.0%	1,685	1,919	0	0	0	0	1	NM
Kentucky	2,756	3,297	-16.0%	2,756	3,297	0	0	0	0	0	0
Mississippi	336	529	-37.0%	152	202	184	327	0	0	0	0
Tennessee	1,536	1,836	-16.0%	1,523	1,821	0	0	0	0	13	16
West South Central	12,985	13,287	-2.3%	6,375	6,578	6,597	6,694	0	0	13	15
Arkansas	1,733	1,550	12.0%	1,490	1,296	242	254	0	0	1	1
Louisiana	753	1,023	-26.0%	376	700	377	323	0	0	0	0
Oklahoma	1,220	1,460	-16.0%	1,097	1,313	111	133	0	0	12	14
Texas	9,278	9,253	0.3%	3,412	3,269	5,867	5,984	0	0	0	0
Mountain	9,262	9,125	1.5%	8,124	7,972	1,100	1,091	0	0	38	62
Arizona	1,717	1,768	-2.9%	1,717	1,768	0	0	0	0	0	0
Colorado	1,493	1,608	-7.2%	1,493	1,607	0	NM	0	0	1	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	990	982	0.7%	25	NM	965	960	0	0	0	NM
Nevada	176	242	-27.0%	122	183	55	60	0	0	0	0
New Mexico	1,191	815	46.0%	1,191	815	0	0	0	0	0	0
Utah	1,205	1,216	-0.9%	1,148	1,143	36	NM	0	0	21	48
Wyoming	2,488	2,492	-0.1%	2,429	2,435	45	44	0	0	15	12
Pacific Contiguous	776	746	4.1%	199	209	571	530	0	0	6	6
California	6	6	5.3%	0	0	0	0	0	0	6	6
Oregon	199	209	-4.9%	199	209	0	0	0	0	0	0
Washington	571	531	7.6%	0	0	571	530	0	0	NM	1
Pacific Noncontiguous	106	103	3.2%	NM	19	82	79	4	3	0	NM
Alaska	NM	36	NM	NM	19	15	NM	4	3	0	0
Hawaii	67	67	0.6%	0	0	67	65	0	0	0	NM
U.S. Total	66,047	73,868	-11.0%	49,326	53,927	16,437	19,600	9	12	275	330

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	718	836	-14.0%	76	119	636	712	0	0	NM	5
Connecticut	70	57	23.0%	0	0	70	57	0	0	0	0
Maine	13	10	24.0%	0	0	7	8	0	0	NM	2
Massachusetts	559	650	-14.0%	0	0	559	648	0	0	0	2
New Hampshire	76	119	-36.0%	76	119	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	15,854	18,692	-15.0%	0	0	15,743	18,541	0	0	111	150
New Jersey	335	385	-13.0%	0	0	335	385	0	0	0	0
New York	247	601	-59.0%	0	0	209	552	0	0	38	49
Pennsylvania	15,272	17,706	-14.0%	0	0	15,199	17,605	0	0	73	102
East North Central	97,550	96,551	1.0%	59,838	58,198	37,161	37,801	18	19	533	533
Illinois	23,167	24,313	-4.7%	1,515	1,382	21,217	22,555	13	8	422	368
Indiana	23,878	24,376	-2.0%	22,988	23,012	885	1,355	5	7	0	1
Michigan	16,928	15,718	7.7%	16,729	15,507	176	162	0	4	23	45
Ohio	19,931	19,492	2.3%	5,040	5,727	14,883	13,729	0	0	8	36
Wisconsin	13,647	12,652	7.9%	13,567	12,569	0	0	0	0	80	83
West North Central	80,216	77,659	3.3%	79,275	76,719	0	7	25	35	915	898
Iowa	10,915	10,004	9.1%	10,436	9,502	0	0	16	24	462	477
Kansas	8,848	9,737	-9.1%	8,848	9,737	0	0	0	0	0	0
Minnesota	9,181	8,947	2.6%	9,006	8,772	0	0	4	4	171	171
Missouri	27,195	24,892	9.3%	27,190	24,869	0	7	5	7	0	9
Nebraska	8,719	8,643	0.9%	8,480	8,445	0	0	0	0	239	197
North Dakota	14,446	14,425	0.1%	14,403	14,381	0	0	0	0	43	43
South Dakota	912	1,013	-10.0%	912	1,013	0	0	0	0	0	0
South Atlantic	64,637	71,248	-9.3%	58,145	62,657	6,364	8,382	12	14	116	195
Delaware	114	209	-46.0%	0	0	114	209	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11,882	11,488	3.4%	11,831	11,243	27	220	0	0	24	25
Georgia	11,778	13,381	-12.0%	11,752	13,347	0	0	0	0	27	34
Maryland	2,411	4,124	-42.0%	0	0	2,397	4,110	0	0	14	14
North Carolina	9,842	10,252	-4.0%	9,769	10,121	44	100	7	8	21	23
South Carolina	5,495	6,290	-13.0%	5,490	6,257	0	0	0	0	5	33
Virginia	4,002	5,337	-25.0%	3,816	5,108	156	184	5	6	25	39
West Virginia	19,113	20,167	-5.2%	15,488	16,581	3,626	3,560	0	0	0	27
East South Central	44,002	46,577	-5.5%	42,072	44,384	1,823	2,051	0	0	107	142
Alabama	11,388	11,292	0.8%	11,377	11,277	0	0	0	0	11	15
Kentucky	20,094	21,734	-7.5%	20,094	21,734	0	0	0	0	0	0
Mississippi	2,746	3,071	-11.0%	923	1,020	1,823	2,051	0	0	0	0
Tennessee	9,774	10,480	-6.7%	9,678	10,353	0	0	0	0	96	127
West South Central	85,092	75,256	13.0%	39,970	36,852	45,015	38,284	0	0	107	121
Arkansas	10,236	8,397	22.0%	9,173	6,813	1,055	1,576	0	0	8	9
Louisiana	5,963	6,037	-1.2%	3,632	4,184	2,331	1,854	0	0	0	0
Oklahoma	7,057	7,291	-3.2%	6,303	6,425	654	754	0	0	100	112
Texas	61,836	53,531	16.0%	20,862	19,431	40,974	34,100	0	0	0	0
Mountain	60,589	58,341	3.9%	53,741	51,544	6,668	6,503	0	0	180	294
Arizona	11,087	10,608	4.5%	11,087	10,608	0	0	0	0	0	0
Colorado	11,222	10,869	3.2%	11,217	10,856	0	10	0	0	4	3
Idaho	8	9	-12.0%	0	0	0	0	0	0	8	9
Montana	5,851	5,800	0.9%	186	132	5,663	5,664	0	0	2	NM
Nevada	838	900	-6.9%	456	560	382	340	0	0	0	0
New Mexico	7,428	6,543	14.0%	7,428	6,543	0	0	0	0	0	0
Utah	7,891	7,673	2.8%	7,552	7,297	271	199	0	0	67	176
Wyoming	16,264	15,938	2.0%	15,814	15,548	352	289	0	0	98	101
Pacific Contiguous	2,176	1,977	10.0%	694	604	1,433	1,318	0	0	49	54
California	44	49	-9.9%	0	0	0	0	0	0	44	49
Oregon	694	604	15.0%	694	604	0	0	0	0	0	0
Washington	1,438	1,324	8.6%	0	0	1,433	1,318	0	0	5	6
Pacific Noncontiguous	719	796	-9.6%	NM	167	554	593	29	28	0	9
Alaska	258	308	-16.0%	NM	167	93	114	29	28	0	0
Hawaii	461	488	-5.5%	0	0	461	479	0	0	0	9
U.S. Total	451,552	447,933	0.8%	333,948	331,244	115,396	114,193	84	95	2,124	2,400

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	46	145	-69.0%	7	14	34	120	4	5	1	6
Connecticut	NM	58	NM	1	NM	NM	54	NM	NM	0	NM
Maine	4	25	-85.0%	0	NM	3	21	0	NM	1	3
Massachusetts	26	50	-48.0%	2	4	21	44	3	NM	0	NM
New Hampshire	4	8	-51.0%	4	7	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	0	NM	NM	NM	0	NM	0	0
Vermont	0	NM	NM	0	NM	0	0	0	NM	0	0
Middle Atlantic	96	298	-68.0%	13	162	74	127	6	NM	3	4
New Jersey	6	13	-52.0%	0	NM	6	11	0	NM	0	NM
New York	46	217	-79.0%	13	161	27	51	NM	NM	1	2
Pennsylvania	44	68	-35.0%	0	NM	41	65	1	NM	2	NM
East North Central	84	91	-8.0%	60	54	21	36	1	NM	2	1
Illinois	5	10	-47.0%	1	NM	4	9	0	NM	0	0
Indiana	13	15	-7.4%	12	14	0	NM	0	NM	2	1
Michigan	34	21	65.0%	33	20	0	0	0	0	NM	NM
Ohio	26	36	-29.0%	8	10	17	26	0	NM	0	NM
Wisconsin	6	10	-44.0%	NM	9	0	1	0	NM	NM	0
West North Central	35	37	-6.7%	34	37	1	NM	0	NM	0	NM
Iowa	5	9	-40.0%	5	9	NM	NM	0	NM	0	NM
Kansas	9	NM	NM	9	NM	0	0	0	0	0	0
Minnesota	5	5	2.7%	NM	5	1	NM	0	NM	0	NM
Missouri	7	12	-45.0%	7	12	0	NM	0	NM	0	0
Nebraska	NM	3	NM	NM	3	0	0	0	0	0	0
North Dakota	5	3	57.0%	5	3	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	284	528	-46.0%	226	435	44	84	8	NM	NM	NM
Delaware	NM	9	NM	0	NM	NM	7	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	108	290	-63.0%	106	286	NM	NM	0	0	NM	NM
Georgia	NM	NM	NM	NM	9	NM	NM	1	NM	NM	NM
Maryland	28	46	-40.0%	NM	NM	28	44	0	NM	0	0
North Carolina	28	28	-1.0%	25	25	NM	NM	0	NM	NM	NM
South Carolina	21	13	64.0%	20	11	0	NM	NM	NM	1	NM
Virginia	64	108	-41.0%	49	85	7	23	8	NM	NM	NM
West Virginia	21	21	2.4%	20	16	1	5	0	0	0	0
East South Central	46	46	0.0%	44	42	NM	NM	0	NM	NM	NM
Alabama	NM	NM	NM	4	2	NM	NM	0	0	NM	NM
Kentucky	13	15	-11.0%	13	15	0	0	0	0	0	0
Mississippi	2	2	-20.0%	NM	2	0	0	0	0	0	0
Tennessee	25	23	9.3%	25	22	0	NM	0	NM	0	NM
West South Central	22	19	18.0%	NM	11	7	8	0	NM	1	NM
Arkansas	NM	NM	NM	NM	2	1	1	0	0	NM	NM
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	NM	2	NM	NM	2	0	0	0	NM	0	NM
Texas	16	NM	NM	9	6	6	7	0	NM	0	NM
Mountain	28	27	1.5%	25	23	2	4	0	NM	0	NM
Arizona	6	4	63.0%	6	4	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	NM	3	NM	NM	NM	1	3	0	0	0	0
Nevada	3	2	42.0%	3	1	1	1	0	0	0	0
New Mexico	7	6	6.9%	7	6	0	0	0	0	0	NM
Utah	4	5	-1.9%	4	4	1	NM	0	0	0	NM
Wyoming	4	6	-30.0%	4	6	0	0	0	0	0	NM
Pacific Contiguous	10	13	-20.0%	8	7	1	NM	0	NM	2	3
California	7	9	-19.0%	7	6	0	NM	0	NM	NM	2
Oregon	1	1	9.3%	1	1	0	0	0	NM	0	0
Washington	2	3	-32.0%	NM	NM	0	2	0	NM	2	1
Pacific Noncontiguous	1,002	989	1.4%	840	845	139	117	0	3	23	25
Alaska	131	115	13.0%	123	109	0	0	NM	NM	8	6
Hawaii	872	874	-0.2%	717	736	139	117	0	2	15	19
U.S. Total	1,654	2,195	-25.0%	1,271	1,630	324	498	19	15	39	52

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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 August 2017 and August 2016 (Thousand Barrels)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	570	709	-20.0%	62	87	438	569	49	34	21	20
Connecticut	167	169	-1.1%	7	7	157	147	NM	NM	1	NM
Maine	88	206	-57.0%	0	NM	66	191	4	NM	18	13
Massachusetts	252	259	-2.8%	14	27	207	219	29	13	2	NM
New Hampshire	38	45	-15.0%	30	38	NM	NM	7	6	0	NM
Rhode Island	NM	26	NM	5	12	NM	11	6	NM	0	0
Vermont	6	NM	NM	6	NM	0	0	0	NM	0	0
Middle Atlantic	1,031	1,480	-30.0%	243	522	709	890	40	25	38	43
New Jersey	121	116	3.7%	0	NM	120	109	0	NM	NM	3
New York	579	960	-40.0%	243	518	281	398	31	20	24	23
Pennsylvania	331	404	-18.0%	0	NM	308	383	9	5	14	17
East North Central	604	742	-19.0%	390	458	195	264	5	4	14	16
Illinois	60	95	-37.0%	7	8	53	86	0	1	0	0
Indiana	136	149	-8.7%	126	139	0	NM	0	NM	9	10
Michigan	137	179	-24.0%	130	174	0	0	3	2	NM	3
Ohio	227	268	-15.0%	83	91	142	174	1	NM	1	3
Wisconsin	NM	50	NM	NM	46	0	4	0	NM	NM	1
West North Central	375	325	16.0%	367	315	6	NM	2	3	1	1
Iowa	78	73	7.0%	77	72	1	1	0	NM	0	NM
Kansas	91	61	48.0%	91	61	0	0	0	0	0	0
Minnesota	43	38	12.0%	NM	31	4	NM	1	NM	1	1
Missouri	64	99	-35.0%	64	99	0	NM	0	NM	0	0
Nebraska	NM	12	NM	NM	12	0	0	0	0	0	0
North Dakota	54	37	47.0%	54	36	0	0	0	NM	0	1
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	2,342	3,162	-26.0%	1,911	2,410	348	681	39	NM	44	65
Delaware	33	90	-64.0%	0	NM	33	86	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	672	1,086	-38.0%	658	1,055	8	NM	0	0	NM	11
Georgia	141	168	-16.0%	101	109	NM	34	3	2	NM	23
Maryland	157	299	-48.0%	2	13	152	281	1	NM	2	2
North Carolina	380	367	3.4%	348	298	NM	62	1	NM	NM	7
South Carolina	178	168	5.5%	165	147	2	NM	NM	NM	11	19
Virginia	634	847	-25.0%	491	656	106	186	35	NM	NM	3
West Virginia	148	137	8.2%	146	128	2	9	0	0	0	0
East South Central	351	403	-13.0%	331	371	NM	12	0	NM	NM	20
Alabama	NM	68	NM	34	38	NM	11	0	0	NM	19
Kentucky	131	145	-9.9%	131	145	0	0	0	0	0	0
Mississippi	17	23	-26.0%	16	23	0	0	0	0	1	1
Tennessee	152	167	-8.8%	151	165	0	NM	0	NM	1	1
West South Central	203	201	1.3%	112	131	87	63	1	NM	4	6
Arkansas	59	49	20.0%	NM	36	37	11	0	0	2	2
Louisiana	NM	22	NM	NM	19	0	3	0	0	0	0
Oklahoma	NM	21	NM	NM	19	0	0	0	NM	1	2
Texas	99	108	-8.1%	48	57	49	48	1	NM	2	NM
Mountain	290	291	-0.1%	259	256	31	34	0	NM	0	NM
Arizona	73	69	5.8%	73	69	0	0	0	NM	0	0
Colorado	NM	12	NM	NM	12	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	24	30	-20.0%	NM	NM	24	30	0	0	0	0
Nevada	15	18	-17.0%	10	14	5	4	0	0	0	0
New Mexico	58	69	-16.0%	58	69	0	0	0	0	0	NM
Utah	47	34	39.0%	45	33	2	NM	0	0	0	NM
Wyoming	59	58	0.7%	59	58	0	0	0	0	0	NM
Pacific Contiguous	100	133	-25.0%	58	48	21	23	1	NM	21	61
California	60	105	-42.0%	44	41	7	10	1	NM	9	53
Oregon	10	5	97.0%	10	5	0	0	0	NM	0	0
Washington	30	23	29.0%	NM	NM	14	12	NM	NM	11	8
Pacific Noncontiguous	7,662	7,222	6.1%	6,605	6,271	872	803	10	13	175	134
Alaska	1,075	855	26.0%	1,020	801	0	0	NM	5	50	48
Hawaii	6,587	6,367	3.5%	5,585	5,470	872	803	5	8	125	86
U.S. Total	13,529	14,668	-7.8%	10,339	10,869	2,711	3,345	146	88	333	367

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	6	NM	0	0	0	0	0	0	NM	6
New Jersey	1	NM	NM	0	0	0	0	0	0	1	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	81	94	-14.0%	50	43	27	47	0	0	3	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	48	40	20.0%	45	37	0	0	0	0	3	4
Ohio	27	47	-43.0%	0	0	27	47	0	0	0	0
Wisconsin	5	6	-19.0%	5	6	0	0	0	0	0	0
West North Central	0	NM	NM	0	0	0	0	0	0	0	NM
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	38	86	-56.0%	35	83	0	0	0	0	NM	3
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	83	-58.0%	35	83	0	0	0	0	0	0
Georgia	NM	3	NM	0	0	0	0	0	0	NM	3
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	46	-100.0%	0	46	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	46	-100.0%	0	46	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	148	171	-13.0%	141	164	0	0	0	0	7	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	145	168	-14.0%	141	164	0	0	0	0	4	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	3	-11.0%	0	0	0	0	0	0	3	3
Mountain	16	15	2.1%	0	0	16	15	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	16	15	2.1%	0	0	16	15	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	286	422	-32.0%	227	337	43	62	0	0	16	23

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	30	43	-30.0%	0	0	0	0	0	0	30	43
New Jersey	5	NM	NM	0	0	0	0	0	0	5	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	32	NM	0	0	0	0	0	0	NM	32
East North Central	566	698	-19.0%	333	384	214	279	0	0	19	35
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	327	230	42.0%	308	201	0	1	0	0	19	27
Ohio	214	279	-24.0%	0	0	214	278	0	0	0	2
Wisconsin	25	30	-16.0%	25	23	0	0	0	0	0	7
West North Central	11	19	-44.0%	0	0	0	0	1	1	9	18
Iowa	11	19	-44.0%	0	0	0	0	1	1	9	18
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	226	596	-62.0%	208	578	0	0	0	0	19	18
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	208	578	-64.0%	208	578	0	0	0	0	0	0
Georgia	19	18	1.1%	0	0	0	0	0	0	19	18
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	311	-47.0%	166	311	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	166	311	-47.0%	166	311	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	1,233	1,231	0.2%	1,181	1,175	0	0	0	0	51	56
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,206	1,200	0.5%	1,181	1,175	0	0	0	0	24	25
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	27	31	-13.0%	0	0	0	0	0	0	27	31
Mountain	111	107	3.5%	0	0	111	107	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	111	107	3.5%	0	0	111	107	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	2,342	3,004	-22.0%	1,888	2,447	324	386	1	1	128	170

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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, August 2017 and August 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	40,405	49,134	-18.0%	NM	843	38,368	46,415	742	933	831	942
Connecticut	11,368	12,999	-13.0%	35	12	10,656	12,095	249	400	429	493
Maine	1,817	3,878	-53.0%	0	0	NM	3,558	36	NM	213	291
Massachusetts	19,087	21,881	-13.0%	NM	715	18,155	20,609	382	413	177	144
New Hampshire	3,485	4,619	-25.0%	54	114	3,414	4,468	5	NM	12	NM
Rhode Island	4,645	5,754	-19.0%	0	0	4,574	5,686	71	NM	0	0
Vermont	2	NM	NM	1	3	0	0	0	NM	0	0
Middle Atlantic	110,351	161,274	-32.0%	10,495	17,371	97,755	141,705	982	1,039	1,119	1,159
New Jersey	20,066	40,507	-50.0%	111	NM	19,483	39,907	156	179	316	311
New York	44,280	63,101	-30.0%	10,381	17,240	33,021	44,915	713	732	164	214
Pennsylvania	46,005	57,665	-20.0%	3	NM	45,251	56,883	113	NM	638	634
East North Central	72,344	105,812	-32.0%	33,084	52,162	35,787	50,946	1,062	1,039	2,411	1,666
Illinois	8,549	20,694	-59.0%	NM	2,768	7,130	17,286	345	294	474	346
Indiana	12,268	16,178	-24.0%	9,015	12,974	2,079	2,746	104	119	1,070	340
Michigan	19,839	30,834	-36.0%	7,258	15,951	11,555	13,688	318	398	NM	797
Ohio	19,100	23,107	-17.0%	4,729	7,381	14,050	15,529	262	NM	59	42
Wisconsin	12,588	14,999	-16.0%	11,481	13,088	972	1,697	34	NM	NM	142
West North Central	21,162	27,582	-23.0%	18,549	22,773	1,735	3,998	249	NM	630	465
Iowa	4,456	3,918	14.0%	3,861	3,624	NM	NM	60	NM	535	NM
Kansas	2,893	2,933	-1.4%	2,865	2,847	0	0	0	0	28	87
Minnesota	7,468	10,430	-28.0%	6,575	8,106	NM	2,062	78	NM	30	NM
Missouri	3,409	6,790	-50.0%	2,316	4,709	NM	1,935	110	109	33	NM
Nebraska	1,060	1,133	-6.4%	1,060	1,119	0	0	0	NM	0	13
North Dakota	886	1,239	-28.0%	882	1,228	0	0	0	0	4	NM
South Dakota	989	1,139	-13.0%	989	1,139	0	0	0	0	0	0
South Atlantic	254,880	265,488	-4.0%	205,620	206,914	45,571	55,135	696	755	2,993	2,683
Delaware	4,987	8,171	-39.0%	26	NM	3,842	7,001	0	0	1,118	1,082
District of Columbia	53	NM	NM	0	0	0	0	53	NM	0	0
Florida	126,602	121,135	4.5%	118,717	109,890	7,120	10,426	9	NM	756	790
Georgia	40,567	41,516	-2.3%	29,308	31,689	10,872	9,561	0	0	386	265
Maryland	5,217	10,790	-52.0%	0	0	4,574	10,097	613	645	30	49
North Carolina	26,919	30,186	-11.0%	22,660	24,958	4,197	5,135	9	7	53	87
South Carolina	12,929	14,634	-12.0%	11,193	12,064	1,653	2,519	0	NM	84	46
Virginia	36,049	38,157	-5.5%	23,618	27,873	12,108	10,067	12	NM	311	211
West Virginia	1,558	835	87.0%	98	353	1,205	329	0	0	255	153
East South Central	89,728	100,395	-11.0%	58,469	64,224	29,936	34,890	77	NM	1,246	1,148
Alabama	42,030	43,875	-4.2%	14,260	12,091	27,130	31,183	0	0	641	601
Kentucky	5,395	7,750	-30.0%	4,949	6,357	291	1,240	0	0	155	152
Mississippi	35,265	38,072	-7.4%	32,593	35,387	2,497	2,467	0	NM	175	213
Tennessee	7,038	10,698	-34.0%	6,667	10,389	18	0	77	NM	275	181
West South Central	263,740	281,949	-6.5%	86,958	99,702	138,337	139,276	688	735	37,757	42,235
Arkansas	11,967	15,977	-25.0%	4,427	6,234	7,414	9,622	0	NM	125	120
Louisiana	45,032	49,509	-9.0%	26,871	29,303	2,321	1,995	107	NM	15,733	18,065
Oklahoma	28,378	29,621	-4.2%	16,962	21,183	11,241	8,344	0	NM	176	80
Texas	178,363	186,842	-4.5%	38,698	42,982	117,361	119,315	581	573	21,724	23,971
Mountain	83,738	88,214	-5.1%	64,168	62,693	18,107	24,296	414	375	1,048	849
Arizona	31,198	36,170	-14.0%	20,255	18,951	10,812	17,106	131	112	0	0
Colorado	10,983	9,892	11.0%	9,090	8,325	1,872	1,545	0	0	22	NM
Idaho	3,354	3,692	-9.2%	2,014	2,400	1,250	1,254	35	0	NM	NM
Montana	758	1,051	-28.0%	553	944	205	NM	0	0	0	0
Nevada	22,544	21,889	3.0%	20,703	20,163	1,444	1,428	58	66	339	232
New Mexico	7,786	8,514	-8.5%	5,408	5,779	2,267	2,616	109	117	3	1
Utah	6,591	6,459	2.0%	5,891	5,783	254	238	81	80	364	358
Wyoming	523	546	-4.2%	NM	NM	3	NM	0	0	NM	198
Pacific Contiguous	105,992	109,237	-3.0%	41,161	44,212	57,730	57,675	1,408	1,382	5,693	5,968
California	81,574	83,065	-1.8%	27,701	28,809	46,910	47,057	1,358	1,316	5,606	5,883
Oregon	12,428	14,254	-13.0%	5,545	8,073	6,799	6,076	NM	NM	NM	49
Washington	11,990	11,918	0.6%	7,915	7,331	4,022	4,542	0	NM	NM	36
Pacific Noncontiguous	2,761	2,292	20.0%	2,691	2,200	0	0	0	3	70	NM
Alaska	2,761	2,292	20.0%	2,691	2,200	0	0	0	3	70	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,045,101	1,191,376	-12.0%	521,659	573,095	463,327	554,337	6,318	6,741	53,797	57,203

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	262,043	285,617	-8.3%	2,439	2,479	248,155	270,773	5,193	6,236	6,257	6,129
Connecticut	75,274	89,412	-16.0%	255	24	69,488	83,366	2,088	2,684	3,444	3,339
Maine	12,004	18,805	-36.0%	0	0	10,376	16,813	226	NM	1,402	1,787
Massachusetts	126,384	120,605	4.8%	NM	2,030	120,763	114,901	2,424	2,762	1,317	911
New Hampshire	17,881	22,542	-21.0%	295	418	17,409	21,874	82	NM	94	NM
Rhode Island	30,486	34,246	-11.0%	0	0	30,119	33,819	367	427	0	0
Vermont	14	NM	NM	9	6	0	0	6	NM	0	0
Middle Atlantic	709,563	892,596	-21.0%	69,365	86,671	625,454	790,562	6,650	7,299	8,094	8,064
New Jersey	151,078	222,464	-32.0%	767	NM	146,902	218,601	1,102	1,196	2,307	2,103
New York	276,723	333,541	-17.0%	68,560	86,045	202,066	240,670	4,596	5,275	1,501	1,551
Pennsylvania	281,762	336,590	-16.0%	39	NM	276,486	331,292	952	828	4,285	4,409
East North Central	482,230	629,259	-23.0%	209,970	287,976	245,870	321,126	7,568	7,112	18,823	13,045
Illinois	67,926	107,085	-37.0%	NM	10,570	57,501	92,016	2,437	2,188	3,470	2,312
Indiana	88,983	107,708	-17.0%	67,362	84,110	13,082	20,211	758	776	7,780	2,611
Michigan	132,057	174,139	-24.0%	42,761	68,236	81,235	96,601	2,267	2,686	5,794	6,616
Ohio	126,346	147,962	-15.0%	35,873	41,242	88,011	105,519	1,856	970	606	231
Wisconsin	66,919	92,365	-28.0%	59,457	83,817	6,040	6,780	250	492	1,171	1,275
West North Central	115,170	141,385	-19.0%	98,188	116,006	11,214	19,560	2,057	2,558	3,711	3,262
Iowa	19,730	18,822	4.8%	16,964	16,748	NM	NM	422	464	2,343	1,608
Kansas	15,632	14,537	7.5%	15,322	14,040	0	0	0	0	310	497
Minnesota	40,446	53,922	-25.0%	34,052	42,614	4,739	9,275	963	1,269	692	764
Missouri	24,184	37,177	-35.0%	16,696	25,861	6,473	10,282	669	821	346	213
Nebraska	6,095	4,831	26.0%	6,091	4,728	0	0	4	NM	0	98
North Dakota	3,804	6,337	-40.0%	3,784	6,256	0	0	0	0	20	82
South Dakota	5,278	5,760	-8.4%	5,278	5,760	0	0	0	0	0	0
South Atlantic	1,622,636	1,692,287	-4.1%	1,318,729	1,348,640	276,539	319,342	5,044	5,034	22,325	19,272
Delaware	33,685	45,353	-26.0%	95	NM	25,837	37,155	0	0	7,753	7,843
District of Columbia	472	421	12.0%	0	0	0	0	472	421	0	0
Florida	795,046	825,275	-3.7%	745,020	744,209	44,312	74,915	96	NM	5,618	5,963
Georgia	251,640	273,053	-7.8%	184,392	206,534	64,164	64,415	0	0	3,084	2,104
Maryland	35,573	42,147	-16.0%	0	0	30,900	37,510	4,342	4,302	331	336
North Carolina	186,087	206,016	-9.7%	158,890	178,811	26,785	26,510	50	47	361	647
South Carolina	87,461	86,502	1.1%	75,326	69,741	11,229	16,400	2	NM	904	333
Virginia	225,769	206,166	9.5%	153,981	147,814	69,159	56,709	82	NM	2,547	1,596
West Virginia	6,903	7,354	-6.1%	1,025	1,176	4,152	5,728	0	0	1,727	449
East South Central	576,853	651,703	-11.0%	387,110	428,670	179,798	213,207	702	898	9,243	8,928
Alabama	259,975	284,536	-8.6%	95,974	89,202	159,304	190,223	0	0	4,697	5,112
Kentucky	36,661	48,225	-24.0%	33,305	42,695	2,121	4,397	0	0	1,234	1,133
Mississippi	229,027	256,367	-11.0%	209,267	236,169	18,284	18,588	15	NM	1,461	1,578
Tennessee	51,190	62,575	-18.0%	48,564	60,604	89	0	687	866	1,850	1,105
West South Central	1,596,128	1,846,067	-14.0%	495,299	642,834	794,415	880,576	5,001	5,196	301,413	317,461
Arkansas	78,041	96,970	-20.0%	23,039	40,599	53,927	55,212	1	NM	1,074	1,142
Louisiana	309,531	374,650	-17.0%	163,124	202,918	19,311	33,643	928	1,129	126,168	136,960
Oklahoma	157,316	193,619	-19.0%	100,133	136,954	56,178	55,944	0	NM	1,005	661
Texas	1,051,241	1,180,828	-11.0%	209,004	262,362	664,999	735,777	4,073	3,990	173,165	178,699
Mountain	457,718	527,126	-13.0%	350,909	397,086	95,714	119,981	3,036	2,644	8,060	7,415
Arizona	148,836	185,234	-20.0%	100,080	112,260	47,789	72,178	968	797	0	0
Colorado	64,980	68,192	-4.7%	52,997	56,445	11,802	11,579	0	0	181	169
Idaho	17,548	17,549	0.0%	10,322	11,122	6,374	5,871	293	0	NM	556
Montana	3,606	5,397	-33.0%	2,966	4,873	620	NM	0	0	20	0
Nevada	133,455	145,240	-8.1%	121,074	132,900	10,341	10,234	396	449	1,644	1,657
New Mexico	52,714	56,468	-6.6%	34,473	37,232	17,425	18,403	802	825	14	NM
Utah	33,016	45,291	-27.0%	27,895	40,833	1,351	1,187	577	574	3,193	2,697
Wyoming	3,564	3,754	-5.1%	1,102	1,421	13	NM	0	0	2,448	2,327
Pacific Contiguous	514,740	584,603	-12.0%	202,759	222,743	258,656	308,768	10,609	9,695	42,715	43,397
California	406,826	462,924	-12.0%	144,232	159,461	210,423	251,526	10,216	9,217	41,954	42,720
Oregon	52,720	66,038	-20.0%	25,951	30,399	26,107	34,913	NM	NM	NM	314
Washington	55,194	55,640	-0.8%	32,575	32,882	22,126	22,329	44	66	NM	363
Pacific Noncontiguous	12,371	15,716	-21.0%	11,780	15,035	0	0	25	NM	567	NM
Alaska	12,371	15,716	-21.0%	11,780	15,035	0	0	25	NM	567	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,349,453	7,266,358	-13.0%	3,146,547	3,548,139	2,735,814	3,243,895	45,885	46,681	421,207	427,643

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	922	1,140	-19.0%	0	0	852	1,066	70	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	84	NM	0	0	NM	84	0	0	0	0
Massachusetts	322	399	-19.0%	0	0	322	399	0	0	0	0
New Hampshire	129	191	-33.0%	0	0	NM	117	70	NM	0	0
Rhode Island	328	371	-12.0%	0	0	328	371	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,700	5,476	-14.0%	0	0	4,458	5,261	NM	NM	132	146
New Jersey	794	913	-13.0%	0	0	761	883	NM	NM	0	0
New York	1,207	1,666	-28.0%	0	0	1,207	1,666	0	0	0	0
Pennsylvania	2,699	2,897	-6.8%	0	0	2,490	2,711	NM	NM	132	146
East North Central	5,459	7,029	-22.0%	685	835	4,680	6,111	30	NM	NM	NM
Illinois	1,071	1,498	-28.0%	33	NM	1,038	1,454	0	0	0	0
Indiana	760	909	-16.0%	636	769	104	117	0	0	NM	NM
Michigan	1,750	2,140	-18.0%	0	0	1,750	2,140	0	0	0	0
Ohio	889	1,215	-27.0%	0	0	889	1,215	0	0	0	0
Wisconsin	989	1,267	-22.0%	NM	NM	899	1,185	30	NM	44	NM
West North Central	987	1,238	-20.0%	312	355	675	883	0	0	0	0
Iowa	202	301	-33.0%	0	0	202	301	0	0	0	0
Kansas	NM	158	NM	0	0	NM	158	0	0	0	0
Minnesota	315	393	-20.0%	NM	90	247	303	0	0	0	0
Missouri	NM	224	NM	NM	102	NM	122	0	0	0	0
Nebraska	168	163	3.2%	168	163	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	3,825	4,873	-22.0%	394	497	3,143	3,972	NM	204	NM	200
Delaware	NM	161	NM	0	0	NM	147	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	602	656	-8.3%	114	142	488	511	0	NM	0	NM
Georgia	346	465	-26.0%	0	0	330	422	0	0	16	NM
Maryland	NM	239	NM	0	0	NM	173	NM	NM	0	0
North Carolina	894	1,176	-24.0%	0	0	862	1,062	NM	NM	0	0
South Carolina	446	527	-15.0%	275	346	NM	NM	0	0	NM	141
Virginia	1,203	1,635	-26.0%	5	NM	1,175	1,602	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	442	557	-21.0%	169	220	273	337	0	0	0	0
Alabama	NM	110	NM	0	0	NM	110	0	0	0	0
Kentucky	183	237	-23.0%	169	220	14	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	183	NM	0	0	NM	183	0	0	0	0
West South Central	1,315	1,898	-31.0%	0	0	1,272	1,838	43	NM	0	0
Arkansas	NM	180	NM	0	0	NM	180	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,140	1,683	-32.0%	0	0	1,097	1,623	43	NM	0	0
Mountain	448	556	-19.0%	NM	NM	397	478	29	NM	0	0
Arizona	NM	105	NM	0	0	NM	105	0	0	0	0
Colorado	NM	117	NM	0	0	NM	117	0	0	0	0
Idaho	NM	96	NM	NM	NM	NM	NM	19	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	60	NM	0	0	NM	60	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	178	NM	0	0	NM	147	10	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,876	5,945	-18.0%	507	774	3,124	3,825	1,245	1,346	0	0
California	4,089	4,849	-16.0%	126	263	2,755	3,280	1,208	1,305	0	0
Oregon	427	598	-29.0%	NM	144	284	413	NM	NM	0	0
Washington	360	498	-28.0%	274	366	NM	132	0	0	0	0
Pacific Noncontiguous	74	NM	NM	0	0	0	0	74	NM	0	0
Alaska	74	NM	NM	0	0	0	0	74	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	23,048	28,815	-20.0%	2,089	2,711	18,874	23,770	1,714	1,924	372	410

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	7,102	8,516	-17.0%	0	0	6,694	7,971	408	544	0	0
Connecticut	NM	351	NM	0	0	NM	351	0	0	0	0
Maine	NM	624	NM	0	0	NM	624	0	0	0	0
Massachusetts	2,504	2,982	-16.0%	0	0	2,504	2,982	0	0	0	0
New Hampshire	827	1,378	-40.0%	0	0	NM	834	408	544	0	0
Rhode Island	2,728	2,827	-3.5%	0	0	2,728	2,827	0	0	0	0
Vermont	NM	353	NM	0	0	NM	353	0	0	0	0
Middle Atlantic	35,362	41,252	-14.0%	0	0	33,538	39,381	NM	750	1,181	1,122
New Jersey	5,843	6,913	-15.0%	0	0	5,615	6,625	NM	288	0	0
New York	10,042	12,451	-19.0%	0	0	10,042	12,451	0	0	0	0
Pennsylvania	19,477	21,889	-11.0%	0	0	17,881	20,305	NM	461	1,181	1,122
East North Central	42,830	52,918	-19.0%	4,890	6,241	37,100	45,925	280	198	NM	555
Illinois	8,686	11,196	-22.0%	283	328	8,404	10,868	0	0	0	0
Indiana	5,471	6,881	-20.0%	4,488	5,767	777	878	0	0	NM	236
Michigan	13,753	16,011	-14.0%	0	0	13,753	16,011	0	0	0	0
Ohio	7,282	9,133	-20.0%	0	0	7,282	9,133	0	0	0	0
Wisconsin	7,638	9,698	-21.0%	NM	NM	6,885	9,035	280	198	354	319
West North Central	7,079	9,217	-23.0%	2,362	2,567	4,717	6,650	0	0	0	0
Iowa	1,045	2,274	-54.0%	0	0	1,045	2,274	0	0	0	0
Kansas	997	1,188	-16.0%	0	0	997	1,188	0	0	0	0
Minnesota	2,450	2,911	-16.0%	NM	627	1,916	2,284	0	0	0	0
Missouri	1,346	1,587	-15.0%	NM	684	NM	903	0	0	0	0
Nebraska	1,241	1,256	-1.2%	1,241	1,256	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	30,238	37,163	-19.0%	3,280	3,744	24,421	29,643	NM	1,929	1,412	1,848
Delaware	1,047	1,245	-16.0%	0	0	921	1,097	0	0	NM	148
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,790	4,971	-3.6%	1,091	1,145	3,699	3,800	0	NM	0	NM
Georgia	2,967	3,573	-17.0%	0	0	2,759	3,180	0	0	208	392
Maryland	1,555	1,848	-16.0%	0	0	1,071	1,269	NM	579	0	0
North Carolina	6,781	9,108	-26.0%	0	0	6,319	7,993	NM	1,114	0	0
South Carolina	3,466	4,120	-16.0%	2,140	2,539	NM	293	0	0	NM	1,288
Virginia	9,609	12,192	-21.0%	48	NM	9,381	11,903	NM	229	0	0
West Virginia	23	NM	NM	0	0	23	NM	0	0	0	0
East South Central	3,222	4,166	-23.0%	1,094	1,641	2,127	2,525	0	0	0	0
Alabama	NM	828	NM	0	0	NM	828	0	0	0	0
Kentucky	1,208	1,766	-32.0%	1,094	1,641	113	NM	0	0	0	0
Mississippi	NM	202	NM	0	0	NM	202	0	0	0	0
Tennessee	1,150	1,369	-16.0%	0	0	1,150	1,369	0	0	0	0
West South Central	10,522	14,392	-27.0%	0	0	10,174	13,817	348	575	0	0
Arkansas	1,147	1,370	-16.0%	0	0	1,147	1,370	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	248	NM	0	0	NM	248	0	0	0	0
Texas	9,296	12,775	-27.0%	0	0	8,948	12,200	348	575	0	0
Mountain	3,595	4,268	-16.0%	NM	224	3,132	3,607	299	438	0	0
Arizona	NM	790	NM	0	0	NM	790	0	0	0	0
Colorado	743	886	-16.0%	0	0	743	886	0	0	0	0
Idaho	557	745	-25.0%	NM	224	NM	363	127	159	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	455	NM	0	0	NM	455	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1,252	1,392	-10.0%	0	0	1,080	1,113	172	279	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	37,909	46,458	-18.0%	4,385	5,784	24,254	29,204	9,270	11,470	0	0
California	31,445	38,134	-18.0%	1,275	1,930	21,187	25,108	8,983	11,096	0	0
Oregon	3,515	4,570	-23.0%	833	1,084	2,394	3,112	NM	374	0	0
Washington	2,950	3,754	-21.0%	2,277	2,770	672	984	0	0	0	0
Pacific Noncontiguous	492	993	-50.0%	0	0	0	0	492	993	0	0
Alaska	492	993	-50.0%	0	0	0	0	492	993	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	178,351	219,343	-19.0%	16,176	20,200	146,156	178,722	12,866	16,896	3,153	3,525

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	321	307	4.6%	0	0	304	293	18	15	0	0
Connecticut	108	108	0.0%	0	0	108	108	0	0	0	0
Maine	28	23	22.0%	0	0	10	8	18	15	0	0
Massachusetts	176	167	5.5%	0	0	176	167	0	0	0	0
New Hampshire	9	9	-0.6%	0	0	9	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	483	443	9.1%	0	0	387	359	96	84	0	0
New Jersey	122	117	4.3%	0	0	92	87	30	30	0	0
New York	181	162	12.0%	0	0	138	129	43	33	0	0
Pennsylvania	180	163	10.0%	0	0	157	143	23	21	0	0
East North Central	23	22	6.2%	3	4	0	0	20	18	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	44.0%	0	0	0	0	1	1	0	0
Michigan	19	17	8.3%	0	0	0	0	19	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-12.0%	3	4	0	0	0	0	0	0
West North Central	64	57	13.0%	44	39	20	16	NM	2	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	64	57	13.0%	44	39	20	16	NM	2	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	435	494	-12.0%	0	0	402	462	33	33	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	345	335	3.1%	0	0	345	335	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	57	68	-16.0%	0	0	57	68	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	33	92	-64.0%	0	0	0	59	33	33	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	0	141.0%	0	0	0	0	0	0	1	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	0	141.0%	0	0	0	0	0	0	1	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	NM	NM	0	0	0	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	NM	NM	0	0	0	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	63	60	3.8%	0	0	63	60	0	0	0	0
California	40	41	-0.7%	0	0	40	41	0	0	0	0
Oregon	9	8	14.0%	0	0	9	8	0	0	0	0
Washington	13	12	12.0%	0	0	13	12	0	0	0	0
Pacific Noncontiguous	40	44	-7.9%	0	0	0	0	40	44	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	40	44	-7.9%	0	0	0	0	40	44	0	0
U.S. Total	1,430	1,427	0.2%	47	42	1,176	1,190	206	195	1	0

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	2,466	2,388	3.3%	0	0	2,328	2,261	137	127	0	0
Connecticut	842	846	-0.4%	0	0	842	846	0	0	0	0
Maine	214	187	14.0%	0	0	77	60	137	127	0	0
Massachusetts	1,327	1,282	3.5%	0	0	1,327	1,282	0	0	0	0
New Hampshire	83	73	14.0%	0	0	83	73	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,629	3,382	7.3%	0	0	2,883	2,694	746	688	0	0
New Jersey	954	888	7.5%	0	0	720	656	234	232	0	0
New York	1,351	1,237	9.2%	0	0	1,008	951	343	286	0	0
Pennsylvania	1,324	1,257	5.3%	0	0	1,155	1,087	169	170	0	0
East North Central	169	166	2.2%	25	26	0	0	145	140	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	8	6	43.0%	0	0	0	0	8	6	0	0
Michigan	137	134	1.7%	0	0	0	0	137	134	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	25	26	-4.0%	25	26	0	0	0	0	0	0
West North Central	433	418	3.6%	261	280	161	124	NM	14	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	433	418	3.6%	261	280	161	124	NM	14	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,485	3,727	-6.5%	0	0	3,220	3,473	265	254	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	2,642	2,542	3.9%	0	0	2,642	2,542	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	511	546	-6.3%	0	0	511	545	0	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	331	639	-48.0%	0	0	66	385	265	254	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	4	6	-26.0%	0	0	0	0	0	0	4	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	6	-26.0%	0	0	0	0	0	0	4	6
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	1	-66.0%	0	0	0	1	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	1	-66.0%	0	0	0	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	505	417	21.0%	0	0	505	417	0	0	0	0
California	328	266	23.0%	0	0	328	266	0	0	0	0
Oregon	71	60	18.0%	0	0	71	60	0	0	0	0
Washington	105	90	17.0%	0	0	105	90	0	0	0	0
Pacific Noncontiguous	280	288	-2.9%	0	0	0	0	280	288	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	280	288	-2.9%	0	0	0	0	280	288	0	0
U.S. Total	10,971	10,793	1.7%	286	306	9,097	8,970	1,584	1,511	4	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.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	4,967	5,129	-3.2%	829	771	3,588	3,824	3	NM	546	533
Connecticut	NM	413	NM	0	0	NM	413	0	0	0	0
Maine	2,078	2,023	2.7%	0	0	1,532	1,490	0	0	546	533
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,927	2,046	-5.8%	445	456	1,482	1,590	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	563	485	16.0%	384	315	NM	NM	2	NM	0	0
Middle Atlantic	1,252	1,072	17.0%	0	0	766	651	0	0	486	420
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	864	723	19.0%	0	0	766	651	0	0	98	72
Pennsylvania	388	348	11.0%	0	0	0	0	0	0	388	348
East North Central	2,295	2,560	-10.0%	367	493	936	1,161	0	0	992	907
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,481	1,702	-13.0%	0	0	877	1,102	0	0	605	601
Ohio	197	189	3.8%	0	0	59	NM	0	0	138	131
Wisconsin	617	668	-7.8%	367	493	0	0	0	0	249	176
West North Central	1,221	1,126	8.5%	221	208	656	554	55	101	289	263
Iowa	2	0	--	0	0	0	0	2	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,178	1,078	9.2%	221	208	656	554	12	53	289	263
Missouri	41	47	-13.0%	0	0	0	0	41	47	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	11,020	10,702	3.0%	1,796	2,244	3,422	2,969	0	NM	5,801	5,472
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	1,397	1,387	0.7%	0	0	592	648	0	0	805	739
Georgia	3,141	2,651	19.0%	0	0	1,076	653	0	0	2,066	1,997
Maryland	71	57	25.0%	0	0	0	0	0	NM	71	39
North Carolina	1,583	1,392	14.0%	0	0	899	777	0	0	684	615
South Carolina	2,354	2,334	0.8%	280	357	584	490	0	0	1,490	1,487
Virginia	2,473	2,882	-14.0%	1,516	1,887	271	401	0	0	686	594
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,262	3,310	-1.4%	0	0	205	225	0	0	3,057	3,085
Alabama	2,016	2,027	-0.5%	0	0	205	225	0	0	1,811	1,802
Kentucky	140	155	-9.6%	0	0	0	0	0	0	140	155
Mississippi	680	708	-3.9%	0	0	0	0	0	0	680	708
Tennessee	425	421	1.1%	0	0	0	0	0	0	425	421
West South Central	3,272	3,951	-17.0%	0	92	78	684	0	0	3,194	3,175
Arkansas	667	634	5.2%	0	0	0	0	0	0	667	634
Louisiana	1,780	1,780	0.0%	0	0	0	0	0	0	1,780	1,780
Oklahoma	101	105	-4.1%	0	0	0	0	0	0	101	105
Texas	724	1,432	-49.0%	0	92	78	684	0	0	646	656
Mountain	864	789	9.6%	0	0	478	420	0	0	386	369
Arizona	NM	325	NM	0	0	NM	325	0	0	0	0
Colorado	125	NM	NM	0	0	125	NM	0	0	0	0
Idaho	439	391	12.0%	0	0	76	69	0	0	363	322
Montana	23	NM	NM	0	0	0	0	0	0	23	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,411	6,254	2.5%	386	483	4,115	4,057	0	0	1,910	1,715
California	4,271	4,094	4.3%	0	0	3,888	3,806	0	0	383	288
Oregon	582	584	-0.3%	0	0	NM	NM	0	0	355	333
Washington	1,558	1,576	-1.1%	386	483	0	0	0	0	1,172	1,093
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	34,564	34,893	-0.9%	3,601	4,290	14,244	14,544	57	120	16,662	15,939

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	38,048	41,460	-8.2%	5,863	6,251	27,691	31,101	54	18	4,441	4,091
Connecticut	1,710	3,036	-44.0%	0	0	1,710	3,036	0	0	0	0
Maine	16,672	17,361	-4.0%	0	0	12,196	13,265	35	NM	4,441	4,091
Massachusetts	1,309	1,294	1.2%	0	0	1,309	1,294	0	0	0	0
New Hampshire	14,391	15,382	-6.4%	3,237	3,202	11,153	12,180	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,967	4,386	-9.6%	2,626	3,049	1,322	1,325	19	12	0	0
Middle Atlantic	9,101	8,480	7.3%	0	0	5,383	4,824	0	0	3,718	3,656
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	6,148	5,583	10.0%	0	0	5,381	4,821	0	0	767	762
Pennsylvania	2,953	2,897	1.9%	0	0	1	NM	0	0	2,952	2,894
East North Central	17,773	19,502	-8.9%	3,227	3,821	7,312	8,218	0	0	7,234	7,463
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	11,200	12,370	-9.5%	0	NM	6,877	7,772	0	0	4,323	4,598
Ohio	1,423	1,488	-4.4%	0	0	434	446	0	0	989	1,043
Wisconsin	5,150	5,644	-8.8%	3,227	3,821	0	0	0	0	1,922	1,823
West North Central	8,354	7,768	7.5%	1,376	1,426	4,386	4,270	344	321	2,248	1,751
Iowa	4	NM	NM	0	0	0	0	4	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	8,045	7,517	7.0%	1,376	1,426	4,386	4,270	35	70	2,248	1,751
Missouri	305	249	22.0%	0	0	0	0	305	249	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	81,189	78,283	3.7%	14,018	14,733	24,989	21,203	44	138	42,137	42,208
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	12,770	9,994	28.0%	0	0	6,609	4,168	0	0	6,161	5,827
Georgia	20,905	20,234	3.3%	0	0	5,484	4,950	0	0	15,421	15,283
Maryland	521	557	-6.6%	0	0	0	0	44	138	477	419
North Carolina	10,391	10,377	0.1%	0	0	6,543	5,945	0	0	3,848	4,432
South Carolina	18,191	17,864	1.8%	2,655	2,564	4,258	4,083	0	0	11,277	11,216
Virginia	18,412	19,257	-4.4%	11,363	12,169	2,095	2,057	0	0	4,954	5,031
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	24,352	25,290	-3.7%	0	0	1,536	1,555	0	0	22,816	23,735
Alabama	14,657	15,351	-4.5%	0	0	1,536	1,555	0	0	13,121	13,795
Kentucky	1,071	1,175	-8.8%	0	0	0	0	0	0	1,071	1,175
Mississippi	5,512	5,569	-1.0%	0	0	0	0	0	0	5,512	5,569
Tennessee	3,111	3,195	-2.6%	0	0	0	0	0	0	3,111	3,195
West South Central	24,879	25,719	-3.3%	0	337	905	1,449	0	0	23,974	23,933
Arkansas	5,206	4,867	7.0%	0	0	0	0	0	0	5,206	4,867
Louisiana	13,231	13,458	-1.7%	0	0	0	0	0	0	13,231	13,458
Oklahoma	679	803	-15.0%	0	0	0	0	0	0	679	803
Texas	5,763	6,591	-13.0%	0	337	905	1,449	0	0	4,858	4,805
Mountain	6,543	6,174	6.0%	0	0	3,416	2,816	0	0	3,127	3,358
Arizona	2,051	2,247	-8.7%	0	0	2,051	2,247	0	0	0	0
Colorado	901	NM	NM	0	0	901	NM	0	0	0	0
Idaho	3,243	3,515	-7.7%	0	0	465	520	0	0	2,778	2,996
Montana	349	362	-3.8%	0	0	0	0	0	0	349	362
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	47,039	44,712	5.2%	2,909	3,118	30,204	28,780	0	0	13,925	12,814
California	31,538	29,200	8.0%	0	0	28,451	27,009	0	0	3,088	2,191
Oregon	4,416	4,329	2.0%	0	0	1,754	1,771	0	0	2,663	2,558
Washington	11,085	11,183	-0.9%	2,909	3,118	0	0	0	0	8,175	8,065
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	257,278	257,387	0.0%	27,393	29,685	105,822	104,216	442	477	123,621	123,009

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

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

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2015, End of Month Stocks									
January	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
Year 2016, End of Month Stocks									
January	187,486	32,397	1,320	146,459	20,980	1,089	41,026	11,416	231
February	187,575	31,637	1,323	146,224	20,670	1,064	41,351	10,967	259
March	192,269	31,579	1,240	149,113	20,697	974	43,156	10,883	266
April	193,991	31,695	1,181	151,329	20,909	901	42,662	10,786	280
May	193,432	31,925	1,071	151,237	21,114	826	42,195	10,810	246
June	183,248	31,687	905	144,987	20,967	689	38,261	10,720	216
July	169,465	31,190	858	135,110	20,652	678	34,354	10,537	180
August	160,452	34,823	780	129,111	20,402	589	31,341	14,421	190
Sept	158,238	34,768	768	128,419	20,378	566	29,820	14,389	201
October	162,739	34,723	812	132,438	20,268	606	30,301	14,455	207
November	172,208	30,982	833	139,080	20,501	606	33,128	10,480	227
December	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2017, End of Month Stocks									
January	157,359	31,030	827	125,648	20,373	584	31,711	10,657	243
February	161,985	30,549	859	128,557	20,096	606	33,428	10,453	253
March	163,900	29,449	882	129,324	20,105	621	34,577	9,344	261
April	166,236	29,170	952	131,184	19,969	685	35,053	9,201	268
May	164,924	28,780	892	130,139	19,556	625	34,785	9,224	267
June	160,540	28,446	869	127,461	19,474	597	33,079	8,972	272
July	148,084	28,394	866	118,572	19,481	608	29,512	8,913	258
August	144,129	28,078	900	115,053	19,214	632	29,076	8,864	268

Notes: See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	August 2017	August 2016	Percentage Change	August 2017	August 2016	Percentage Change	August 2017	August 2016	Percentage Change
New England	W	1,775	W	3,638	4,536	-19.8%	0	0	--
Connecticut	W	W	W	1,227	1,584	-22.5%	0	0	--
Maine	0	0	--	410	491	-16.4%	0	0	--
Massachusetts	W	W	W	1,482	1,885	-21.4%	0	0	--
New Hampshire	W	W	W	339	376	-9.9%	0	0	--
Rhode Island	W	W	W	147	150	-2.1%	0	0	--
Vermont	0	0	--	32	50	-36.4%	0	0	--
Middle Atlantic	4,474	5,112	-12.5%	4,719	9,335	-49.4%	0	0	--
New Jersey	126	785	-84.0%	478	694	-31.2%	0	0	--
New York	W	W	W	3,224	7,340	-56.1%	0	0	--
Pennsylvania	W	W	W	1,018	1,301	-21.8%	0	0	--
East North Central	30,012	36,336	-17.4%	790	1,064	-25.7%	356	198	79.4%
Illinois	7,013	7,349	-4.6%	53	77	-31.6%	0	0	--
Indiana	8,454	10,143	-16.7%	90	110	-18.3%	W	0	W
Michigan	4,554	5,408	-15.8%	268	304	-11.9%	W	W	W
Ohio	5,804	9,289	-37.5%	244	342	-28.6%	W	W	W
Wisconsin	4,187	4,147	1.0%	134	230	-41.4%	W	W	W
West North Central	26,533	29,500	-10.1%	643	994	-35.3%	0	0	--
Iowa	6,346	7,498	-15.4%	79	133	-40.6%	0	0	--
Kansas	3,676	4,219	-12.9%	113	131	-13.6%	0	0	--
Minnesota	3,700	W	W	79	132	-40.5%	0	0	--
Missouri	7,531	8,742	-13.8%	260	397	-34.6%	0	0	--
Nebraska	3,323	3,332	-0.3%	54	101	-46.5%	0	0	--
North Dakota	W	1,720	W	30	43	-30.6%	0	0	--
South Dakota	W	W	W	29	57	-49.0%	0	0	--
South Atlantic	24,258	26,114	-7.1%	11,916	11,915	0.0%	W	W	W
Delaware	W	W	W	281	444	-36.6%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,687	5,021	-6.7%	5,502	5,097	7.9%	118	W	W
Georgia	4,840	4,359	11.0%	776	816	-4.9%	0	0	--
Maryland	1,526	795	91.9%	779	856	-9.0%	0	0	--
North Carolina	3,956	4,982	-20.6%	1,184	1,237	-4.3%	0	0	--
South Carolina	4,201	W	W	661	715	-7.5%	0	0	--
Virginia	1,059	1,002	5.7%	2,599	2,605	-0.3%	0	0	--
West Virginia	W	4,341	W	134	145	-7.6%	W	W	W
East South Central	14,885	14,714	1.2%	1,875	1,887	-0.6%	W	W	W
Alabama	2,906	4,173	-30.4%	326	339	-3.9%	0	0	--
Kentucky	7,543	6,808	10.8%	240	240	0.1%	W	W	W
Mississippi	1,276	1,021	25.0%	563	575	-2.2%	0	0	--
Tennessee	3,159	2,711	16.5%	746	732	1.9%	0	0	--
West South Central	21,123	24,707	-14.5%	1,702	1,851	-8.0%	W	W	W
Arkansas	2,278	4,607	-50.5%	179	174	2.8%	0	0	--
Louisiana	2,329	2,301	1.2%	373	428	-12.9%	W	W	W
Oklahoma	3,690	5,394	-31.6%	97	95	1.8%	0	0	--
Texas	12,826	12,406	3.4%	1,053	1,153	-8.6%	0	0	--
Mountain	20,234	20,542	-1.5%	360	401	-10.2%	W	W	W
Arizona	3,125	3,694	-15.4%	128	134	-4.4%	0	0	--
Colorado	4,008	5,002	-19.9%	120	120	0.0%	0	0	--
Idaho	0	0	--	0	0	-14.0%	0	0	--
Montana	W	W	W	17	19	-10.5%	W	W	W
Nevada	W	755	W	5	14	-66.5%	0	0	--
New Mexico	W	W	W	28	43	-33.9%	0	0	--
Utah	5,474	5,151	6.3%	30	39	-24.7%	0	0	--
Wyoming	5,011	3,907	28.2%	32	31	1.6%	0	0	--
Pacific Contiguous	W	W	W	353	503	-29.9%	0	0	--
California	0	0	--	163	165	-1.3%	0	0	--
Oregon	W	W	W	45	79	-42.3%	0	0	--
Washington	W	W	W	144	259	-44.4%	0	0	--
Pacific Noncontiguous	W	W	W	2,081	2,337	-10.9%	0	0	--
Alaska	0	W	W	36	176	-79.4%	0	0	--
Hawaii	W	W	W	2,045	2,160	-5.4%	0	0	--
U.S. Total	144,129	160,452	-10.2%	28,078	34,823	-19.4%	900	780	15.4%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**August 2017**	**August 2016**	**Percentage Change**	**August 2017**	**August 2016**	**August 2017**	**August 2016**
Coal (Thousand Tons)							
New England	W	1,775	W	W	W	W	W
Middle Atlantic	4,474	5,112	-12.5%	W	0	W	5,112
East North Central	30,012	36,336	-17.4%	W	22,818	W	13,519
West North Central	26,533	29,500	-10.1%	26,533	29,500	0	0
South Atlantic	24,258	26,114	-7.1%	21,803	24,475	2,455	1,639
East South Central	14,885	14,714	1.2%	14,885	14,714	0	0
West South Central	21,123	24,707	-14.5%	12,681	16,564	8,442	8,143
Mountain	20,234	20,542	-1.5%	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	**144,129**	**160,452**	**-10.2%**	**115,053**	**129,111**	**29,076**	**31,341**
Petroleum Liquids (Thousand Barrels)							
New England	3,638	4,536	-19.8%	595	691	3,044	3,845
Middle Atlantic	4,719	9,335	-49.4%	1,960	2,084	2,759	7,251
East North Central	790	1,064	-25.7%	568	768	222	295
West North Central	643	994	-35.3%	623	971	20	23
South Atlantic	11,916	11,915	0.0%	9,794	9,631	2,122	2,284
East South Central	1,875	1,887	-0.6%	1,802	1,814	73	73
West South Central	1,702	1,851	-8.0%	1,305	1,366	397	485
Mountain	360	401	-10.2%	327	369	33	32
Pacific Contiguous	353	503	-29.9%	247	404	106	99
Pacific Noncontiguous	2,081	2,337	-10.9%	1,992	2,303	88	33
U.S. Total	**28,078**	**34,823**	**-19.4%**	**19,214**	**20,402**	**8,864**	**14,421**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	356	198	79.4%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	118	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	**900**	**780**	**15.4%**	**W**	**W**	**W**	**W**

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

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

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	68,537	91,037	4,371	163,946
Year 2015, End of Month Stocks				
January	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
Year 2016, End of Month Stocks				
January	77,097	105,748	4,640	187,486
February	76,703	106,336	4,536	187,575
March	80,108	107,364	4,797	192,269
April	81,927	106,996	5,068	193,991
May	82,822	105,444	5,166	193,432
June	78,959	99,244	5,046	183,248
July	72,162	92,580	4,723	169,465
August	68,469	87,596	4,386	160,452
Sept	67,066	87,009	4,163	158,238
October	68,439	90,327	3,974	162,739
November	71,824	96,101	4,283	172,208
December	68,537	91,037	4,371	163,946
Year 2017, End of Month Stocks				
January	66,155	86,869	4,335	157,359
February	68,479	89,083	4,424	161,985
March	68,990	90,259	4,651	163,900
April	69,608	91,622	5,005	166,236
May	69,755	89,965	5,204	164,924
June	68,142	87,697	4,701	160,540
July	62,068	81,735	4,281	148,084
August	60,480	78,599	5,050	144,129

Notes: See Glossary for definitions.
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:
Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,332,849	638,564	2.12	40.87	1.35	92.2	100,602	16,610	9.36	56.72	0.48	69.9
Year 2015												
January	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
Year 2016												
January	1,019,963	53,356	2.12	40.60	1.33	84.0	8,974	1,499	7.92	47.44	0.46	58.3
February	965,792	49,873	2.11	40.90	1.40	96.0	7,927	1,307	6.98	42.32	0.46	56.0
March	884,181	44,893	2.18	42.88	1.46	108.9	6,862	1,132	6.90	41.82	0.44	73.1
April	793,417	40,144	2.16	42.69	1.46	100.3	8,529	1,404	8.35	50.75	0.41	93.7
May	859,334	43,883	2.16	42.39	1.45	95.0	9,129	1,520	9.79	58.87	0.44	85.7
June	1,008,277	52,327	2.10	40.47	1.35	81.1	7,517	1,247	10.38	62.59	0.49	70.3
July	1,138,678	59,400	2.11	40.53	1.28	78.8	8,993	1,460	11.82	72.81	0.51	59.8
August	1,235,488	63,867	2.11	40.85	1.32	85.1	9,033	1,479	9.44	57.64	0.51	60.9
Sept	1,140,035	59,344	2.12	40.79	1.30	93.5	8,092	1,332	9.40	57.12	0.50	77.5
October	1,125,959	58,765	2.08	39.77	1.28	105.6	8,262	1,370	9.98	60.24	0.53	76.2
November	1,082,191	56,397	2.09	40.03	1.29	114.7	9,437	1,552	10.07	61.25	0.49	89.0
December	1,079,534	56,315	2.08	39.85	1.32	85.2	7,849	1,308	W	W	0.46	61.6
Year 2017												
January	1,081,835	56,573	2.09	40.05	1.26	87.3	9,304	1,546	11.91	71.72	0.46	69.3
February	997,021	52,062	2.07	39.58	1.30	105.8	6,122	1,015	11.61	70.06	0.49	58.6
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.3
April	893,611	46,168	2.11	40.85	1.34	101.5	6,223	1,033	11.59	69.85	0.48	61.3
May	948,234	49,206	2.13	41.01	1.33	94.4	6,481	1,081	W	W	0.48	56.5
June	1,031,599	53,462	2.11	40.72	1.31	88.8	7,209	1,196	W	W	0.47	63.6
July	1,084,862	56,876	2.09	39.82	1.22	79.9	6,461	1,081	W	W	0.48	52.9
August	1,172,537	61,134	2.08	39.85	1.30	91.2	6,866	1,136	W	W	0.47	61.1
Year to Date												
2015	10,144,195	525,340	2.25	43.45	1.30	98.5	96,291	15,906	12.73	77.16	0.50	64.3
2016	7,905,130	407,743	2.13	41.30	1.37	89.0	66,963	11,049	9.02	54.70	0.47	67.5
2017	8,176,698	425,654	2.09	40.23	1.30	92.5	60,656	10,105	11.40	68.45	0.49	66.7
Rolling 12 Months Ending in August												
2016	12,847,143	665,332	2.14	41.43	1.33	97.7	118,319	19,463	9.08	55.23	0.46	82.1
2017	12,604,417	656,475	2.09	40.19	1.30	94.5	94,295	15,667	W	W	0.49	69.5

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

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

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,935	4,166	1.65	46.23	5.40	78.7	10,605,977	10,258,688	2.88	2.97	90.3	2.47
Year 2015												
January	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	81.2	821,744	793,971	3.01	3.12	89.4	2.52
February	11,272	408	1.30	35.80	5.53	98.1	734,227	709,538	2.70	2.79	89.2	2.37
March	10,312	363	1.41	40.14	5.33	76.5	796,031	770,399	2.23	2.31	90.1	2.22
April	10,307	369	1.35	37.75	5.56	80.0	773,827	749,028	2.42	2.50	90.2	2.31
May	8,554	307	1.32	36.76	5.35	69.0	856,800	830,090	2.40	2.47	90.5	2.31
June	6,894	240	1.41	40.48	4.67	52.1	1,019,040	987,371	2.67	2.76	91.0	2.40
July	10,031	355	1.47	41.45	5.14	72.8	1,186,484	1,148,584	2.97	3.07	91.1	2.56
August	11,032	398	1.75	48.48	5.42	78.7	1,204,258	1,162,373	2.96	3.06	91.2	2.53
Sept	10,740	381	2.04	57.51	5.17	85.0	967,740	934,760	3.08	3.19	90.9	2.56
October	8,843	317	1.98	55.43	5.69	88.3	793,786	768,090	3.13	3.24	90.1	2.51
November	9,364	333	2.26	63.60	5.69	87.4	721,768	698,431	3.02	3.12	89.8	2.47
December	9,944	355	2.07	57.94	5.43	82.0	730,273	706,054	3.96	4.10	89.4	W
Year 2017												
January	7,058	251	2.14	60.16	5.67	57.6	607,841	587,377	4.12	4.27	76.9	2.83
February	7,593	271	2.00	56.03	5.85	81.5	534,117	516,936	3.58	3.69	78.0	2.60
March	8,628	309	2.06	57.51	5.29	85.2	616,865	597,210	3.36	3.47	76.1	2.62
April	5,835	208	2.00	55.96	5.34	90.9	576,207	557,625	3.37	3.49	76.9	2.61
May	6,776	242	2.05	57.46	5.57	60.0	645,937	625,781	3.49	3.60	77.3	W
June	8,657	308	W	W	5.55	70.2	762,367	737,860	3.31	3.41	77.9	W
July	8,498	302	W	W	5.50	71.9	928,737	897,826	3.22	3.33	76.7	W
August	7,972	284	W	W	5.47	75.6	900,124	870,465	3.16	3.27	77.5	W
Year to Date												
2015	91,138	3,218	1.92	54.44	5.18	89.3	6,799,975	6,580,213	3.44	3.55	90.1	2.74
2016	78,043	2,781	1.43	40.06	5.36	75.8	7,392,410	7,151,353	2.70	2.79	90.4	2.42
2017	61,018	2,175	W	W	5.53	72.6	5,572,195	5,391,080	3.42	3.53	77.1	W
Rolling 12 Months Ending in August												
2016	125,572	4,460	1.52	42.91	5.37	84.8	10,765,938	10,413,722	2.74	2.83	90.1	2.43
2017	99,910	3,560	W	W	5.51	77.1	8,785,761	8,498,415	3.37	3.48	81.4	W

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

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- 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 - August 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,200,962	472,909	2.16	42.09	1.22	94.7	73,050	11,943	9.16	56.02	0.45	76.1
Year 2015												
January	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
Year 2016												
January	746,616	38,805	2.17	41.79	1.18	85.0	6,186	1,021	7.88	47.73	0.44	60.6
February	717,946	36,885	2.16	42.04	1.23	97.7	5,810	954	6.92	42.15	0.41	67.6
March	681,849	34,396	2.20	43.57	1.34	110.4	5,220	851	6.69	41.06	0.40	81.4
April	606,778	30,610	2.19	43.51	1.31	106.5	6,895	1,125	8.35	51.19	0.37	110.7
May	651,230	33,180	2.17	42.66	1.26	97.8	6,738	1,114	9.12	55.15	0.40	94.9
June	771,022	39,635	2.15	41.85	1.24	85.3	5,508	908	10.51	63.79	0.44	72.9
July	843,774	43,673	2.18	42.06	1.15	80.5	7,114	1,142	11.54	71.92	0.52	68.1
August	919,918	47,289	2.17	42.27	1.19	87.5	6,733	1,089	9.15	56.56	0.51	66.8
Sept	846,033	43,523	2.18	42.41	1.18	96.8	5,507	895	9.03	55.59	0.49	80.4
October	837,987	43,418	2.13	41.05	1.17	109.7	5,174	845	9.75	59.67	0.52	74.1
November	801,020	41,349	2.13	41.33	1.21	116.9	6,602	1,075	9.79	60.10	0.48	89.7
December	776,790	40,148	2.13	41.24	1.21	84.8	5,562	924	10.73	64.58	0.44	68.4
Year 2017												
January	783,283	40,654	2.14	41.32	1.15	86.5	6,498	1,069	11.09	67.38	0.44	71.5
February	732,713	38,088	2.11	40.63	1.20	106.1	4,563	754	11.53	69.80	0.46	63.7
March	702,185	36,293	2.13	41.15	1.21	100.7	10,468	1,759	11.58	68.94	0.53	131.1
April	646,292	33,094	2.15	41.91	1.22	103.9	4,679	774	11.38	68.84	0.46	63.8
May	698,108	35,802	2.16	42.16	1.22	94.8	4,608	763	11.38	68.72	0.45	58.4
June	780,770	40,045	2.13	41.61	1.20	90.6	5,560	915	10.86	66.00	0.47	71.1
July	816,276	42,290	2.12	40.87	1.11	80.6	4,627	769	10.90	65.59	0.45	61.6
August	882,432	45,611	2.11	40.88	1.19	92.3	5,107	838	11.08	67.53	0.46	65.9
Year to Date												
2015	7,465,406	384,290	2.27	44.12	1.18	100.8	61,074	10,024	12.38	75.42	0.47	73.4
2016	5,939,133	304,473	2.17	42.41	1.23	91.7	50,205	8,204	8.85	54.19	0.44	75.4
2017	6,042,060	311,876	2.13	41.29	1.19	93.2	46,111	7,641	11.26	67.93	0.48	73.8
Rolling 12 Months Ending in August												
2016	9,562,357	491,890	2.19	42.59	1.20	100.1	79,172	12,926	8.94	54.76	0.44	81.5
2017	9,303,889	480,312	2.13	41.37	1.19	95.7	68,956	11,380	10.78	65.34	0.48	75.1

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.77	5.38	103.1	5,059,987	4,892,902	3.15	3.26	96.8	2.54
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,006	381,192	3.27	3.38	97.3	2.57
February	9,837	356	1.13	31.18	5.53	131.0	355,300	343,232	2.96	3.07	97.0	2.44
March	8,402	294	1.21	34.47	5.28	103.8	382,382	370,058	2.53	2.61	97.3	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,760	356,152	2.72	2.80	97.5	2.42
May	7,842	281	1.22	34.16	5.35	94.9	411,449	398,370	2.68	2.77	97.0	2.40
June	6,325	220	1.33	38.34	4.59	71.4	500,006	484,203	2.88	2.97	96.4	2.47
July	9,587	340	1.43	40.50	5.10	104.6	569,055	550,931	3.20	3.31	95.4	2.63
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	95.7	2.60
Sept	9,059	320	1.96	55.58	5.12	102.8	456,568	440,900	3.43	3.55	96.8	2.64
October	7,088	253	1.87	52.47	5.71	146.9	368,564	356,539	3.54	3.65	96.6	2.58
November	7,871	279	2.22	62.85	5.74	116.3	338,187	326,505	3.37	3.49	98.0	2.54
December	8,017	284	1.99	56.17	5.39	108.8	347,451	335,619	4.15	4.30	97.8	2.79
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,225	278,482	4.34	4.49	84.7	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	86.2	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,742	288,239	3.56	3.67	83.3	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,428	272,355	3.52	3.63	83.8	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,832	313,928	3.71	3.82	84.4	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,281	356,626	3.58	3.69	82.6	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,468	431,599	3.48	3.60	79.1	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,273	418,121	3.46	3.57	80.0	2.58
Year to Date												
2015	75,573	2,655	1.87	53.13	5.16	121.0	3,157,550	3,056,222	3.70	3.82	96.2	2.74
2016	67,671	2,403	1.28	36.13	5.34	98.1	3,549,217	3,433,339	2.96	3.06	96.6	2.49
2017	60,197	2,145	2.08	58.33	5.53	113.4	2,688,886	2,601,984	3.65	3.77	82.5	2.64
Rolling 12 Months Ending in August												
2016	108,027	3,818	1.40	39.56	5.35	112.9	5,109,414	4,942,157	3.02	3.12	96.3	2.51
2017	92,232	3,280	2.06	57.81	5.51	114.1	4,199,656	4,061,547	3.64	3.76	87.3	2.64

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6
Year 2015												
January	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
Year 2016												
January	258,912	13,908	1.95	36.22	1.73	85.3	2,646	456	7.85	45.72	0.42	67.7
February	235,185	12,416	1.93	36.54	1.93	97.4	1,842	308	6.92	41.44	0.47	43.3
March	187,520	9,832	2.05	39.03	1.91	113.8	1,471	254	7.48	43.40	0.47	68.0
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.1
May	195,458	10,130	2.10	40.44	2.08	91.5	2,306	392	11.84	69.78	0.48	95.5
June	223,442	12,073	1.88	34.83	1.74	71.9	1,819	308	10.07	59.42	0.47	85.8
July	281,765	15,130	1.90	35.31	1.68	76.2	1,819	309	12.97	76.45	0.45	56.4
August	301,966	15,952	1.90	35.92	1.73	80.8	2,242	380	10.26	60.55	0.48	64.2
Sept	283,296	15,336	1.92	35.53	1.66	88.0	2,465	418	10.16	59.95	0.49	91.2
October	275,084	14,756	1.89	35.17	1.63	98.3	2,860	487	10.39	61.10	0.49	110.6
November	270,983	14,587	1.92	35.71	1.54	114.5	2,625	441	10.76	64.02	0.47	115.1
December	291,318	15,642	1.92	35.67	1.61	89.4	2,183	367	W	W	0.50	64.9
Year 2017												
January	283,569	15,216	1.93	36.03	1.54	92.4	2,679	456	13.98	82.08	0.47	89.2
February	249,202	13,269	1.90	35.70	1.59	108.7	1,438	241	W	W	0.50	61.6
March	247,658	13,058	1.93	36.69	1.75	101.6	1,344	231	12.02	69.90	0.44	78.0
April	231,929	12,350	1.97	37.09	1.66	98.2	1,383	233	W	W	0.44	76.3
May	234,471	12,642	1.99	36.90	1.67	95.2	1,718	293	W	W	0.45	69.6
June	235,649	12,697	2.00	37.15	1.68	85.2	1,507	258	W	W	0.42	61.4
July	253,594	13,865	1.97	36.04	1.55	78.9	1,739	297	W	W	0.48	48.7
August	274,367	14,784	1.94	35.96	1.64	89.3	1,649	280	W	W	0.43	67.9
Year to Date												
2015	2,498,799	132,770	2.15	40.52	1.67	94.8	33,645	5,625	13.36	80.08	0.48	63.0
2016	1,858,412	98,420	1.95	36.84	1.83	85.3	15,602	2,656	9.54	56.12	0.47	66.3
2017	2,010,440	107,880	1.95	36.41	1.63	92.7	13,458	2,290	11.94	70.16	0.46	68.0
Rolling 12 Months Ending in August												
2016	3,091,121	164,632	1.97	36.96	1.75	95.0	37,205	6,220	W	W	0.45	109.1
2017	3,131,121	168,202	1.94	36.10	1.62	93.9	23,591	4,003	W	W	0.47	76.8

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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 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 - August 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	W
Year 2015												
January	1,427	52	W	W	5.10	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	362,702	349,843	2.78	2.88	92.2	W
February	1,313	47	W	W	5.44	97.1	321,535	310,739	2.43	2.51	93.4	W
March	1,337	48	W	W	5.37	65.2	352,243	340,715	1.90	1.96	94.1	W
April	1,203	44	W	W	5.30	88.4	344,777	333,405	2.07	2.14	93.7	W
May	505	18	W	W	5.28	30.6	384,336	372,428	2.04	2.11	94.3	W
June	348	12	W	W	5.32	20.5	456,773	442,681	2.42	2.50	94.3	W
July	223	8	W	W	5.67	12.1	551,548	533,794	2.67	2.76	94.6	W
August	1,509	55	W	W	5.24	77.2	568,632	549,115	2.63	2.72	94.6	W
Sept	1,482	53	W	W	5.43	90.6	448,557	433,304	2.63	2.72	94.3	W
October	1,548	56	W	W	5.59	78.5	361,739	349,983	2.62	2.71	94.0	W
November	1,294	46	W	W	5.43	83.4	317,947	308,170	2.60	2.68	93.3	W
December	1,500	55	W	W	5.50	84.2	314,419	304,102	3.83	3.96	93.5	W
Year 2017												
January	0	0	--	--	--	0.0	260,846	252,069	3.96	4.09	81.2	2.85
February	0	0	--	--	--	0.0	228,800	221,341	3.33	3.44	82.4	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	79.5	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.18	3.29	80.8	W
May	0	0	--	--	--	0.0	269,235	260,637	3.20	3.30	80.2	W
June	0	0	--	--	--	0.0	339,115	328,000	2.93	3.03	81.5	W
July	0	0	--	--	--	0.0	423,931	409,772	2.86	2.96	81.0	W
August	0	0	--	--	--	0.0	412,143	398,444	2.76	2.85	82.1	W
Year to Date												
2015	9,440	336	2.43	68.22	5.13	62.8	3,128,719	3,027,307	3.18	3.28	93.2	W
2016	7,741	281	2.50	68.85	5.40	62.1	3,342,546	3,232,720	2.40	2.48	94.0	W
2017	0	0	--	--	--	0.0	2,439,190	2,359,092	3.13	3.23	81.1	2.56
Rolling 12 Months Ending in August												
2016	12,852	468	W	W	5.44	67.3	4,897,118	4,735,608	2.42	2.50	93.8	W
2017	5,824	211	W	W	5.49	32.6	3,881,853	3,754,652	3.03	3.13	85.4	W

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

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

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.2	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.0	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.6	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.0	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.7	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.1	0	0	--	--	--	0.0
December	214	9	W	W	3.05	13.2	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.9	0	0	--	--	--	0.0
March	104	5	W	W	3.02	8.3	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.3	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.8	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	4	0	W	W	2.77	0.4	0	0	--	--	--	0.0
Year to Date												
2015	1,890	84	2.90	65.03	2.42	15.0	0	0	--	--	--	0.0
2016	526	23	W	W	2.95	5.0	0	0	--	--	--	0.0
2017	339	15	W	W	3.00	3.9	0	0	--	--	--	0.0
Rolling 12 Months Ending in August												
2016	1,074	47	W	W	2.96	6.8	0	0	--	--	--	0.0
2017	1,102	48	W	W	3.06	8.0	0	0	--	--	--	0.0

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.6	W
February	0	0	--	--	--	0.0	488	477	W	W	5.2	W
March	0	0	--	--	--	0.0	620	610	W	W	6.4	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.4	W
June	0	0	--	--	--	0.0	599	585	W	W	6.0	W
July	0	0	--	--	--	0.0	691	667	W	W	6.2	W
August	0	0	--	--	--	0.0	802	765	W	W	7.0	W
Sept	0	0	--	--	--	0.0	610	591	W	W	6.1	W
October	0	0	--	--	--	0.0	598	575	W	W	6.6	W
November	0	0	--	--	--	0.0	613	589	W	W	6.5	W
December	0	0	--	--	--	0.0	568	549	W	W	5.6	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.7	W
February	0	0	--	--	--	0.0	646	624	W	W	6.4	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.8	W
May	0	0	--	--	--	0.0	497	483	W	W	5.5	W
June	0	0	--	--	--	0.0	615	595	W	W	6.2	W
July	0	0	--	--	--	0.0	636	613	W	W	5.9	W
August	0	0	--	--	--	0.0	809	778	W	W	7.5	W
Year to Date												
2015	0	0	--	--	--	0.0	4,038	3,972	W	W	5.2	W
2016	0	0	--	--	--	0.0	5,617	5,461	W	W	6.9	W
2017	0	0	--	--	--	0.0	5,046	4,883	W	W	6.2	W
Rolling 12 Months Ending in August												
2016	0	0	--	--	--	0.0	8,078	7,860	W	W	6.6	W
2017	0	0	--	--	--	0.0	7,435	7,187	W	W	6.2	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 - August 2017

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3
Year 2015												
January	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
Year 2016												
January	14,296	638	W	W	1.51	42.4	142	23	10.87	67.07	1.55	12.2
February	12,538	566	W	W	1.62	40.6	274	45	8.45	51.85	1.10	25.0
March	14,648	658	W	W	1.42	48.0	170	28	8.30	51.02	1.13	23.4
April	12,466	554	W	W	1.59	55.1	177	29	W	W	1.35	24.2
May	12,645	573	2.76	60.98	1.52	49.9	84	14	11.02	66.30	1.65	8.3
June	13,814	619	2.78	62.01	1.38	51.1	190	31	9.59	58.65	1.48	20.3
July	13,139	597	2.77	61.02	1.36	48.4	60	10	10.18	62.12	1.02	5.0
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.4
Sept	10,554	477	W	W	1.37	45.3	120	20	11.04	66.33	1.01	15.4
October	12,729	585	W	W	1.43	58.9	228	37	10.22	62.63	1.14	19.0
November	9,951	451	W	W	1.46	45.2	210	35	10.40	61.84	1.26	24.6
December	11,213	516	W	W	1.49	44.6	103	17	10.53	63.57	0.88	9.4
Year 2017												
January	14,872	698	W	W	1.31	54.2	128	21	11.64	72.27	1.06	12.4
February	15,014	702	W	W	1.10	64.7	121	19	W	W	1.36	16.5
March	17,051	819	W	W	1.28	71.6	178	29	10.66	66.36	1.22	21.8
April	15,389	724	W	W	1.17	70.8	160	26	W	W	1.27	18.2
May	15,645	762	W	W	1.10	71.1	155	25	W	W	1.21	16.6
June	15,163	720	W	W	1.32	66.4	142	23	W	W	1.11	15.7
July	14,992	721	2.47	51.34	1.23	69.5	95	15	W	W	1.30	10.2
August	15,734	738	W	W	1.30	69.8	110	18	W	W	1.55	13.0
Year to Date												
2015	178,099	8,196	2.74	59.59	1.34	70.5	1,572	257	14.02	85.90	1.43	15.5
2016	107,060	4,827	W	W	1.46	47.8	1,156	189	9.40	57.37	1.27	14.5
2017	123,859	5,883	W	W	1.23	66.9	1,088	174	11.08	69.08	1.25	15.4
Rolling 12 Months Ending in August												
2016	192,591	8,763	W	W	1.42	56.7	1,943	318	W	W	1.32	16.4
2017	168,306	7,912	W	W	1.28	60.9	1,749	284	W	W	1.20	15.9

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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 - August 2017 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.8	752,775	729,741	W	W	58.1	W
Year 2015												
January	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	W
Year 2016												
January	400	15	W	W	5.94	16.5	63,795	61,733	W	W	57.6	W
February	122	4	W	W	6.10	4.7	56,903	55,089	W	W	55.3	W
March	574	21	W	W	5.88	18.2	60,786	59,017	W	W	57.3	W
April	669	25	W	W	5.81	29.0	60,713	58,903	W	W	58.9	W
May	206	8	W	W	5.64	8.6	60,417	58,704	W	W	57.4	W
June	222	8	W	W	5.94	8.4	61,662	59,902	W	W	57.7	W
July	222	8	W	W	5.94	8.0	65,190	63,191	W	W	58.3	W
August	217	8	W	W	5.81	8.2	65,565	63,294	W	W	58.0	W
Sept	200	8	W	W	5.64	9.9	62,004	59,964	W	W	57.5	W
October	207	8	W	W	5.66	6.8	62,885	60,993	W	W	59.8	W
November	200	8	W	W	5.47	9.0	65,021	63,167	W	W	59.9	W
December	427	16	W	W	5.99	15.1	67,835	65,784	W	W	58.9	W
Year 2017												
January	0	0	--	--	--	0.0	58,108	56,186	W	W	49.4	W
February	0	0	--	--	--	0.0	54,035	52,337	W	W	51.1	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	49.3	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	49.7	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	49.2	W
June	271	9	W	W	5.75	9.1	54,356	52,640	W	W	50.7	W
July	253	9	W	W	5.85	9.6	57,702	55,842	W	W	51.1	W
August	296	11	W	W	5.85	11.4	54,898	53,122	W	W	50.5	W
Year to Date												
2015	6,126	226	W	W	5.54	26.3	509,668	492,712	W	W	61.3	W
2016	2,630	96	W	W	5.87	12.7	495,030	479,833	W	W	57.6	W
2017	821	29	W	W	5.82	4.2	439,073	425,121	W	W	50.1	W
Rolling 12 Months Ending in August												
2016	4,693	174	W	W	5.64	15.0	751,327	728,096	W	W	58.2	W
2017	1,854	68	W	W	5.78	6.3	696,818	675,029	W	W	53.1	W

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
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- Totals may not equal the sum of components because of independent rounding.

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	4	82	-95.0%	0	29	4	52	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	6	-25.0%	0	0	4	4	0	0	0	1
Massachusetts	0	48	-100.0%	0	0	0	48	0	0	0	0
New Hampshire	0	29	-100.0%	0	29	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	2,086	2,322	-10.0%	62	0	1,988	2,289	0	0	35	33
New Jersey	48	76	-37.0%	0	0	48	76	0	0	0	0
New York	24	80	-69.0%	0	0	0	55	0	0	24	24
Pennsylvania	2,014	2,166	-7.0%	62	0	1,940	2,157	0	0	11	9
East North Central	12,935	13,107	-1.3%	8,162	7,885	4,609	5,044	0	0	164	178
Illinois	3,721	3,507	6.1%	683	579	2,888	2,786	0	0	150	142
Indiana	2,725	2,591	5.1%	2,591	2,446	134	145	0	0	0	0
Michigan	2,251	1,943	16.0%	2,250	1,925	0	18	0	0	1	0
Ohio	2,282	3,056	-25.0%	695	948	1,587	2,095	0	0	0	13
Wisconsin	1,957	2,009	-2.6%	1,943	1,986	0	0	0	0	13	23
West North Central	10,722	11,765	-8.9%	10,476	11,628	0	0	0	4	245	133
Iowa	1,433	1,574	-9.0%	1,251	1,441	0	0	0	0	182	133
Kansas	1,135	1,562	-27.0%	1,135	1,562	0	0	0	0	0	0
Minnesota	1,256	1,237	1.5%	1,256	1,237	0	0	0	0	0	0
Missouri	3,339	3,698	-9.7%	3,339	3,694	0	0	0	4	0	0
Nebraska	1,228	1,316	-6.7%	1,165	1,316	0	0	0	0	63	0
North Dakota	2,191	2,236	-2.0%	2,191	2,236	0	0	0	0	0	0
South Dakota	140	142	-0.8%	140	142	0	0	0	0	0	0
South Atlantic	8,435	9,205	-8.4%	7,500	8,047	851	1,096	0	0	85	62
Delaware	0	12	-100.0%	0	0	0	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,555	1,610	-3.4%	1,522	1,573	13	37	0	0	20	0
Georgia	1,557	1,651	-5.7%	1,549	1,641	0	0	0	0	9	10
Maryland	285	484	-41.0%	0	0	270	467	0	0	15	17
North Carolina	1,414	1,364	3.7%	1,393	1,364	3	0	0	0	19	0
South Carolina	558	777	-28.0%	558	769	0	0	0	0	0	8
Virginia	619	767	-19.0%	551	696	46	45	0	0	22	26
West Virginia	2,446	2,540	-3.7%	1,927	2,005	519	535	0	0	0	0
East South Central	5,798	6,794	-15.0%	5,533	6,362	183	327	0	0	82	105
Alabama	1,596	1,751	-8.8%	1,596	1,751	0	0	0	0	0	0
Kentucky	2,829	3,439	-18.0%	2,829	3,439	0	0	0	0	0	0
Mississippi	435	532	-18.0%	251	205	183	327	0	0	0	0
Tennessee	939	1,073	-12.0%	857	967	0	0	0	0	82	105
West South Central	11,307	11,126	1.6%	5,684	5,379	5,573	5,741	0	0	49	5
Arkansas	1,380	1,009	37.0%	1,182	806	195	197	0	0	4	5
Louisiana	654	476	38.0%	378	378	276	98	0	0	0	0
Oklahoma	1,143	1,178	-3.0%	989	1,081	109	98	0	0	46	0
Texas	8,129	8,462	-3.9%	3,136	3,114	4,993	5,348	0	0	0	0
Mountain	9,158	8,860	3.4%	8,051	7,817	1,084	995	0	0	22	49
Arizona	1,618	1,598	1.2%	1,618	1,598	0	0	0	0	0	0
Colorado	1,597	1,613	-0.9%	1,597	1,613	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	965	935	3.3%	23	0	942	935	0	0	0	0
Nevada	183	109	68.0%	121	49	61	60	0	0	0	0
New Mexico	1,178	851	38.0%	1,178	851	0	0	0	0	0	0
Utah	1,098	1,286	-15.0%	1,040	1,238	36	0	0	0	22	49
Wyoming	2,519	2,468	2.0%	2,474	2,468	45	0	0	0	0	0
Pacific Contiguous	611	530	15.0%	125	127	431	349	0	0	55	55
California	55	55	0.4%	0	0	0	0	0	0	55	55
Oregon	125	127	-1.5%	125	127	0	0	0	0	0	0
Washington	431	349	24.0%	0	0	431	349	0	0	0	0
Pacific Noncontiguous	78	76	3.2%	17	16	61	60	0	0	0	0
Alaska	17	16	8.2%	17	16	0	0	0	0	0	0
Hawaii	61	60	1.8%	0	0	61	60	0	0	0	0
U.S. Total	61,134	63,867	-4.3%	45,611	47,289	14,784	15,952	0	4	738	622

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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) August 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	173	886	-80.0%	45	102	128	775	0	0	0	10
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	41	54	-23.0%	0	0	41	44	0	0	0	10
Massachusetts	87	646	-87.0%	0	0	87	646	0	0	0	0
New Hampshire	45	102	-56.0%	45	102	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,796	13,207	4.5%	62	0	13,499	12,944	0	0	235	262
New Jersey	423	423	0.1%	0	0	423	423	0	0	0	0
New York	244	330	-26.0%	0	0	97	143	0	0	147	186
Pennsylvania	13,129	12,454	5.4%	62	0	12,979	12,378	0	0	88	76
East North Central	90,984	88,914	2.3%	55,658	52,527	34,017	34,817	0	0	1,310	1,569
Illinois	27,051	25,090	7.8%	5,424	4,970	20,378	18,983	0	0	1,249	1,138
Indiana	19,134	19,157	-0.1%	18,163	17,922	971	1,235	0	0	0	0
Michigan	14,875	13,120	13.0%	14,724	12,967	143	143	0	0	7	10
Ohio	17,011	19,869	-14.0%	4,486	5,263	12,525	14,457	0	0	0	150
Wisconsin	12,913	11,677	11.0%	12,860	11,406	0	0	0	0	53	271
West North Central	75,534	75,308	0.3%	73,302	74,423	0	0	15	23	2,217	862
Iowa	9,767	11,179	-13.0%	8,306	10,318	0	0	0	0	1,461	862
Kansas	7,484	9,031	-17.0%	7,484	9,031	0	0	0	0	0	0
Minnesota	8,253	7,389	12.0%	8,002	7,389	0	0	0	0	251	0
Missouri	24,741	23,442	5.5%	24,726	23,419	0	0	15	23	0	0
Nebraska	8,956	8,489	5.5%	8,451	8,489	0	0	0	0	505	0
North Dakota	15,417	14,866	3.7%	15,417	14,866	0	0	0	0	0	0
South Dakota	915	911	0.4%	915	911	0	0	0	0	0	0
South Atlantic	60,905	61,815	-1.5%	53,685	54,216	6,530	7,004	0	0	690	596
Delaware	200	184	8.4%	0	0	200	184	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	10,693	9,733	9.9%	10,552	9,507	26	226	0	0	115	0
Georgia	11,537	10,995	4.9%	11,468	10,903	0	0	0	0	68	93
Maryland	2,529	3,007	-16.0%	0	0	2,398	2,854	0	0	131	154
North Carolina	9,358	7,084	32.0%	9,117	7,084	34	0	0	0	207	0
South Carolina	4,572	5,912	-23.0%	4,554	5,837	0	0	0	0	19	74
Virginia	4,119	5,276	-22.0%	3,698	4,786	270	284	0	0	150	206
West Virginia	17,898	19,624	-8.8%	14,295	16,100	3,603	3,455	0	0	0	69
East South Central	42,657	43,185	-1.2%	40,185	40,270	1,822	2,051	0	0	649	864
Alabama	10,773	10,769	0.0%	10,773	10,769	0	0	0	0	0	0
Kentucky	22,823	23,972	-4.8%	22,823	23,972	0	0	0	0	0	0
Mississippi	2,800	2,627	6.6%	978	576	1,822	2,051	0	0	0	0
Tennessee	6,261	5,818	7.6%	5,612	4,953	0	0	0	0	649	864
West South Central	79,337	64,858	22.0%	35,806	31,641	43,226	33,177	0	0	305	40
Arkansas	8,572	7,919	8.2%	7,787	6,545	737	1,333	0	0	48	40
Louisiana	5,655	4,211	34.0%	3,426	3,264	2,229	947	0	0	0	0
Oklahoma	5,944	6,528	-8.9%	5,003	5,838	684	690	0	0	258	0
Texas	59,166	46,200	28.0%	19,590	15,993	39,576	30,207	0	0	0	0
Mountain	59,088	56,281	5.0%	52,738	50,530	6,280	5,564	0	0	71	187
Arizona	10,624	9,340	14.0%	10,624	9,340	0	0	0	0	0	0
Colorado	10,761	10,211	5.4%	10,761	10,211	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5,447	5,240	3.9%	185	0	5,262	5,240	0	0	0	0
Nevada	576	577	-0.1%	182	253	394	324	0	0	0	0
New Mexico	7,577	6,847	11.0%	7,577	6,847	0	0	0	0	0	0
Utah	8,161	8,622	-5.3%	7,818	8,435	271	0	0	0	71	187
Wyoming	15,942	15,443	3.2%	15,590	15,443	352	0	0	0	0	0
Pacific Contiguous	2,591	2,612	-0.8%	289	626	1,895	1,548	0	0	406	438
California	406	438	-7.3%	0	0	0	0	0	0	406	438
Oregon	289	626	-54.0%	289	626	0	0	0	0	0	0
Washington	1,895	1,548	22.0%	0	0	1,895	1,548	0	0	0	0
Pacific Noncontiguous	590	678	-13.0%	106	138	484	539	0	0	0	0
Alaska	106	138	-24.0%	106	138	0	0	0	0	0	0
Hawaii	484	539	-10.0%	0	0	484	539	0	0	0	0
U.S. Total	425,654	407,743	4.4%	311,876	304,473	107,880	98,420	15	23	5,883	4,827

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	1	33	-98.0%	0	1	1	32	0	0	0	0
Connecticut	0	1	-87.0%	0	0	0	1	0	0	0	0
Maine	0	1	-75.0%	0	0	0	1	0	0	0	0
Massachusetts	0	30	-100.0%	0	0	0	30	0	0	0	0
New Hampshire	0	1	-100.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	44	82	-46.0%	0	33	38	48	0	0	6	1
New Jersey	0	1	-48.0%	0	0	0	1	0	0	0	0
New York	1	47	-97.0%	0	33	1	13	0	0	0	1
Pennsylvania	42	35	22.0%	0	0	37	34	0	0	6	0
East North Central	65	85	-23.0%	37	52	27	32	0	0	0	1
Illinois	5	8	-37.0%	1	1	5	8	0	0	0	0
Indiana	10	20	-48.0%	10	20	0	0	0	0	0	0
Michigan	14	16	-12.0%	14	15	0	0	0	0	0	0
Ohio	33	31	5.7%	10	6	23	24	0	0	0	1
Wisconsin	3	10	-73.0%	3	10	0	0	0	0	0	0
West North Central	23	14	65.0%	23	14	0	0	0	0	0	0
Iowa	8	2	235.0%	8	2	0	0	0	0	0	0
Kansas	7	0	--	7	0	0	0	0	0	0	0
Minnesota	4	2	141.0%	4	2	0	0	0	0	0	0
Missouri	5	7	-38.0%	5	7	0	0	0	0	0	0
Nebraska	0	1	-100.0%	0	1	0	0	0	0	0	0
North Dakota	1	2	-66.0%	1	2	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	136	418	-67.0%	108	352	16	61	0	0	11	5
Delaware	2	2	1.2%	0	0	2	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	40	228	-83.0%	37	228	0	0	0	0	3	0
Georgia	14	12	17.0%	11	11	0	0	0	0	3	1
Maryland	13	46	-71.0%	0	0	13	46	0	0	0	0
North Carolina	13	24	-47.0%	10	24	0	0	0	0	3	0
South Carolina	17	11	51.0%	16	9	0	0	0	0	1	2
Virginia	16	74	-78.0%	14	59	1	13	0	0	0	2
West Virginia	21	21	0.7%	21	21	0	0	0	0	0	0
East South Central	27	32	-14.0%	27	30	0	0	0	0	0	2
Alabama	5	2	167.0%	5	2	0	0	0	0	0	0
Kentucky	11	12	-4.0%	11	12	0	0	0	0	0	0
Mississippi	1	2	-57.0%	1	2	0	0	0	0	0	0
Tennessee	10	16	-36.0%	10	14	0	0	0	0	0	2
West South Central	12	18	-29.0%	9	8	3	10	0	0	0	0
Arkansas	1	2	-62.0%	0	2	1	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	0.4%	1	1	0	0	0	0	0	0
Texas	11	15	-25.0%	9	5	2	10	0	0	0	0
Mountain	23	36	-37.0%	20	30	3	6	0	0	0	0
Arizona	5	8	-30.0%	5	8	0	0	0	0	0	0
Colorado	2	0	--	2	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	5	-71.0%	0	0	2	5	0	0	0	0
Nevada	2	2	-1.3%	1	1	1	1	0	0	0	0
New Mexico	8	8	-10.0%	8	8	0	0	0	0	0	0
Utah	1	1	43.0%	1	1	1	0	0	0	0	0
Wyoming	2	11	-80.0%	2	11	0	0	0	0	0	0
Pacific Contiguous	4	5	-20.0%	3	3	1	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	3	3	-13.0%	3	3	0	0	0	0	0	0
Washington	1	1	-40.0%	0	0	1	1	0	0	0	0
Pacific Noncontiguous	801	757	5.8%	610	567	191	190	0	0	0	0
Alaska	0	0	-100.0%	0	0	0	0	0	0	0	0
Hawaii	801	757	5.9%	610	567	191	190	0	0	0	0
U.S. Total	1,136	1,479	-23.0%	838	1,089	280	380	0	0	18	10

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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) August 2017 and 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	197	234	-16.0%	9	73	188	158	0	0	0	3
Connecticut	22	27	-19.0%	0	0	22	27	0	0	0	0
Maine	87	18	374.0%	0	0	87	15	0	0	0	3
Massachusetts	78	173	-55.0%	0	65	78	108	0	0	0	0
New Hampshire	9	7	28.0%	9	7	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	531	501	5.9%	172	49	298	441	0	0	60	10
New Jersey	3	9	-63.0%	0	0	3	9	0	0	0	0
New York	277	247	12.0%	172	49	87	190	0	0	18	7
Pennsylvania	250	245	2.0%	0	0	208	242	0	0	42	3
East North Central	500	644	-22.0%	294	356	190	267	0	0	16	21
Illinois	57	87	-34.0%	3	3	54	84	0	0	0	0
Indiana	126	133	-5.2%	126	133	0	0	0	0	0	0
Michigan	82	125	-35.0%	74	120	0	0	0	0	8	6
Ohio	208	262	-21.0%	64	64	136	183	0	0	9	15
Wisconsin	27	36	-25.0%	27	36	0	0	0	0	0	0
West North Central	257	224	15.0%	257	224	0	0	0	0	0	0
Iowa	65	58	13.0%	65	58	0	0	0	0	0	0
Kansas	57	26	117.0%	57	26	0	0	0	0	0	0
Minnesota	21	16	33.0%	21	16	0	0	0	0	0	0
Missouri	52	74	-31.0%	52	74	0	0	0	0	0	0
Nebraska	1	3	-68.0%	1	3	0	0	0	0	0	0
North Dakota	55	44	26.0%	55	44	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	2,219	2,828	-22.0%	1,915	2,236	212	443	0	0	93	149
Delaware	13	49	-73.0%	0	0	13	49	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,322	811	63.0%	1,300	806	0	5	0	0	22	0
Georgia	126	199	-37.0%	100	131	3	31	0	0	23	38
Maryland	135	169	-20.0%	0	0	135	169	0	0	0	0
North Carolina	184	221	-17.0%	161	160	1	61	0	0	22	0
South Carolina	86	207	-59.0%	71	114	0	0	0	0	14	93
Virginia	230	1,027	-78.0%	158	880	59	129	0	0	12	18
West Virginia	124	145	-15.0%	124	145	0	0	0	0	0	0
East South Central	260	321	-19.0%	251	304	4	10	0	0	5	6
Alabama	34	53	-36.0%	30	42	4	10	0	0	0	0
Kentucky	116	128	-9.1%	116	128	0	0	0	0	0	0
Mississippi	11	20	-43.0%	11	20	0	0	0	0	0	0
Tennessee	98	120	-18.0%	93	114	0	0	0	0	5	6
West South Central	153	192	-20.0%	65	139	89	52	0	0	0	0
Arkansas	59	47	25.0%	18	35	41	12	0	0	0	0
Louisiana	0	50	-100.0%	0	48	0	2	0	0	0	0
Oklahoma	4	4	8.2%	4	4	0	0	0	0	0	0
Texas	90	90	0.1%	42	53	48	38	0	0	0	0
Mountain	228	241	-5.5%	207	221	21	20	0	0	0	0
Arizona	48	67	-28.0%	48	67	0	0	0	0	0	0
Colorado	3	10	-67.0%	3	10	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	13	17	-24.0%	0	0	13	17	0	0	0	0
Nevada	13	18	-23.0%	9	14	5	3	0	0	0	0
New Mexico	47	62	-24.0%	47	62	0	0	0	0	0	0
Utah	46	17	171.0%	43	17	3	0	0	0	0	0
Wyoming	57	51	12.0%	57	51	0	0	0	0	0	0
Pacific Contiguous	26	13	97.0%	14	3	13	10	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	13	10	29.0%	0	0	13	10	0	0	0	0
Pacific Noncontiguous	5,735	5,851	-2.0%	4,458	4,599	1,277	1,252	0	0	0	0
Alaska	1	4	-76.0%	1	4	0	0	0	0	0	0
Hawaii	5,734	5,847	-1.9%	4,457	4,595	1,277	1,252	0	0	0	0
U.S. Total	10,105	11,049	-8.5%	7,641	8,204	2,290	2,656	0	0	174	189

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 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	54	110	-50.0%	54	55	0	55	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	46	4.5%	48	46	0	0	0	0	0	0
Ohio	0	55	-100.0%	0	0	0	55	0	0	0	0
Wisconsin	7	9	-26.0%	7	9	0	0	0	0	0	0
West North Central	11	0	--	0	0	0	0	0	0	11	0
Iowa	11	0	--	0	0	0	0	0	0	11	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	77	132	-41.0%	77	124	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	77	124	-38.0%	77	124	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	142	157	-9.6%	142	157	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	142	157	-9.6%	142	157	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	284	398	-29.0%	273	335	0	55	0	0	11	8

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 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	348	717	-51.0%	348	417	0	281	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	320	227	41.0%	320	227	0	0	0	0	0	0
Ohio	0	281	-100.0%	0	0	0	281	0	0	0	0
Wisconsin	28	47	-41.0%	28	29	0	0	0	0	0	18
West North Central	29	0	--	0	0	0	0	0	0	29	0
Iowa	29	0	--	0	0	0	0	0	0	29	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	447	1,041	-57.0%	447	963	0	0	0	0	0	78
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	447	963	-54.0%	447	963	0	0	0	0	0	0
Georgia	0	78	-100.0%	0	0	0	0	0	0	0	78
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	117	47	148.0%	117	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	117	47	148.0%	117	47	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,234	975	26.0%	1,234	975	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,234	975	26.0%	1,234	975	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	2,175	2,781	-22.0%	2,145	2,403	0	281	0	0	29	96

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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, August 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	28,841	45,695	-37.0%	221	642	28,620	45,053	0	0	0	0
Connecticut	10,009	11,645	-14.0%	0	0	10,009	11,645	0	0	0	0
Maine	2	3,579	-100.0%	0	0	2	3,579	0	0	0	0
Massachusetts	13,836	20,250	-32.0%	168	528	13,669	19,722	0	0	0	0
New Hampshire	3,470	4,585	-24.0%	54	114	3,416	4,471	0	0	0	0
Rhode Island	1,525	5,637	-73.0%	0	0	1,525	5,637	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	90,300	152,156	-41.0%	8,582	15,205	81,510	136,743	0	0	208	209
New Jersey	12,630	38,991	-68.0%	0	0	12,630	38,991	0	0	0	0
New York	35,159	58,248	-40.0%	8,582	15,205	26,519	42,980	0	0	58	63
Pennsylvania	42,511	54,918	-23.0%	0	0	42,361	54,772	0	0	150	146
East North Central	57,227	99,038	-42.0%	22,339	47,486	33,400	50,353	613	627	875	572
Illinois	5,076	19,195	-74.0%	9	2,371	5,064	16,821	0	0	3	4
Indiana	9,844	14,811	-34.0%	7,728	12,415	2,116	2,396	0	0	0	0
Michigan	16,675	28,819	-42.0%	3,947	13,995	11,686	13,836	613	627	429	362
Ohio	17,985	22,665	-21.0%	4,179	7,066	13,496	15,509	0	0	309	91
Wisconsin	7,648	13,547	-44.0%	6,477	11,640	1,038	1,792	0	0	133	116
West North Central	5,586	23,368	-76.0%	4,837	19,264	30	3,966	166	138	553	0
Iowa	3,217	4,168	-23.0%	2,664	4,168	0	0	0	0	552	0
Kansas	1,533	2,257	-32.0%	1,533	2,257	0	0	0	0	0	0
Minnesota	63	9,525	-99.0%	32	7,404	30	2,119	0	2	1	0
Missouri	461	5,868	-92.0%	296	3,885	0	1,847	165	136	0	0
Nebraska	244	627	-61.0%	244	627	0	0	0	0	0	0
North Dakota	67	237	-72.0%	67	237	0	0	0	0	0	0
South Dakota	0	686	-100.0%	0	686	0	0	0	0	0	0
South Atlantic	219,929	263,026	-16.0%	185,256	206,789	31,971	52,897	0	0	2,702	3,340
Delaware	3,178	7,660	-59.0%	0	0	3,178	6,505	0	0	0	1,156
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	113,475	118,218	-4.0%	111,867	109,290	1,440	8,928	0	0	168	0
Georgia	31,798	42,198	-25.0%	24,998	31,982	6,100	9,531	0	0	700	685
Maryland	3,731	9,970	-63.0%	0	0	3,671	9,795	0	0	59	175
North Carolina	23,889	29,945	-20.0%	20,624	24,810	3,038	5,135	0	0	227	0
South Carolina	10,585	14,446	-27.0%	8,958	12,003	1,539	2,318	0	0	88	125
Virginia	31,403	39,400	-20.0%	18,711	28,356	11,951	10,359	0	0	741	685
West Virginia	1,871	1,189	57.0%	98	348	1,054	326	0	0	719	515
East South Central	77,624	98,888	-22.0%	49,398	63,186	26,571	34,554	0	0	1,655	1,149
Alabama	35,001	41,237	-15.0%	11,316	10,397	23,686	30,840	0	0	0	0
Kentucky	5,246	7,488	-30.0%	4,866	6,248	381	1,240	0	0	0	0
Mississippi	29,353	38,600	-24.0%	26,848	36,126	2,505	2,474	0	0	0	0
Tennessee	8,024	11,564	-31.0%	6,369	10,415	0	0	0	0	1,655	1,149
West South Central	231,902	303,943	-24.0%	56,418	98,367	131,011	151,334	0	0	44,473	54,243
Arkansas	7,057	15,856	-55.0%	1	5,499	6,890	10,171	0	0	166	186
Louisiana	40,555	50,045	-19.0%	21,615	28,781	2,724	2,661	0	0	16,216	18,602
Oklahoma	25,227	29,445	-14.0%	13,855	21,053	11,112	8,392	0	0	260	0
Texas	159,063	208,597	-24.0%	20,947	43,033	110,285	130,109	0	0	27,831	35,455
Mountain	74,954	81,928	-8.5%	60,424	59,651	14,478	22,223	0	0	52	54
Arizona	31,208	36,059	-13.0%	20,420	18,974	10,788	17,086	0	0	0	0
Colorado	10,289	9,471	8.6%	8,911	8,107	1,378	1,364	0	0	0	0
Idaho	0	3,106	-100.0%	0	1,898	0	1,208	0	0	0	0
Montana	387	0	--	387	0	0	0	0	0	0	0
Nevada	20,773	20,231	2.7%	20,773	20,231	0	0	0	0	0	0
New Mexico	6,656	7,420	-10.0%	4,555	5,039	2,100	2,380	0	0	0	0
Utah	5,455	5,638	-3.2%	5,194	5,400	209	185	0	0	52	54
Wyoming	186	3	NM	183	3	3	0	0	0	0	0
Pacific Contiguous	84,062	93,330	-9.9%	30,604	37,610	50,853	51,992	0	0	2,604	3,728
California	71,085	69,056	2.9%	24,477	23,333	44,004	41,996	0	0	2,604	3,728
Oregon	8,726	14,137	-38.0%	1,876	8,072	6,849	6,065	0	0	0	0
Washington	4,251	10,136	-58.0%	4,251	6,206	0	3,931	0	0	0	0
Pacific Noncontiguous	40	1,000	-96.0%	40	1,000	0	0	0	0	0	0
Alaska	40	1,000	-96.0%	40	1,000	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	870,465	1,162,373	-25.0%	418,121	549,200	398,444	549,115	778	765	53,122	63,294

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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) August 2017 and 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	183,115	265,180	-31.0%	841	1,707	182,274	263,473	0	0	0	0
Connecticut	65,086	81,059	-20.0%	0	0	65,086	81,059	0	0	0	0
Maine	24	17,016	-100.0%	0	0	24	17,016	0	0	0	0
Massachusetts	90,933	111,088	-18.0%	546	1,289	90,387	109,799	0	0	0	0
New Hampshire	17,732	22,320	-21.0%	295	418	17,437	21,902	0	0	0	0
Rhode Island	9,341	33,696	-72.0%	0	0	9,341	33,696	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	578,036	833,377	-31.0%	56,917	74,934	518,887	756,853	0	0	2,233	1,590
New Jersey	99,801	215,838	-54.0%	0	0	99,801	215,838	0	0	0	0
New York	219,443	298,752	-27.0%	56,917	74,934	161,723	223,240	0	0	803	579
Pennsylvania	258,792	318,787	-19.0%	0	0	257,363	317,776	0	0	1,429	1,012
East North Central	393,972	602,930	-35.0%	149,708	273,575	231,341	318,489	3,927	4,383	8,996	6,482
Illinois	44,311	96,937	-54.0%	148	9,398	44,133	87,515	0	0	30	24
Indiana	71,695	100,928	-29.0%	58,822	82,028	12,872	18,900	0	0	0	0
Michigan	118,039	170,755	-31.0%	25,490	63,154	84,786	99,381	3,927	4,383	3,836	3,836
Ohio	118,174	145,932	-19.0%	32,155	40,928	82,764	104,607	0	0	3,255	396
Wisconsin	41,753	88,379	-53.0%	33,093	78,067	6,785	8,086	0	0	1,875	2,226
West North Central	29,300	124,598	-76.0%	25,617	103,766	312	19,747	956	1,078	2,415	8
Iowa	11,648	21,103	-45.0%	9,338	21,095	0	0	0	0	2,310	8
Kansas	10,296	11,527	-11.0%	10,296	11,527	0	0	0	0	0	0
Minnesota	772	50,208	-98.0%	351	40,057	312	10,145	5	5	104	0
Missouri	3,992	33,288	-88.0%	3,041	22,613	0	9,602	951	1,073	0	0
Nebraska	1,636	2,993	-45.0%	1,636	2,993	0	0	0	0	0	0
North Dakota	956	1,176	-19.0%	956	1,176	0	0	0	0	0	0
South Dakota	0	4,305	-100.0%	0	4,305	0	0	0	0	0	0
South Atlantic	1,429,383	1,675,234	-15.0%	1,209,931	1,346,102	197,050	304,058	0	0	22,403	25,075
Delaware	21,392	43,582	-51.0%	0	0	21,392	34,381	0	0	0	9,201
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	718,909	803,366	-11.0%	707,685	739,153	9,801	64,212	0	0	1,424	0
Georgia	208,018	279,263	-26.0%	162,253	208,706	39,641	64,170	0	0	6,124	6,387
Maryland	25,319	37,955	-33.0%	0	0	23,858	36,480	0	0	1,461	1,475
North Carolina	170,877	204,541	-16.0%	149,451	178,031	20,407	26,510	0	0	1,018	0
South Carolina	74,200	85,359	-13.0%	63,508	69,415	10,033	14,627	0	0	659	1,317
Virginia	201,032	212,715	-5.5%	126,031	149,616	68,705	57,973	0	0	6,296	5,125
West Virginia	9,637	8,453	14.0%	1,003	1,180	3,213	5,704	0	0	5,421	1,569
East South Central	519,743	639,829	-19.0%	345,081	421,589	162,518	211,385	0	0	12,144	6,855
Alabama	220,873	265,431	-17.0%	78,925	77,079	141,947	188,352	0	0	0	0
Kentucky	34,667	47,340	-27.0%	32,446	42,944	2,221	4,396	0	0	0	0
Mississippi	205,427	259,241	-21.0%	187,077	240,604	18,350	18,636	0	0	0	0
Tennessee	58,777	67,817	-13.0%	46,633	60,961	0	0	0	0	12,144	6,855
West South Central	1,447,377	2,016,141	-28.0%	326,136	627,898	767,280	975,873	0	0	353,961	412,371
Arkansas	51,210	98,659	-48.0%	40	37,619	49,881	59,413	0	0	1,288	1,627
Louisiana	288,301	377,259	-24.0%	134,025	196,545	22,926	37,747	0	0	131,349	142,968
Oklahoma	140,828	193,632	-27.0%	83,267	137,285	56,240	56,347	0	0	1,321	0
Texas	967,038	1,346,591	-28.0%	108,804	256,449	638,233	822,367	0	0	220,002	267,776
Mountain	406,430	487,830	-17.0%	331,528	381,418	74,398	105,894	0	0	504	518
Arizona	147,366	183,333	-20.0%	99,656	111,281	47,710	72,052	0	0	0	0
Colorado	61,403	66,549	-7.7%	52,283	55,902	9,120	10,647	0	0	0	0
Idaho	0	14,898	-100.0%	0	9,364	0	5,534	0	0	0	0
Montana	2,098	0	--	2,098	0	0	0	0	0	0	0
Nevada	121,353	133,596	-9.2%	121,353	133,596	0	0	0	0	0	0
New Mexico	47,005	50,107	-6.2%	30,430	33,247	16,574	16,860	0	0	0	0
Utah	26,502	39,316	-33.0%	25,017	37,996	981	802	0	0	504	518
Wyoming	703	32	NM	690	32	13	0	0	0	0	0
Pacific Contiguous	402,826	497,307	-19.0%	155,327	193,425	225,032	276,948	0	0	22,467	26,935
California	354,266	386,338	-8.3%	133,126	135,645	198,674	223,758	0	0	22,467	26,935
Oregon	33,025	65,778	-50.0%	6,666	30,578	26,359	35,200	0	0	0	0
Washington	15,536	45,192	-66.0%	15,536	27,202	0	17,990	0	0	0	0
Pacific Noncontiguous	898	8,927	-90.0%	898	8,927	0	0	0	0	0	0
Alaska	898	8,927	-90.0%	898	8,927	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,391,080	7,151,353	-25.0%	2,601,984	3,433,339	2,359,092	3,232,720	4,883	5,461	425,121	479,833

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016
New England	W	W	W	--	4.07	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	4.07	--	--	4.07	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.90	2.00	-5.0%	1.66	--	1.91	2.00
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	W	1.95	W	1.66	--	W	1.95
East North Central	2.00	2.08	-3.8%	2.07	2.17	1.88	1.93
Illinois	1.79	W	W	1.87	1.97	1.77	W
Indiana	W	W	W	2.11	2.25	W	W
Michigan	2.10	W	W	2.10	2.23	--	W
Ohio	W	2.02	W	1.71	1.88	W	2.08
Wisconsin	2.20	2.23	-1.3%	2.20	2.23	--	--
West North Central	1.74	1.72	1.2%	1.74	1.72	--	--
Iowa	1.68	1.60	5.0%	1.68	1.60	--	--
Kansas	1.70	1.80	-5.6%	1.70	1.80	--	--
Minnesota	2.06	2.04	1.0%	2.06	2.04	--	--
Missouri	1.86	1.86	0.0%	1.86	1.86	--	--
Nebraska	1.35	1.36	-0.7%	1.35	1.36	--	--
North Dakota	1.56	1.43	9.1%	1.56	1.43	--	--
South Dakota	2.20	2.21	-0.5%	2.20	2.21	--	--
South Atlantic	2.68	2.77	-3.2%	2.71	2.80	2.43	2.50
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.93	3.06	W	W
Georgia	2.76	2.75	0.4%	2.76	2.75	--	--
Maryland	2.48	2.99	-17.0%	--	--	2.48	2.99
North Carolina	W	3.12	W	2.94	3.12	W	--
South Carolina	3.29	3.08	6.8%	3.29	3.08	--	--
Virginia	W	W	W	2.78	2.86	W	W
West Virginia	W	W	W	2.15	2.31	W	W
East South Central	W	W	W	2.13	2.21	W	W
Alabama	2.21	2.38	-7.1%	2.21	2.38	--	--
Kentucky	2.01	2.10	-4.3%	2.01	2.10	--	--
Mississippi	W	W	W	2.70	2.65	W	W
Tennessee	2.26	2.24	0.9%	2.26	2.24	--	--
West South Central	1.99	1.88	5.9%	2.02	2.13	1.95	1.63
Arkansas	W	W	W	1.93	2.24	W	W
Louisiana	W	W	W	2.31	2.77	W	W
Oklahoma	W	W	W	1.78	1.91	W	W
Texas	2.00	1.79	12.0%	2.10	2.10	1.94	1.60
Mountain	W	W	W	1.94	1.94	W	W
Arizona	2.14	2.09	2.4%	2.14	2.09	--	--
Colorado	1.70	1.90	-11.0%	1.70	1.90	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.81	--	W	W
Nevada	W	W	W	3.09	2.10	W	W
New Mexico	2.16	1.80	20.0%	2.16	1.80	--	--
Utah	1.97	1.93	2.1%	1.97	1.93	--	--
Wyoming	W	1.92	W	1.76	1.92	W	--
Pacific Contiguous	W	W	W	2.28	2.33	W	W
California	--	--	--	--	--	--	--
Oregon	2.28	2.33	-2.1%	2.28	2.33	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.17	3.07	W	W
Alaska	3.17	3.07	3.3%	3.17	3.07	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.07	2.10	-1.4%	2.11	2.17	1.94	1.90

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	W	3.03	W	4.34	4.04	W	2.88
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	4.04	7.4%	4.34	4.04	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.98	2.03	-2.5%	1.66	--	1.98	2.03
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.91	1.97	-3.0%	1.66	--	1.92	1.97
East North Central	2.03	2.09	-2.9%	2.11	2.17	1.89	1.97
Illinois	1.80	W	W	1.85	2.01	1.78	W
Indiana	W	W	W	2.17	2.24	W	W
Michigan	W	W	W	2.16	2.25	W	W
Ohio	W	2.06	W	1.73	1.90	W	2.12
Wisconsin	2.26	2.19	3.2%	2.26	2.19	--	--
West North Central	1.76	1.72	2.3%	1.76	1.72	--	--
Iowa	1.69	1.61	5.0%	1.69	1.61	--	--
Kansas	1.72	1.71	0.6%	1.72	1.71	--	--
Minnesota	2.09	2.07	1.0%	2.09	2.07	--	--
Missouri	1.87	1.86	0.5%	1.87	1.86	--	--
Nebraska	1.37	1.34	2.2%	1.37	1.34	--	--
North Dakota	1.62	1.54	5.2%	1.62	1.54	--	--
South Dakota	2.26	2.23	1.3%	2.26	2.23	--	--
South Atlantic	2.70	2.76	-2.2%	2.72	2.79	2.50	2.50
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.95	3.04	W	W
Georgia	2.76	2.84	-2.8%	2.76	2.84	--	--
Maryland	2.74	2.81	-2.5%	--	--	2.74	2.81
North Carolina	W	3.09	W	2.96	3.09	W	--
South Carolina	3.28	3.20	2.5%	3.28	3.20	--	--
Virginia	W	W	W	2.74	2.90	W	W
West Virginia	W	W	W	2.21	2.32	W	W
East South Central	W	W	W	2.09	2.22	W	W
Alabama	2.18	2.43	-10.0%	2.18	2.43	--	--
Kentucky	1.98	2.12	-6.6%	1.98	2.12	--	--
Mississippi	W	W	W	2.78	2.63	W	W
Tennessee	2.26	2.22	1.8%	2.26	2.22	--	--
West South Central	1.98	1.90	4.2%	2.09	2.16	1.87	1.64
Arkansas	W	W	W	2.09	2.22	W	W
Louisiana	W	W	W	2.36	2.78	W	W
Oklahoma	W	W	W	1.85	1.91	W	W
Texas	1.94	1.78	9.0%	2.12	2.10	1.85	1.60
Mountain	W	W	W	1.91	1.90	W	W
Arizona	2.24	2.14	4.7%	2.24	2.14	--	--
Colorado	1.80	1.89	-4.8%	1.80	1.89	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.75	--	W	W
Nevada	W	W	W	3.08	1.98	W	W
New Mexico	1.98	1.81	9.4%	1.98	1.81	--	--
Utah	1.96	1.95	0.5%	1.96	1.95	--	--
Wyoming	W	1.75	W	1.67	1.75	W	--
Pacific Contiguous	W	W	W	2.35	2.30	W	W
California	--	--	--	--	--	--	--
Oregon	2.35	2.30	2.2%	2.35	2.30	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.07	3.11	W	W
Alaska	3.07	3.11	-1.3%	3.07	3.11	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.09	2.12	-1.4%	2.13	2.17	1.95	1.95

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016
New England	10.65	W	W	--	10.15	10.65	W
Connecticut	W	10.74	W	--	--	W	10.74
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	10.15	--	--	10.15	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.54	11.28	11.0%	--	10.99	12.54	11.48
New Jersey	W	W	W	--	--	W	W
New York	W	11.81	W	--	10.99	W	13.75
Pennsylvania	12.54	W	W	--	--	12.54	W
East North Central	13.09	11.09	18.0%	13.02	11.25	13.20	10.85
Illinois	13.11	11.55	14.0%	13.02	11.65	13.12	11.54
Indiana	12.97	11.13	17.0%	12.97	11.13	--	--
Michigan	12.41	11.24	10.0%	12.41	11.24	--	--
Ohio	13.47	10.80	25.0%	14.08	11.48	13.21	10.62
Wisconsin	12.39	11.31	9.5%	12.39	11.31	--	--
West North Central	12.87	11.21	15.0%	12.87	11.21	--	--
Iowa	12.94	11.07	17.0%	12.94	11.07	--	--
Kansas	12.89	--	--	12.89	--	--	--
Minnesota	12.67	11.62	9.0%	12.67	11.62	--	--
Missouri	12.80	11.76	8.8%	12.80	11.76	--	--
Nebraska	--	11.37	--	--	11.37	--	--
North Dakota	13.48	9.11	48.0%	13.48	9.11	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	12.41	8.46	47.0%	12.45	8.10	12.11	10.74
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.96	7.46	74.0%	12.96	7.46	--	--
Georgia	12.30	10.53	17.0%	12.30	10.53	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	12.55	11.06	13.0%	12.55	11.06	--	--
South Carolina	12.76	11.96	6.7%	12.76	11.96	--	--
Virginia	W	W	W	11.27	7.18	W	W
West Virginia	12.18	12.08	0.8%	12.18	12.08	--	--
East South Central	12.53	11.25	11.0%	12.53	11.25	--	--
Alabama	13.15	12.67	3.8%	13.15	12.67	--	--
Kentucky	12.68	11.47	11.0%	12.68	11.47	--	--
Mississippi	11.87	9.98	19.0%	11.87	9.98	--	--
Tennessee	12.14	11.11	9.3%	12.14	11.11	--	--
West South Central	12.31	10.29	20.0%	12.19	10.30	12.67	10.28
Arkansas	W	W	W	--	10.15	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	13.51	12.60	7.2%	13.51	12.60	--	--
Texas	W	W	W	12.09	10.05	W	W
Mountain	14.00	W	W	14.04	11.84	13.73	W
Arizona	13.53	10.73	26.0%	13.53	10.73	--	--
Colorado	14.13	--	--	14.13	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	13.15	11.89	W	W
New Mexico	14.31	11.30	27.0%	14.31	11.30	--	--
Utah	W	11.25	W	15.33	11.25	W	--
Wyoming	14.23	13.04	9.1%	14.23	13.04	--	--
Pacific Contiguous	W	W	W	11.19	11.19	W	W
California	--	--	--	--	--	--	--
Oregon	11.19	11.19	0.0%	11.19	11.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.51	9.22	W	W
Alaska	--	14.41	--	--	14.41	--	--
Hawaii	W	W	W	10.51	9.21	W	W
U.S. Total	W	9.43	W	11.08	9.15	W	10.26

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	12.02	8.54	41.0%	13.97	9.59	11.92	8.03
Connecticut	W	9.15	W	--	--	W	9.15
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	9.59	W	W
New Hampshire	13.97	9.60	46.0%	13.97	9.60	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	11.03	W	9.22	10.12	W	11.13
New Jersey	W	W	W	--	--	W	W
New York	12.97	11.96	8.4%	9.22	10.12	20.56	12.40
Pennsylvania	W	W	W	--	--	W	W
East North Central	12.24	W	W	12.19	10.29	12.32	W
Illinois	12.53	10.51	19.0%	12.12	10.50	12.55	10.51
Indiana	12.03	10.13	19.0%	12.03	10.13	--	--
Michigan	11.77	10.10	17.0%	11.77	10.10	--	--
Ohio	12.52	W	W	13.15	10.29	12.23	W
Wisconsin	11.85	11.52	2.9%	11.85	11.52	--	--
West North Central	12.16	9.85	23.0%	12.16	9.85	--	--
Iowa	12.39	10.19	22.0%	12.39	10.19	--	--
Kansas	12.09	9.99	21.0%	12.09	9.99	--	--
Minnesota	12.09	10.64	14.0%	12.09	10.64	--	--
Missouri	12.14	10.03	21.0%	12.14	10.03	--	--
Nebraska	11.92	10.74	11.0%	11.92	10.74	--	--
North Dakota	12.02	8.83	36.0%	12.02	8.83	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.14	9.75	25.0%	12.16	9.75	11.92	9.75
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.34	W	W	12.34	11.61	--	W
Georgia	W	8.95	W	11.50	9.24	W	7.68
Maryland	10.85	8.86	22.0%	--	--	10.85	8.86
North Carolina	W	W	W	12.05	9.76	W	W
South Carolina	12.57	10.71	17.0%	12.57	10.71	--	--
Virginia	W	W	W	10.88	7.87	W	W
West Virginia	12.38	10.85	14.0%	12.38	10.85	--	--
East South Central	W	W	W	11.92	9.83	W	W
Alabama	W	W	W	12.69	9.38	W	W
Kentucky	11.97	10.07	19.0%	11.97	10.07	--	--
Mississippi	11.65	8.83	32.0%	11.65	8.83	--	--
Tennessee	11.66	9.90	18.0%	11.66	9.90	--	--
West South Central	12.20	10.05	21.0%	11.89	9.89	12.42	10.51
Arkansas	W	W	W	11.72	9.56	W	W
Louisiana	--	W	W	--	9.54	--	W
Oklahoma	13.01	12.05	8.0%	13.01	12.05	--	--
Texas	W	W	W	11.86	10.28	W	W
Mountain	13.33	W	W	13.33	10.86	13.29	W
Arizona	12.90	10.71	20.0%	12.90	10.71	--	--
Colorado	13.60	9.46	44.0%	13.60	9.46	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.15	11.79	W	W
New Mexico	12.94	10.61	22.0%	12.94	10.61	--	--
Utah	W	11.03	W	13.92	11.03	W	--
Wyoming	13.71	11.31	21.0%	13.71	11.31	--	--
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	10.72	8.08	W	W
Alaska	16.16	12.58	28.0%	16.16	12.58	--	--
Hawaii	W	W	W	10.72	8.07	W	W
U.S. Total	11.41	9.01	27.0%	11.26	8.85	11.94	9.54

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.47	W	W	1.47	1.35	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.43	1.28	12.0%	1.43	1.28	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.75	1.72	1.7%	1.75	1.72	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.45	1.89	30.0%	2.45	1.89	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.45	1.89	30.0%	2.45	1.89	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.16	1.50	44.0%	2.16	1.50	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.16	1.50	44.0%	2.16	1.50	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.11	W	W	2.11	1.62	--	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.48	W	W	1.48	1.19	--	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	1.70	5.3%	1.79	1.70	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.53	1.37	85.0%	2.53	1.37	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.53	1.37	85.0%	2.53	1.37	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.50	1.61	-6.8%	1.50	1.61	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.50	1.61	-6.8%	1.50	1.61	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.13	1.22	75.0%	2.13	1.22	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.13	1.22	75.0%	2.13	1.22	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.08	1.41	48.0%	2.08	1.28	--	2.50

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017	August 2016	Percentage Change	August 2017	August 2016	August 2017	August 2016
New England	2.54	3.10	-18.0%	3.13	3.71	2.53	3.09
Connecticut	W	3.02	W	--	--	W	3.02
Maine	W	W	W	--	--	W	W
Massachusetts	2.34	3.09	-24.0%	2.97	3.57	2.33	3.07
New Hampshire	W	W	W	3.63	4.35	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.19	2.02	8.4%	2.55	2.40	2.15	1.97
New Jersey	2.13	1.85	15.0%	--	--	2.13	1.85
New York	2.48	2.47	0.4%	2.55	2.40	2.46	2.50
Pennsylvania	1.96	1.62	21.0%	--	--	1.96	1.62
East North Central	2.92	2.91	0.3%	3.01	3.06	2.86	2.76
Illinois	W	2.98	W	3.41	3.07	W	2.96
Indiana	W	W	W	3.08	3.52	W	W
Michigan	3.12	2.99	4.3%	3.47	3.10	3.00	2.88
Ohio	2.59	2.41	7.5%	2.33	2.38	2.68	2.42
Wisconsin	3.11	W	W	3.11	2.95	--	W
West North Central	W	3.05	W	2.97	3.07	W	2.91
Iowa	2.63	2.78	-5.4%	2.63	2.78	--	--
Kansas	3.32	3.39	-2.1%	3.32	3.39	--	--
Minnesota	W	W	W	3.75	3.16	W	W
Missouri	3.05	W	W	3.05	3.06	--	W
Nebraska	3.38	3.24	4.3%	3.38	3.24	--	--
North Dakota	6.33	2.98	112.0%	6.33	2.98	--	--
South Dakota	--	2.77	--	--	2.77	--	--
South Atlantic	3.72	3.44	8.1%	3.83	3.53	2.83	2.83
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.85	W	4.13	3.86	W	3.32
Georgia	W	3.23	W	3.34	3.29	W	3.02
Maryland	3.11	2.87	8.4%	--	--	3.11	2.87
North Carolina	W	W	W	3.73	3.59	W	W
South Carolina	W	W	W	3.47	3.38	W	W
Virginia	2.79	W	W	3.02	2.62	2.26	W
West Virginia	W	W	W	2.61	2.46	W	W
East South Central	3.11	3.03	2.6%	3.09	3.03	3.16	3.03
Alabama	W	W	W	3.19	3.14	W	W
Kentucky	W	W	W	3.46	3.23	W	W
Mississippi	W	W	W	3.03	3.07	W	W
Tennessee	2.86	2.67	7.1%	2.86	2.67	--	--
West South Central	2.96	2.89	2.4%	3.05	2.98	2.92	2.83
Arkansas	W	W	W	2.88	3.39	W	W
Louisiana	W	W	W	3.18	3.06	W	W
Oklahoma	W	W	W	2.93	2.92	W	W
Texas	2.94	2.85	3.2%	3.00	2.90	2.93	2.83
Mountain	W	3.12	W	3.21	3.16	W	2.85
Arizona	W	W	W	3.40	3.36	W	W
Colorado	W	W	W	3.14	3.15	W	W
Idaho	--	2.89	--	--	2.89	--	--
Montana	1.47	--	--	1.47	--	--	--
Nevada	3.15	3.09	1.9%	3.15	3.09	--	--
New Mexico	3.33	3.11	7.1%	3.33	3.11	--	--
Utah	W	W	W	2.93	2.87	W	W
Wyoming	W	5.41	W	2.79	5.41	W	--
Pacific Contiguous	3.48	3.06	14.0%	3.72	3.16	3.26	2.97
California	W	3.33	W	3.96	3.65	W	3.13
Oregon	W	W	W	2.41	2.26	W	W
Washington	3.23	W	W	3.23	2.88	--	W
Pacific Noncontiguous	8.09	6.45	25.0%	8.09	6.45	--	--
Alaska	8.09	6.45	25.0%	8.09	6.45	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.16	2.96	6.8%	3.46	3.23	2.76	2.63

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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) August 2017 and 2016 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2017 YTD	August 2016 YTD	Percentage Change	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	W	3.09	W	3.40	3.49	W	3.09
Connecticut	W	3.59	W	--	--	W	3.59
Maine	W	W	W	--	--	W	W
Massachusetts	3.21	2.77	16.0%	3.16	3.37	3.22	2.76
New Hampshire	W	W	W	3.83	3.83	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.01	2.15	40.0%	3.56	2.58	2.93	2.10
New Jersey	2.92	2.05	42.0%	--	--	2.92	2.05
New York	3.41	2.56	33.0%	3.56	2.58	3.34	2.56
Pennsylvania	2.69	1.81	49.0%	--	--	2.69	1.81
East North Central	3.11	2.48	25.0%	3.14	2.62	3.08	2.36
Illinois	3.10	2.65	17.0%	3.98	2.88	3.10	2.62
Indiana	W	W	W	3.08	2.74	W	W
Michigan	3.20	2.54	26.0%	3.39	2.73	3.14	2.42
Ohio	2.95	2.10	40.0%	2.84	2.17	3.00	2.08
Wisconsin	W	W	W	3.37	2.61	W	W
West North Central	W	2.75	W	3.26	2.76	W	2.65
Iowa	2.72	2.49	9.2%	2.72	2.49	--	--
Kansas	3.58	3.21	12.0%	3.58	3.21	--	--
Minnesota	W	W	W	3.44	2.86	W	W
Missouri	3.08	W	W	3.08	2.67	--	W
Nebraska	3.77	3.00	26.0%	3.77	3.00	--	--
North Dakota	4.97	2.56	94.0%	4.97	2.56	--	--
South Dakota	--	2.28	--	--	2.28	--	--
South Atlantic	3.88	3.27	19.0%	3.96	3.38	3.18	2.52
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.63	W	4.14	3.65	W	2.67
Georgia	W	2.77	W	3.63	2.83	W	2.57
Maryland	W	2.89	W	--	--	W	2.89
North Carolina	W	W	W	4.00	3.56	W	W
South Carolina	W	W	W	3.52	3.16	W	W
Virginia	3.38	W	W	3.60	2.72	2.66	W
West Virginia	W	W	W	3.00	2.35	W	W
East South Central	3.27	2.63	24.0%	3.27	2.64	3.29	2.60
Alabama	W	W	W	3.41	2.70	W	W
Kentucky	W	W	W	3.70	2.94	W	W
Mississippi	W	W	W	3.18	2.62	W	W
Tennessee	3.06	2.37	29.0%	3.06	2.37	--	--
West South Central	3.11	2.44	27.0%	3.22	2.54	3.05	2.36
Arkansas	W	W	W	3.22	2.79	W	W
Louisiana	W	2.46	W	3.30	2.50	W	2.25
Oklahoma	W	W	W	3.18	2.56	W	W
Texas	3.07	2.42	27.0%	3.16	2.52	3.06	2.38
Mountain	3.49	2.78	26.0%	3.50	2.79	3.39	2.71
Arizona	3.62	W	W	3.69	2.97	3.03	W
Colorado	W	W	W	3.42	2.92	W	W
Idaho	--	2.64	--	--	2.64	--	--
Montana	1.94	--	--	1.94	--	--	--
Nevada	3.44	2.71	27.0%	3.44	2.71	--	--
New Mexico	3.44	2.73	26.0%	3.44	2.73	--	--
Utah	W	W	W	3.35	2.43	W	W
Wyoming	W	6.91	W	3.43	6.91	W	--
Pacific Contiguous	3.65	2.81	30.0%	3.95	3.08	3.38	2.58
California	W	2.92	W	4.06	3.30	W	2.66
Oregon	W	W	W	2.73	2.17	W	W
Washington	3.81	W	W	3.81	3.20	--	W
Pacific Noncontiguous	8.09	6.52	24.0%	8.09	6.52	--	--
Alaska	8.09	6.52	24.0%	8.09	6.52	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.43	2.72	26.0%	3.65	2.96	3.13	2.40

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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, August 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	4	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	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	1,812	3.05	9.3	0	--	--	0	--	--
New Jersey	48	1.77	7.9	0	--	--	0	--	--
New York	24	2.63	7.6	0	--	--	0	--	--
Pennsylvania	1,739	3.09	9.3	0	--	--	0	--	--
East North Central	5,987	3.14	10.2	6,949	0.25	4.7	0	--	--
Illinois	917	3.75	20.7	2,805	0.22	4.7	0	--	--
Indiana	2,633	2.84	8.6	92	0.20	4.2	0	--	--
Michigan	127	2.53	7.6	2,124	0.27	4.6	0	--	--
Ohio	2,251	3.33	8.8	31	0.28	5.1	0	--	--
Wisconsin	59	2.32	8.7	1,897	0.25	5.0	0	--	--
West North Central	136	3.00	9.0	8,405	0.28	5.0	2,180	0.89	9.7
Iowa	42	3.48	8.3	1,391	0.23	4.7	0	--	--
Kansas	15	3.16	13.3	1,120	0.33	5.0	0	--	--
Minnesota	0	--	--	1,256	0.40	6.2	0	--	--
Missouri	79	2.72	8.6	3,259	0.23	4.7	0	--	--
Nebraska	0	--	--	1,228	0.27	5.1	0	--	--
North Dakota	0	--	--	10	0.37	5.2	2,180	0.89	9.7
South Dakota	0	--	--	140	0.38	5.2	0	--	--
South Atlantic	7,559	2.28	10.0	842	0.36	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,555	2.13	8.4	0	--	--	0	--	--
Georgia	715	2.53	8.0	842	0.36	4.8	0	--	--
Maryland	285	2.45	10.7	0	--	--	0	--	--
North Carolina	1,414	1.89	9.0	0	--	--	0	--	--
South Carolina	558	1.53	9.5	0	--	--	0	--	--
Virginia	619	1.45	16.8	0	--	--	0	--	--
West Virginia	2,413	2.87	10.7	0	--	--	0	--	--
East South Central	3,684	2.54	9.0	1,931	0.27	5.1	183	0.56	14.8
Alabama	649	1.54	10.0	947	0.29	5.2	0	--	--
Kentucky	2,283	2.98	9.0	545	0.25	5.0	0	--	--
Mississippi	136	1.11	6.9	116	0.31	4.9	183	0.56	14.8
Tennessee	616	2.25	8.3	323	0.23	5.1	0	--	--
West South Central	65	2.24	14.4	8,142	0.26	5.0	3,100	1.09	17.1
Arkansas	4	0.66	9.0	1,376	0.23	4.7	0	--	--
Louisiana	37	2.76	8.2	540	0.29	5.0	77	0.57	20.9
Oklahoma	24	1.60	26.5	1,119	0.23	4.8	0	--	--
Texas	0	--	--	5,106	0.28	5.2	3,023	1.10	17.0
Mountain	2,300	0.60	14.2	6,799	0.52	9.3	23	0.54	8.7
Arizona	608	0.59	11.2	1,010	0.59	10.4	0	--	--
Colorado	136	0.44	10.7	1,462	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	942	0.72	10.1	23	0.54	8.7
Nevada	0	--	--	183	0.40	7.7	0	--	--
New Mexico	554	0.82	22.1	624	0.72	22.3	0	--	--
Utah	1,002	0.52	12.5	60	1.06	8.6	0	--	--
Wyoming	0	--	--	2,519	0.49	7.5	0	--	--
Pacific Contiguous	55	0.53	11.0	551	0.41	7.8	0	--	--
California	55	0.53	11.0	0	--	--	0	--	--
Oregon	0	--	--	125	0.24	4.8	0	--	--
Washington	0	--	--	427	0.46	8.7	0	--	--
Pacific Noncontiguous	0	--	--	61	0.18	4.7	10	0.11	6.3
Alaska	0	--	--	0	--	--	10	0.11	6.3
Hawaii	0	--	--	61	0.18	4.7	0	--	--
U.S. Total	21,601	2.46	10.2	33,680	0.32	5.9	5,497	0.99	14.0

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

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

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, August 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	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	62	4.08	8.8	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	62	4.08	8.8	0	--	--	0	--	--
East North Central	3,573	2.92	8.6	4,589	0.26	4.7	0	--	--
Illinois	207	3.26	10.9	476	0.22	4.6	0	--	--
Indiana	2,499	2.80	8.6	92	0.20	4.2	0	--	--
Michigan	126	2.55	7.6	2,124	0.27	4.6	0	--	--
Ohio	695	3.31	8.5	0	--	--	0	--	--
Wisconsin	46	2.78	8.3	1,897	0.25	5.0	0	--	--
West North Central	94	2.79	9.4	8,202	0.28	5.0	2,180	0.89	9.7
Iowa	0	--	--	1,251	0.23	4.7	0	--	--
Kansas	15	3.16	13.3	1,120	0.33	5.0	0	--	--
Minnesota	0	--	--	1,256	0.40	6.2	0	--	--
Missouri	79	2.72	8.6	3,259	0.23	4.7	0	--	--
Nebraska	0	--	--	1,165	0.27	5.1	0	--	--
North Dakota	0	--	--	10	0.37	5.2	2,180	0.89	9.7
South Dakota	0	--	--	140	0.38	5.2	0	--	--
South Atlantic	6,657	2.23	9.8	842	0.36	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,522	2.16	8.4	0	--	--	0	--	--
Georgia	706	2.55	8.0	842	0.36	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,393	1.91	9.1	0	--	--	0	--	--
South Carolina	558	1.53	9.5	0	--	--	0	--	--
Virginia	551	1.54	17.9	0	--	--	0	--	--
West Virginia	1,927	2.77	10.1	0	--	--	0	--	--
East South Central	3,602	2.58	9.0	1,931	0.27	5.1	0	--	--
Alabama	649	1.54	10.0	947	0.29	5.2	0	--	--
Kentucky	2,283	2.98	9.0	545	0.25	5.0	0	--	--
Mississippi	136	1.11	6.9	116	0.31	4.9	0	--	--
Tennessee	534	2.48	8.6	323	0.23	5.1	0	--	--
West South Central	37	2.76	8.2	4,925	0.25	4.9	722	1.55	20.0
Arkansas	0	--	--	1,182	0.22	4.7	0	--	--
Louisiana	37	2.76	8.2	264	0.28	5.0	77	0.57	20.9
Oklahoma	0	--	--	989	0.23	4.8	0	--	--
Texas	0	--	--	2,491	0.26	5.0	645	1.67	19.9
Mountain	2,277	0.60	14.2	5,751	0.49	9.2	23	0.54	8.7
Arizona	608	0.59	11.2	1,010	0.59	10.4	0	--	--
Colorado	136	0.44	10.7	1,462	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	23	0.54	8.7
Nevada	0	--	--	121	0.43	9.1	0	--	--
New Mexico	554	0.82	22.1	624	0.72	22.3	0	--	--
Utah	980	0.52	12.5	60	1.06	8.6	0	--	--
Wyoming	0	--	--	2,474	0.49	7.6	0	--	--
Pacific Contiguous	0	--	--	125	0.24	4.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	125	0.24	4.8	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	10	0.11	6.3
Alaska	0	--	--	0	--	--	10	0.11	6.3
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	16,303	2.26	9.9	26,365	0.32	5.9	2,936	1.04	12.1

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

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

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, August 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	4	0.67	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	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	1,714	3.02	9.3	0	--	--	0	--	--
New Jersey	48	1.77	7.9	0	--	--	0	--	--
New York	0	0.74	22.5	0	--	--	0	--	--
Pennsylvania	1,666	3.06	9.3	0	--	--	0	--	--
East North Central	2,296	3.47	12.7	2,313	0.21	4.6	0	--	--
Illinois	606	3.97	27.7	2,282	0.21	4.6	0	--	--
Indiana	134	3.46	9.7	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,556	3.34	9.0	31	0.28	5.1	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	817	2.84	11.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	13	0.81	9.6	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	270	2.48	10.2	0	--	--	0	--	--
North Carolina	3	0.69	6.6	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	46	0.81	10.3	0	--	--	0	--	--
West Virginia	485	3.31	13.2	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	183	0.56	14.8
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	183	0.56	14.8
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	24	1.60	26.5	3,171	0.30	5.2	2,378	0.96	16.3
Arkansas	0	--	--	195	0.23	4.6	0	--	--
Louisiana	0	--	--	276	0.31	5.0	0	--	--
Oklahoma	24	1.60	26.5	85	0.32	4.9	0	--	--
Texas	0	--	--	2,615	0.30	5.3	2,378	0.96	16.3
Mountain	0	--	--	1,048	0.69	9.7	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	942	0.72	10.1	0	--	--
Nevada	0	--	--	61	0.35	4.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.51	6.9	0	--	--
Pacific Contiguous	0	--	--	427	0.46	8.7	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	427	0.46	8.7	0	--	--
Pacific Noncontiguous	0	--	--	61	0.18	4.7	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	61	0.18	4.7	0	--	--
U.S. Total	4,855	3.18	11.3	7,020	0.33	5.9	2,561	0.94	16.3

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

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, August 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	2.77	8.1	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	2.77	8.1	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	2.77	8.1	0	--	--	0	--	--

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

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

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, August 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	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	35	2.67	8.0	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	24	2.63	7.6	0	--	--	0	--	--
Pennsylvania	11	2.75	8.9	0	--	--	0	--	--
East North Central	117	3.29	8.7	47	0.80	6.5	0	--	--
Illinois	103	3.70	8.5	47	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.71	7.9	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	10.4	0	--	--	0	--	--
West North Central	42	3.48	8.3	204	0.22	4.5	0	--	--
Iowa	42	3.48	8.3	140	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	85	0.93	9.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	20	0.70	7.5	0	--	--	0	--	--
Georgia	9	1.01	10.5	0	--	--	0	--	--
Maryland	15	1.78	20.8	0	--	--	0	--	--
North Carolina	19	0.82	6.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	22	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	82	0.84	6.8	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	82	0.84	6.8	0	--	--	0	--	--
West South Central	4	0.66	9.0	46	0.18	4.7	0	--	--
Arkansas	4	0.66	9.0	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	46	0.18	4.7	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	22	0.54	11.0	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	22	0.54	11.0	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	55	0.53	11.0	0	--	--	0	--	--
California	55	0.53	11.0	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	443	1.79	8.8	296	0.30	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 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779
Year 2015					
January	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
Year 2016					
January	130,764	109,870	75,892	660	317,186
February	115,820	102,877	73,909	647	293,253
March	100,123	105,180	75,907	610	281,819
April	88,107	101,464	75,801	595	265,967
May	93,981	107,900	78,246	582	280,708
June	124,888	119,673	80,234	632	325,427
July	153,976	129,265	83,369	648	367,258
August	155,851	134,078	85,061	632	375,622
Sept	129,111	122,961	79,719	637	332,428
October	101,137	112,346	77,960	613	292,056
November	92,797	104,454	75,048	592	272,891
December	120,840	109,548	75,124	652	306,163
Year 2017					
January	128,997	109,225	75,596	666	314,483
February	101,141	99,478	71,741	636	272,996
March	103,210	106,991	77,018	644	287,863
April	90,780	101,566	75,624	590	268,560
May	98,757	109,757	79,838	583	288,934
June	121,778	119,028	82,083	619	323,508
July	148,865	128,049	84,027	630	361,570
August	141,745	127,617	85,816	641	355,819
Year to Date					
2015	974,983	914,765	661,809	5,162	2,556,719
2016	963,509	910,307	628,418	5,005	2,507,240
2017	935,272	901,711	631,741	5,009	2,473,732
Rolling 12 Months Ending in August					
2016	1,392,623	1,356,294	953,117	7,480	3,709,513
2017	1,379,157	1,351,020	939,591	7,503	3,677,271

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2015 and prior years are final. Values for 2017 and 2016 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - August 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435
Year 2015					
January	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
Year 2016					
January	15,666	11,005	4,860	62	31,594
February	14,060	10,491	4,720	61	29,332
March	12,585	10,682	4,908	58	28,233
April	10,955	10,275	4,849	56	26,136
May	12,023	11,055	5,134	53	28,266
June	15,882	12,677	5,639	61	34,259
July	19,522	13,732	6,025	62	39,341
August	20,104	14,355	6,152	63	40,674
Sept	16,611	13,157	5,697	63	35,528
October	12,599	11,759	5,236	58	29,653
November	11,828	10,701	4,995	54	27,577
December	14,750	11,047	4,984	61	30,843
Year 2017					
January	15,758	11,126	4,964	62	31,910
February	12,961	10,424	4,755	60	28,201
March	13,315	11,210	5,189	61	29,774
April	11,525	10,564	4,992	56	27,137
May	12,857	11,608	5,434	56	29,954
June	16,098	13,078	5,926	63	35,166
July	19,533	14,079	6,160	64	39,836
August	18,699	14,089	6,218	65	39,070
Year to Date					
2015	123,110	97,715	46,103	525	267,453
2016	120,797	94,274	42,288	476	257,834
2017	120,746	96,177	43,639	487	261,049
Rolling 12 Months Ending in August					
2016	175,311	141,340	64,351	721	381,723
2017	176,534	142,841	64,551	722	384,649

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2015 and prior years are final. Values for 2017 and 2016 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28
Year 2015					
January	12.10	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
Year 2016					
January	11.98	10.02	6.40	9.41	9.96
February	12.14	10.20	6.39	9.49	10.00
March	12.57	10.16	6.47	9.43	10.02
April	12.43	10.13	6.40	9.41	9.83
May	12.79	10.25	6.56	9.13	10.07
June	12.72	10.59	7.03	9.59	10.53
July	12.68	10.62	7.23	9.63	10.71
August	12.90	10.71	7.23	9.89	10.83
Sept	12.87	10.70	7.15	9.83	10.69
October	12.46	10.47	6.72	9.43	10.15
November	12.75	10.24	6.66	9.04	10.11
December	12.21	10.08	6.63	9.40	10.07
Year 2017					
January	12.22	10.19	6.57	9.32	10.15
February	12.82	10.48	6.63	9.47	10.33
March	12.90	10.48	6.74	9.48	10.34
April	12.70	10.40	6.60	9.44	10.10
May	13.02	10.58	6.81	9.58	10.37
June	13.22	10.99	7.22	10.21	10.87
July	13.12	11.00	7.33	10.19	11.02
August	13.19	11.04	7.25	10.07	10.98
Year to Date					
2015	12.63	10.68	6.97	10.18	10.46
2016	12.54	10.36	6.73	9.50	10.28
2017	12.91	10.67	6.91	9.72	10.55
Rolling 12 Months Ending in August					
2016	12.59	10.42	6.75	9.64	10.29
2017	12.80	10.57	6.87	9.62	10.46

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2015 and prior years are final. Values for 2017 and 2016 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, August 2017 and 2016 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	4,305	5,100	4,674	5,154	1,461	1,583	48	46	10,488	11,883
Connecticut	1,171	1,447	1,159	1,262	302	312	18	15	2,649	3,036
Maine	374	432	352	396	224	256	0	0	950	1,084
Massachusetts	1,875	2,212	2,245	2,515	574	635	28	29	4,722	5,391
New Hampshire	402	453	400	428	175	187	0	0	977	1,069
Rhode Island	312	369	338	363	66	70	2	2	718	805
Vermont	171	186	180	189	121	124	0	0	472	499
Middle Atlantic	12,817	15,439	14,330	15,515	6,448	6,275	316	327	33,910	37,555
New Jersey	3,072	3,881	3,507	3,839	614	650	28	27	7,222	8,396
New York	5,021	5,900	7,002	7,519	1,568	1,508	225	228	13,817	15,155
Pennsylvania	4,723	5,658	3,821	4,156	4,265	4,117	62	72	12,872	14,004
East North Central	16,712	21,015	16,543	18,418	16,348	16,733	56	46	49,659	56,212
Illinois	4,209	5,407	4,573	4,976	3,596	3,945	51	41	12,429	14,369
Indiana	2,967	3,570	2,209	2,463	3,583	3,704	2	2	8,761	9,739
Michigan	3,040	3,903	3,436	3,953	2,690	2,606	1	0	9,166	10,462
Ohio	4,701	5,916	4,195	4,725	4,253	4,250	3	3	13,151	14,894
Wisconsin	1,795	2,218	2,130	2,302	2,227	2,228	0	0	6,152	6,747
West North Central	9,044	10,552	9,242	9,900	7,806	7,842	4	4	26,096	28,298
Iowa	1,200	1,370	1,071	1,142	1,925	1,986	0	0	4,196	4,498
Kansas	1,376	1,585	1,488	1,607	1,031	976	0	0	3,895	4,168
Minnesota	1,763	2,085	2,024	2,184	1,857	1,826	2	2	5,646	6,097
Missouri	3,135	3,768	2,853	3,070	1,061	1,064	2	2	7,052	7,904
Nebraska	886	970	875	926	1,014	1,113	0	0	2,775	3,009
North Dakota	319	359	496	512	665	613	0	0	1,480	1,484
South Dakota	366	415	434	458	253	263	0	0	1,053	1,137
South Atlantic	36,187	39,084	29,737	30,894	12,433	12,526	112	111	78,469	82,616
Delaware	470	544	382	429	190	205	0	0	1,042	1,178
District of Columbia	243	286	751	822	13	11	27	28	1,034	1,148
Florida	13,031	13,110	9,110	9,101	1,458	1,443	8	9	23,606	23,663
Georgia	6,046	6,543	4,551	4,751	2,845	2,861	15	16	13,458	14,170
Maryland	2,405	2,956	2,676	3,003	336	373	43	42	5,459	6,374
North Carolina	5,741	6,296	4,746	4,914	2,474	2,480	0	1	12,960	13,691
South Carolina	3,183	3,475	2,201	2,299	2,434	2,434	0	0	7,817	8,208
Virginia	4,188	4,806	4,634	4,824	1,515	1,582	18	17	10,355	11,228
West Virginia	881	1,069	686	750	1,169	1,136	0	0	2,737	2,955
East South Central	11,950	13,175	8,749	9,309	8,898	8,702	0	0	29,597	31,186
Alabama	3,288	3,585	2,252	2,363	3,012	2,889	0	0	8,552	8,837
Kentucky	2,444	2,840	1,801	1,974	2,465	2,406	0	0	6,710	7,220
Mississippi	2,000	2,118	1,386	1,415	1,438	1,475	0	0	4,824	5,007
Tennessee	4,219	4,631	3,310	3,557	1,983	1,932	0	0	9,511	10,121
West South Central	24,649	25,833	18,844	19,670	16,204	14,865	18	18	59,715	60,387
Arkansas	1,901	2,011	1,188	1,239	1,567	1,466	0	0	4,656	4,716
Louisiana	3,284	3,455	2,351	2,427	2,992	2,917	1	1	8,628	8,799
Oklahoma	2,470	2,732	1,933	2,015	1,518	1,503	0	0	5,921	6,251
Texas	16,995	17,635	13,372	13,990	10,126	8,978	17	17	40,510	40,620
Mountain	11,072	11,032	9,511	9,143	7,629	7,746	11	12	28,223	27,933
Arizona	4,303	4,219	3,104	3,005	1,237	1,285	1	1	8,644	8,509
Colorado	1,896	1,911	1,900	1,892	1,443	1,458	6	5	5,245	5,266
Idaho	724	686	584	577	1,082	1,108	0	0	2,390	2,371
Montana	420	390	432	437	408	381	0	0	1,260	1,208
Nevada	1,706	1,855	1,188	985	1,131	1,191	1	1	4,026	4,032
New Mexico	710	717	850	838	700	672	0	0	2,260	2,226
Utah	1,123	1,047	1,134	1,077	745	802	4	5	3,007	2,931
Wyoming	190	208	320	331	882	851	0	0	1,392	1,390
Pacific Contiguous	14,622	14,225	15,480	15,565	8,142	8,325	76	68	38,320	38,184
California	10,493	10,194	11,328	11,496	4,913	5,041	74	66	26,807	26,797
Oregon	1,580	1,517	1,530	1,466	1,122	1,131	2	2	4,234	4,117
Washington	2,550	2,514	2,623	2,603	2,107	2,153	1	1	7,280	7,270
Pacific Noncontiguous	388	396	507	510	446	464	0	0	1,342	1,369
Alaska	144	147	223	227	119	122	0	0	486	496
Hawaii	245	249	284	283	327	341	0	0	856	873
U.S. Total	141,745	155,851	127,617	134,078	85,816	85,061	641	632	355,819	375,622

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	31,153	31,644	34,411	35,246	10,940	11,453	371	370	76,875	78,712
Connecticut	8,470	8,695	8,237	8,596	2,075	2,168	119	119	18,901	19,578
Maine	3,131	3,087	2,672	2,666	1,728	1,887	0	0	7,531	7,640
Massachusetts	13,138	13,336	16,823	17,147	4,434	4,604	234	232	34,629	35,320
New Hampshire	3,014	3,011	2,932	3,001	1,284	1,328	0	0	7,230	7,340
Rhode Island	2,046	2,128	2,425	2,482	495	522	19	18	4,985	5,151
Vermont	1,354	1,385	1,322	1,353	924	945	0	0	3,601	3,683
Middle Atlantic	87,635	91,331	103,914	106,001	47,595	47,359	2,558	2,562	241,702	247,254
New Jersey	19,240	20,404	25,405	25,933	4,729	4,662	206	206	49,579	51,205
New York	33,247	34,320	49,837	50,896	11,245	11,444	1,838	1,832	96,166	98,492
Pennsylvania	35,148	36,607	28,672	29,172	31,621	31,253	514	525	95,956	97,557
East North Central	121,133	129,478	122,236	125,225	122,475	124,621	380	388	366,224	379,712
Illinois	29,630	31,976	33,300	34,240	27,609	28,323	335	342	90,875	94,881
Indiana	21,033	22,514	15,900	16,335	27,185	28,363	13	14	64,132	67,227
Michigan	22,400	23,753	25,964	26,386	19,739	20,381	4	3	68,106	70,522
Ohio	33,693	36,320	31,224	32,201	31,807	31,586	28	29	96,751	100,135
Wisconsin	14,377	14,915	15,849	16,063	16,134	15,968	0	0	46,359	46,946
West North Central	69,079	70,522	68,071	68,909	58,156	56,396	31	30	195,337	195,856
Iowa	9,467	9,597	8,100	8,170	14,890	14,312	0	0	32,457	32,079
Kansas	8,917	9,401	10,342	10,566	7,320	7,132	0	0	26,580	27,098
Minnesota	14,581	14,697	15,403	15,652	13,826	13,209	16	16	43,826	43,574
Missouri	22,978	23,832	20,418	20,844	7,865	8,062	15	14	51,276	52,752
Nebraska	6,790	6,759	6,391	6,418	7,236	7,062	0	0	20,417	20,238
North Dakota	3,169	3,100	4,149	4,021	5,167	4,832	0	0	12,484	11,954
South Dakota	3,177	3,136	3,268	3,238	1,852	1,786	0	0	8,297	8,160
South Atlantic	235,457	246,878	207,947	210,508	92,197	92,600	870	903	536,471	550,888
Delaware	3,178	3,276	2,777	2,888	1,399	1,379	0	0	7,354	7,543
District of Columbia	1,660	1,710	5,389	5,752	117	136	221	226	7,388	7,824
Florida	80,571	82,243	63,396	63,251	11,037	11,019	61	65	155,066	156,578
Georgia	37,368	39,827	31,288	32,073	21,001	21,313	113	115	89,770	93,328
Maryland	17,836	19,150	19,436	20,049	2,517	2,538	353	369	40,142	42,106
North Carolina	37,905	40,267	32,242	32,783	18,015	18,061	2	5	88,165	91,115
South Carolina	19,924	21,403	14,617	15,100	18,050	17,929	0	0	52,591	54,433
Virginia	29,934	31,146	33,747	33,321	11,204	11,644	119	124	75,004	76,236
West Virginia	7,081	7,854	5,054	5,291	8,857	8,581	0	0	20,992	21,726
East South Central	76,820	81,827	59,778	61,422	66,365	65,019	0	0	202,962	208,268
Alabama	20,636	22,165	15,175	15,584	22,283	21,917	0	0	58,094	59,666
Kentucky	17,104	18,320	12,683	13,079	18,461	18,191	0	0	48,248	49,589
Mississippi	11,938	12,570	9,197	9,241	11,046	11,028	0	0	32,181	32,839
Tennessee	27,142	28,772	22,722	23,518	14,575	13,883	0	0	64,438	66,173
West South Central	143,042	146,968	128,376	128,853	119,928	114,063	128	126	391,474	390,009
Arkansas	11,614	12,141	7,917	8,035	11,205	10,632	0	0	30,736	30,809
Louisiana	19,730	20,555	16,223	16,415	22,873	22,324	9	8	58,835	59,302
Oklahoma	15,268	16,011	13,466	13,595	11,608	11,346	0	0	40,342	40,952
Texas	96,430	98,261	90,770	90,807	74,242	69,760	119	118	261,561	258,946
Mountain	68,715	67,386	65,355	63,823	55,026	56,277	93	89	189,190	187,575
Arizona	24,209	23,747	20,147	20,056	9,123	10,037	4	4	53,483	53,844
Colorado	12,823	12,930	13,653	13,645	10,327	10,229	45	43	36,847	36,848
Idaho	5,867	5,432	4,282	4,166	6,251	6,241	0	0	16,400	15,839
Montana	3,524	3,240	3,365	3,278	2,901	2,838	0	0	9,791	9,356
Nevada	9,320	9,117	7,641	6,526	8,426	9,225	6	6	25,392	24,874
New Mexico	4,588	4,643	5,992	5,975	4,988	4,966	0	0	15,567	15,584
Utah	6,521	6,426	7,779	7,699	6,177	6,108	39	37	20,516	20,270
Wyoming	1,863	1,851	2,496	2,477	6,834	6,634	0	0	11,194	10,961
Pacific Contiguous	99,139	94,466	107,752	106,429	55,737	57,271	578	536	263,206	258,703
California	60,923	59,301	76,551	76,173	31,688	33,157	557	516	169,719	169,148
Oregon	13,364	12,341	11,080	10,736	7,975	7,776	17	16	32,435	30,869
Washington	24,853	22,824	20,122	19,521	16,074	16,338	4	4	61,052	58,686
Pacific Noncontiguous	3,099	3,009	3,871	3,893	3,322	3,360	0	0	10,292	10,262
Alaska	1,367	1,300	1,831	1,827	919	904	0	0	4,116	4,031
Hawaii	1,732	1,709	2,040	2,066	2,403	2,456	0	0	6,175	6,231
U.S. Total	935,272	963,509	901,711	910,307	631,741	628,418	5,009	5,005	2,473,732	2,507,240

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	837	930	736	778	185	195	4	4	1,762	1,907
Connecticut	241	272	187	194	40	40	2	2	470	508
Maine	60	70	43	49	20	25	0	0	123	143
Massachusetts	374	406	369	395	81	85	1	2	825	887
New Hampshire	77	83	58	61	21	23	0	0	157	167
Rhode Island	55	69	53	53	10	9	0	0	118	132
Vermont	30	32	26	26	12	12	0	0	68	71
Middle Atlantic	2,101	2,473	1,916	2,055	446	456	38	38	4,501	5,021
New Jersey	487	630	456	507	66	70	3	2	1,012	1,209
New York	933	1,062	1,119	1,171	97	95	31	30	2,180	2,357
Pennsylvania	681	781	341	377	283	291	4	5	1,309	1,455
East North Central	2,224	2,710	1,674	1,823	1,147	1,187	4	3	5,049	5,723
Illinois	530	646	405	441	233	262	3	3	1,171	1,352
Indiana	355	405	227	240	260	264	0	0	843	910
Michigan	477	620	380	424	194	191	0	0	1,052	1,235
Ohio	593	722	421	462	285	289	0	0	1,299	1,474
Wisconsin	269	318	241	255	175	180	0	0	685	753
West North Central	1,204	1,352	999	1,020	628	623	0	0	2,831	2,995
Iowa	176	196	124	128	159	159	0	0	459	483
Kansas	187	209	164	167	78	73	0	0	430	449
Minnesota	245	273	223	222	146	140	0	0	613	636
Missouri	403	467	314	323	87	85	0	0	804	875
Nebraska	108	117	83	87	81	93	0	0	271	296
North Dakota	39	41	49	49	58	54	0	0	145	144
South Dakota	46	50	42	44	20	20	0	0	108	113
South Atlantic	4,433	4,685	2,833	2,868	833	837	9	9	8,108	8,399
Delaware	62	71	37	42	14	17	0	0	113	130
District of Columbia	31	36	83	96	1	1	3	3	117	135
Florida	1,546	1,504	867	824	117	115	1	1	2,530	2,443
Georgia	770	819	458	461	179	174	1	1	1,409	1,455
Maryland	335	409	284	323	28	29	3	3	650	764
North Carolina	653	715	415	436	158	167	0	0	1,226	1,319
South Carolina	414	443	235	238	155	155	0	0	804	836
Virginia	520	564	390	378	104	106	1	1	1,015	1,049
West Virginia	103	124	64	69	78	74	0	0	245	267
East South Central	1,345	1,437	925	939	545	532	0	0	2,815	2,908
Alabama	420	438	261	261	195	186	0	0	877	885
Kentucky	259	293	174	182	136	136	0	0	570	611
Mississippi	220	218	140	132	91	89	0	0	450	439
Tennessee	446	488	350	365	123	120	0	0	919	973
West South Central	2,675	2,751	1,572	1,544	911	804	1	1	5,159	5,100
Arkansas	202	209	103	103	100	95	0	0	405	407
Louisiana	323	326	209	207	169	153	0	0	701	685
Oklahoma	262	287	160	164	82	78	0	0	504	530
Texas	1,889	1,930	1,099	1,070	559	478	1	1	3,549	3,479
Mountain	1,358	1,335	950	915	549	545	1	1	2,858	2,796
Arizona	547	530	339	334	91	90	0	0	977	954
Colorado	236	244	198	193	109	108	1	1	544	545
Idaho	77	72	48	46	80	79	0	0	206	197
Montana	48	45	44	44	24	21	0	0	115	110
Nevada	201	201	96	79	93	93	0	0	390	373
New Mexico	95	93	92	89	44	40	0	0	231	222
Utah	131	124	103	99	49	55	0	0	283	279
Wyoming	23	24	31	31	59	60	0	0	113	116
Pacific Contiguous	2,420	2,330	2,366	2,300	881	883	7	7	5,674	5,520
California	1,996	1,925	2,008	1,955	707	709	7	6	4,718	4,595
Oregon	173	165	137	130	71	73	0	0	381	368
Washington	251	241	221	215	103	101	0	0	575	557
Pacific Noncontiguous	102	99	117	113	92	91	0	0	311	303
Alaska	31	31	43	42	19	18	0	0	93	92
Hawaii	70	68	74	71	73	72	0	0	218	211
U.S. Total	18,699	20,104	14,089	14,355	6,218	6,152	65	63	39,070	40,674

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	6,013	5,981	5,254	5,340	1,358	1,386	31	31	12,656	12,739
Connecticut	1,707	1,765	1,319	1,354	276	283	13	13	3,314	3,416
Maine	502	483	328	323	160	170	0	0	989	976
Massachusetts	2,622	2,551	2,618	2,664	600	603	15	15	5,855	5,834
New Hampshire	574	551	429	432	157	164	0	0	1,160	1,146
Rhode Island	370	392	368	372	71	71	4	3	812	839
Vermont	239	238	193	195	94	95	0	0	525	529
Middle Atlantic	14,066	14,337	13,165	13,294	3,297	3,338	289	280	30,816	31,249
New Jersey	3,054	3,230	3,203	3,260	488	481	19	18	6,763	6,989
New York	5,991	5,984	7,373	7,316	665	685	234	222	14,262	14,207
Pennsylvania	5,021	5,124	2,589	2,717	2,144	2,172	37	40	9,791	10,054
East North Central	16,006	16,655	12,353	12,268	8,616	8,567	26	27	37,001	37,517
Illinois	3,739	3,901	2,973	2,990	1,780	1,806	22	23	8,513	8,720
Indiana	2,508	2,515	1,634	1,563	2,006	1,944	2	1	6,151	6,023
Michigan	3,487	3,607	2,873	2,786	1,452	1,422	0	0	7,813	7,815
Ohio	4,163	4,487	3,107	3,157	2,116	2,151	2	2	9,388	9,797
Wisconsin	2,109	2,146	1,765	1,772	1,261	1,244	0	0	5,136	5,163
West North Central	8,422	8,324	6,769	6,588	4,300	4,047	3	3	19,493	18,962
Iowa	1,209	1,196	797	783	960	908	0	0	2,966	2,887
Kansas	1,186	1,224	1,091	1,093	553	532	0	0	2,830	2,849
Minnesota	1,924	1,856	1,644	1,534	1,072	962	2	2	4,642	4,354
Missouri	2,660	2,640	1,962	1,933	567	556	1	1	5,190	5,131
Nebraska	745	736	578	574	557	558	0	0	1,880	1,868
North Dakota	331	316	384	366	446	396	0	0	1,161	1,078
South Dakota	368	355	312	305	144	135	0	0	823	795
South Atlantic	28,201	28,819	19,650	19,585	5,980	5,923	69	71	53,900	54,398
Delaware	425	437	280	293	109	111	0	0	813	841
District of Columbia	211	220	627	674	10	12	21	21	869	927
Florida	9,479	9,228	6,051	5,762	875	855	5	5	16,410	15,850
Georgia	4,482	4,613	3,126	3,101	1,237	1,200	6	6	8,851	8,919
Maryland	2,521	2,717	2,108	2,193	212	200	28	29	4,869	5,139
North Carolina	4,212	4,489	2,758	2,846	1,104	1,127	0	0	8,074	8,463
South Carolina	2,556	2,665	1,533	1,532	1,100	1,074	0	0	5,190	5,271
Virginia	3,492	3,580	2,683	2,694	741	782	9	10	6,925	7,066
West Virginia	823	870	484	491	593	561	0	0	1,900	1,922
East South Central	8,655	8,753	6,308	6,143	3,983	3,731	0	0	18,946	18,627
Alabama	2,613	2,645	1,762	1,716	1,391	1,312	0	0	5,766	5,673
Kentucky	1,808	1,858	1,223	1,218	1,032	987	0	0	4,064	4,064
Mississippi	1,340	1,323	944	880	681	639	0	0	2,965	2,843
Tennessee	2,894	2,927	2,379	2,329	879	792	0	0	6,152	6,048
West South Central	15,409	15,473	10,727	10,050	6,581	5,857	10	7	32,727	31,387
Arkansas	1,187	1,197	669	654	666	626	0	0	2,522	2,477
Louisiana	1,880	1,851	1,448	1,381	1,234	1,086	1	1	4,563	4,319
Oklahoma	1,600	1,597	1,078	1,005	616	542	0	0	3,295	3,144
Texas	10,741	10,827	7,532	7,010	4,065	3,603	9	6	22,348	21,446
Mountain	8,186	7,878	6,343	6,108	3,612	3,573	9	9	18,150	17,567
Arizona	3,008	2,915	2,147	2,122	596	603	0	0	5,751	5,641
Colorado	1,556	1,544	1,354	1,300	755	718	4	4	3,670	3,567
Idaho	592	545	345	326	429	420	0	0	1,366	1,292
Montana	389	357	342	333	149	142	0	0	881	832
Nevada	1,102	1,038	602	526	517	551	0	0	2,221	2,115
New Mexico	596	554	623	584	305	286	0	0	1,523	1,424
Utah	731	719	688	683	386	393	4	4	1,809	1,798
Wyoming	212	206	243	233	474	460	0	0	929	899
Pacific Contiguous	14,988	13,845	14,708	14,065	5,217	5,228	49	47	34,962	33,185
California	11,197	10,409	12,026	11,488	3,980	4,015	47	46	27,249	25,957
Oregon	1,429	1,302	984	948	492	478	2	1	2,906	2,729
Washington	2,363	2,134	1,698	1,629	745	736	0	0	4,807	4,499
Pacific Noncontiguous	801	732	899	833	696	637	0	0	2,396	2,202
Alaska	293	266	359	332	154	138	0	0	807	737
Hawaii	507	466	540	501	542	499	0	0	1,590	1,466
U.S. Total	120,746	120,797	96,177	94,274	43,639	42,288	487	476	261,049	257,834

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	19.45	18.24	15.75	15.10	12.63	12.30	7.88	8.46	16.80	16.05
Connecticut	20.55	18.78	16.12	15.37	13.40	12.89	10.41	10.64	17.73	16.71
Maine	15.96	16.12	12.29	12.27	8.98	9.72	--	--	12.96	13.20
Massachusetts	19.94	18.34	16.45	15.71	14.07	13.36	5.30	6.49	17.48	16.46
New Hampshire	19.20	18.25	14.64	14.30	12.18	12.32	--	--	16.07	15.63
Rhode Island	17.79	18.57	15.55	14.63	14.96	13.46	20.12	18.96	16.48	16.35
Vermont	17.72	17.27	14.27	13.97	10.03	9.95	--	--	14.44	14.21
Middle Atlantic	16.40	16.02	13.37	13.24	6.92	7.26	11.97	11.50	13.27	13.37
New Jersey	15.86	16.22	13.01	13.19	10.72	10.82	9.22	9.22	14.01	14.40
New York	18.59	18.00	15.97	15.57	6.21	6.28	13.69	13.02	15.78	15.55
Pennsylvania	14.41	13.81	8.93	9.08	6.64	7.06	6.98	7.55	10.17	10.39
East North Central	13.31	12.90	10.12	9.90	7.02	7.09	6.81	6.88	10.17	10.18
Illinois	12.59	11.94	8.86	8.87	6.47	6.64	6.58	6.66	9.42	9.41
Indiana	11.97	11.35	10.29	9.74	7.26	7.13	11.05	9.49	9.62	9.34
Michigan	15.70	15.87	11.07	10.74	7.22	7.34	11.48	11.20	11.48	11.81
Ohio	12.62	12.21	10.03	9.78	6.69	6.81	7.64	7.89	9.87	9.90
Wisconsin	14.98	14.33	11.30	11.08	7.88	8.09	14.12	15.00	11.14	11.16
West North Central	13.31	12.81	10.81	10.30	8.04	7.94	10.73	10.91	10.85	10.58
Iowa	14.69	14.28	11.61	11.24	8.23	7.99	--	--	10.94	10.73
Kansas	13.62	13.17	11.04	10.41	7.60	7.43	--	--	11.04	10.76
Minnesota	13.89	13.11	11.01	10.16	7.84	7.68	9.84	10.45	10.87	10.43
Missouri	12.86	12.40	11.01	10.52	8.15	7.96	11.66	11.44	11.41	11.07
Nebraska	12.13	12.02	9.44	9.35	7.99	8.36	--	--	9.77	9.85
North Dakota	12.22	11.38	9.86	9.57	8.66	8.75	--	--	9.83	9.67
South Dakota	12.44	11.93	9.65	9.57	7.96	7.53	--	--	10.21	9.96
South Atlantic	12.25	11.99	9.53	9.28	6.70	6.68	7.88	7.90	10.33	10.17
Delaware	13.13	13.00	9.81	9.87	7.31	8.08	--	--	10.85	11.00
District of Columbia	12.62	12.48	11.09	11.70	7.94	9.02	9.13	9.15	11.36	11.80
Florida	11.86	11.47	9.52	9.05	7.99	7.99	8.46	8.00	10.72	10.33
Georgia	12.74	12.52	10.06	9.70	6.30	6.07	6.43	6.23	10.47	10.27
Maryland	13.93	13.83	10.61	10.75	8.34	7.86	7.39	7.90	11.91	11.99
North Carolina	11.37	11.36	8.75	8.88	6.39	6.73	8.48	7.74	9.46	9.63
South Carolina	13.00	12.76	10.67	10.36	6.38	6.35	--	--	10.28	10.19
Virginia	12.42	11.74	8.41	7.84	6.83	6.68	8.09	7.28	9.80	9.35
West Virginia	11.67	11.57	9.34	9.20	6.64	6.54	--	--	8.94	9.04
East South Central	11.26	10.91	10.57	10.09	6.13	6.11	--	--	9.51	9.33
Alabama	12.78	12.22	11.60	11.03	6.48	6.43	--	--	10.25	10.01
Kentucky	10.61	10.31	9.68	9.21	5.53	5.66	--	--	8.49	8.46
Mississippi	10.98	10.31	10.06	9.30	6.30	6.06	--	--	9.32	8.78
Tennessee	10.58	10.54	10.56	10.26	6.21	6.23	--	--	9.66	9.62
West South Central	10.85	10.65	8.34	7.85	5.62	5.41	8.05	5.62	8.64	8.45
Arkansas	10.61	10.38	8.65	8.28	6.39	6.50	13.12	12.42	8.69	8.62
Louisiana	9.82	9.43	8.91	8.51	5.65	5.23	9.84	9.33	8.13	7.79
Oklahoma	10.59	10.51	8.29	8.16	5.43	5.20	--	--	8.52	8.48
Texas	11.11	10.94	8.22	7.65	5.52	5.32	7.93	5.39	8.76	8.56
Mountain	12.26	12.10	9.99	10.01	7.20	7.04	10.27	9.94	10.13	10.01
Arizona	12.72	12.56	10.92	11.10	7.34	7.00	8.18	11.39	11.30	11.21
Colorado	12.46	12.79	10.41	10.20	7.55	7.38	10.38	10.19	10.37	10.36
Idaho	10.63	10.51	8.25	8.02	7.43	7.14	--	--	8.60	8.33
Montana	11.46	11.50	10.10	10.16	5.78	5.46	--	--	9.15	9.11
Nevada	11.77	10.83	8.08	7.98	8.22	7.84	9.74	8.15	9.68	9.25
New Mexico	13.38	13.02	10.82	10.64	6.34	5.89	--	--	10.24	9.97
Utah	11.62	11.89	9.05	9.18	6.56	6.87	10.45	9.83	9.40	9.52
Wyoming	12.09	11.75	9.72	9.45	6.70	7.09	--	--	8.13	8.35
Pacific Contiguous	16.55	16.38	15.28	14.78	10.82	10.61	9.64	9.53	14.81	14.46
California	19.02	18.88	17.73	17.01	14.39	14.07	9.65	9.55	17.60	17.15
Oregon	10.93	10.86	8.94	8.87	6.37	6.47	9.38	9.27	9.00	8.94
Washington	9.85	9.57	8.43	8.27	4.87	4.68	9.03	8.99	7.90	7.66
Pacific Noncontiguous	26.19	25.08	23.11	22.20	20.72	19.56	--	--	23.21	22.14
Alaska	21.80	21.07	19.16	18.70	16.08	15.08	--	--	19.19	18.51
Hawaii	28.76	27.45	26.22	25.01	22.41	21.17	--	--	25.49	24.20
U.S. Total	13.19	12.90	11.04	10.71	7.25	7.23	10.07	9.89	10.98	10.83

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD	August 2017 YTD	August 2016 YTD
New England	19.30	18.90	15.27	15.15	12.41	12.10	8.35	8.49	16.46	16.18
Connecticut	20.16	20.30	16.01	15.75	13.28	13.07	10.74	10.94	17.54	17.45
Maine	16.02	15.65	12.28	12.11	9.25	9.01	--	--	13.14	12.78
Massachusetts	19.95	19.13	15.56	15.54	13.54	13.10	6.25	6.44	16.91	16.52
New Hampshire	19.03	18.29	14.63	14.39	12.25	12.32	--	--	16.04	15.61
Rhode Island	18.08	18.43	15.16	14.99	14.38	13.58	19.55	18.60	16.30	16.28
Vermont	17.62	17.21	14.56	14.42	10.12	10.05	--	--	14.57	14.35
Middle Atlantic	16.05	15.70	12.67	12.54	6.93	7.05	11.32	10.94	12.75	12.64
New Jersey	15.87	15.83	12.61	12.57	10.32	10.31	9.05	8.81	13.64	13.65
New York	18.02	17.43	14.79	14.37	5.91	5.99	12.71	12.10	14.83	14.42
Pennsylvania	14.28	14.00	9.03	9.31	6.78	6.95	7.24	7.71	10.20	10.31
East North Central	13.21	12.86	10.11	9.80	7.03	6.87	6.81	6.92	10.10	9.88
Illinois	12.62	12.20	8.93	8.73	6.45	6.38	6.51	6.71	9.37	9.19
Indiana	11.93	11.17	10.28	9.57	7.38	6.85	11.37	9.50	9.59	8.96
Michigan	15.57	15.18	11.07	10.56	7.36	6.98	12.01	11.47	11.47	11.08
Ohio	12.36	12.35	9.95	9.80	6.65	6.81	7.56	7.69	9.70	9.78
Wisconsin	14.67	14.39	11.14	11.03	7.82	7.79	14.27	14.50	11.08	11.00
West North Central	12.19	11.80	9.94	9.56	7.39	7.18	9.07	9.30	9.98	9.68
Iowa	12.77	12.46	9.84	9.58	6.45	6.35	--	--	9.14	9.00
Kansas	13.30	13.02	10.55	10.34	7.55	7.46	--	--	10.65	10.51
Minnesota	13.19	12.63	10.68	9.80	7.76	7.29	9.52	10.08	10.59	9.99
Missouri	11.58	11.08	9.61	9.28	7.21	6.89	8.61	8.42	10.12	9.73
Nebraska	10.97	10.89	9.05	8.94	7.70	7.91	--	--	9.21	9.23
North Dakota	10.45	10.20	9.26	9.11	8.64	8.19	--	--	9.30	9.02
South Dakota	11.57	11.33	9.54	9.41	7.77	7.55	--	--	9.92	9.74
South Atlantic	11.98	11.67	9.45	9.30	6.49	6.40	7.95	7.88	10.05	9.87
Delaware	13.37	13.35	10.06	10.14	7.76	8.06	--	--	11.06	11.16
District of Columbia	12.72	12.88	11.64	11.71	8.36	9.08	9.40	9.33	11.76	11.85
Florida	11.76	11.22	9.54	9.11	7.92	7.76	8.47	8.26	10.58	10.12
Georgia	12.00	11.58	9.99	9.67	5.89	5.63	5.42	5.09	9.86	9.56
Maryland	14.13	14.19	10.85	10.94	8.43	7.87	7.81	7.81	12.13	12.20
North Carolina	11.11	11.15	8.55	8.68	6.13	6.24	8.66	7.84	9.16	9.29
South Carolina	12.83	12.45	10.49	10.15	6.09	5.99	--	--	9.87	9.68
Virginia	11.67	11.49	7.95	8.09	6.61	6.72	7.81	7.81	9.23	9.27
West Virginia	11.62	11.07	9.58	9.28	6.70	6.54	--	--	9.05	8.85
East South Central	11.27	10.70	10.55	10.00	6.00	5.74	--	--	9.33	8.94
Alabama	12.66	11.93	11.61	11.01	6.24	5.99	--	--	9.92	9.51
Kentucky	10.57	10.14	9.64	9.31	5.59	5.43	--	--	8.42	8.19
Mississippi	11.22	10.53	10.27	9.53	6.16	5.80	--	--	9.21	8.66
Tennessee	10.66	10.17	10.47	9.90	6.03	5.71	--	--	9.55	9.14
West South Central	10.77	10.53	8.36	7.80	5.49	5.13	8.03	5.64	8.36	8.05
Arkansas	10.22	9.86	8.46	8.14	5.94	5.89	12.00	9.69	8.21	8.04
Louisiana	9.53	9.01	8.92	8.41	5.40	4.86	10.01	8.98	7.76	7.28
Oklahoma	10.48	9.98	8.01	7.39	5.31	4.78	--	--	8.17	7.68
Texas	11.14	11.02	8.30	7.72	5.48	5.16	7.88	5.40	8.54	8.28
Mountain	11.91	11.69	9.71	9.57	6.56	6.35	9.95	9.58	9.59	9.37
Arizona	12.42	12.28	10.66	10.58	6.54	6.01	9.16	9.40	10.75	10.48
Colorado	12.14	11.94	9.92	9.53	7.31	7.02	10.07	9.50	9.96	9.68
Idaho	10.10	10.04	8.05	7.83	6.87	6.73	--	--	8.33	8.15
Montana	11.05	11.02	10.17	10.15	5.14	5.01	--	--	8.99	8.89
Nevada	11.82	11.38	7.88	8.07	6.14	5.97	8.42	7.86	8.75	8.50
New Mexico	12.99	11.93	10.39	9.78	6.11	5.76	--	--	9.79	9.14
Utah	11.20	11.18	8.84	8.86	6.25	6.43	10.13	9.96	8.82	8.87
Wyoming	11.37	11.15	9.74	9.41	6.93	6.93	--	--	8.30	8.20
Pacific Contiguous	15.12	14.66	13.65	13.22	9.36	9.13	8.48	8.85	13.28	12.83
California	18.38	17.55	15.71	15.08	12.56	12.11	8.45	8.83	16.06	15.35
Oregon	10.69	10.55	8.88	8.83	6.17	6.14	9.31	9.24	8.96	8.84
Washington	9.51	9.35	8.44	8.34	4.64	4.50	9.02	9.01	7.87	7.67
Pacific Noncontiguous	25.84	24.33	23.24	21.39	20.95	18.97	--	--	23.28	21.46
Alaska	21.45	20.48	19.63	18.17	16.77	15.31	--	--	19.59	18.27
Hawaii	29.30	27.25	26.48	24.24	22.56	20.32	--	--	25.74	23.52
U.S. Total	12.91	12.54	10.67	10.36	6.91	6.73	9.72	9.50	10.55	10.28

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,092,578	18,139,923	811,825	83	150,044,409
Year 2015					
January	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
Year 2016					
January	130,338,099	17,991,439	804,007	77	149,133,622
February	130,108,685	18,008,942	799,795	80	148,917,502
March	131,347,329	18,177,656	810,362	86	150,335,433
April	130,487,840	18,048,726	797,985	83	149,334,634
May	131,044,577	18,110,084	813,813	86	149,968,560
June	131,330,842	18,162,550	827,304	86	150,320,782
July	131,138,573	18,138,230	821,488	82	150,098,373
August	131,372,255	18,209,116	832,566	82	150,414,019
Sept	131,392,256	18,200,641	820,906	82	150,413,885
October	131,335,623	18,202,781	813,555	83	150,352,042
November	131,340,409	18,176,864	799,953	83	150,317,309
December	131,874,453	18,252,051	800,163	83	150,926,750
Year 2017					
January	131,833,179	18,232,721	804,348	83	150,870,331
February	131,335,983	18,145,698	793,112	85	150,274,878
March	132,712,308	18,331,082	812,438	83	151,855,911
April	131,803,304	18,178,402	797,849	84	150,779,639
May	133,114,778	18,342,112	824,384	84	152,281,358
June	132,811,370	18,345,281	832,494	84	151,989,229
July	132,296,421	18,350,876	826,766	85	151,474,148
August	132,982,258	18,426,119	849,093	85	152,257,555
Rolling 12 Months Ending in August					
2016	130,668,830	18,094,370	822,805	81	149,586,086
2017	132,069,362	18,265,386	814,588	84	151,149,420

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2015 and prior years are final. Values for 2017 and 2016 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State: August 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	6,319,995	6,306,182	889,273	882,840	26,873	26,071	6	6	7,236,147	7,215,099
Connecticut	1,496,546	1,488,296	153,008	152,416	4,420	4,407	3	3	1,653,977	1,645,122
Maine	715,106	711,183	100,718	100,401	3,159	3,095	0	0	818,983	814,679
Massachusetts	2,728,472	2,736,589	411,478	406,919	14,039	13,267	2	2	3,153,991	3,156,777
New Hampshire	619,751	615,928	107,593	108,552	3,243	3,269	0	0	730,587	727,749
Rhode Island	444,832	440,150	60,122	59,110	1,788	1,820	1	1	506,743	501,081
Vermont	315,288	314,036	56,354	55,442	224	213	0	0	371,866	369,691
Middle Atlantic	16,052,689	15,961,237	2,309,764	2,289,793	42,234	42,614	20	20	18,404,707	18,293,664
New Jersey	3,540,666	3,518,609	518,124	515,476	11,816	11,846	6	6	4,070,612	4,045,937
New York	7,147,947	7,107,163	1,092,816	1,075,553	7,577	7,598	8	8	8,248,348	8,190,322
Pennsylvania	5,364,076	5,335,465	698,824	698,764	22,841	23,170	6	6	6,085,747	6,057,405
East North Central	20,112,877	19,983,395	2,491,385	2,474,363	53,320	52,300	9	8	22,657,591	22,510,066
Illinois	5,274,194	5,239,478	609,997	605,993	5,722	5,521	3	3	5,889,916	5,850,995
Indiana	2,828,536	2,810,104	350,936	348,311	17,723	17,497	1	1	3,197,196	3,175,913
Michigan	4,362,481	4,328,946	549,484	544,680	NM	NM	2	1	4,917,852	4,879,376
Ohio	4,950,325	4,928,018	626,180	624,501	19,084	18,785	2	2	5,595,591	5,571,306
Wisconsin	2,697,341	2,676,849	354,788	350,878	NM	NM	1	1	3,057,036	3,032,476
West North Central	9,479,323	9,386,153	1,457,843	1,439,994	116,840	114,895	3	3	11,054,009	10,941,045
Iowa	1,385,603	1,369,901	243,851	240,508	NM	NM	0	0	1,636,411	1,617,259
Kansas	1,270,737	1,261,481	234,884	233,691	26,186	26,058	0	0	1,531,807	1,521,230
Minnesota	2,395,830	2,368,966	289,485	285,611	NM	NM	1	1	2,693,629	2,662,781
Missouri	2,791,761	2,768,285	380,456	376,183	8,390	8,340	2	2	3,180,609	3,152,810
Nebraska	856,505	846,310	162,218	159,084	55,920	54,468	0	0	1,074,643	1,059,862
North Dakota	378,438	375,518	73,452	72,435	7,982	7,921	0	0	459,872	455,874
South Dakota	400,449	395,692	73,497	72,482	NM	NM	0	0	477,038	471,229
South Atlantic	27,666,380	27,286,292	3,783,655	3,754,935	80,498	80,025	13	13	31,530,546	31,121,265
Delaware	424,367	419,173	54,051	53,157	1,189	1,120	0	0	479,607	473,450
District of Columbia	268,746	259,828	26,155	25,892	1	1	3	3	294,905	285,724
Florida	9,270,815	9,135,069	1,228,399	1,214,830	20,918	20,751	2	2	10,520,134	10,370,652
Georgia	4,338,422	4,274,482	581,438	577,307	19,907	19,364	1	1	4,939,768	4,871,154
Maryland	2,317,270	2,292,783	252,394	250,757	8,849	8,820	5	5	2,578,518	2,552,365
North Carolina	4,510,597	4,444,413	703,729	696,955	10,000	10,019	1	1	5,224,327	5,151,388
South Carolina	2,269,086	2,231,552	364,554	360,606	4,326	4,470	0	0	2,637,966	2,596,628
Virginia	3,409,735	3,370,878	428,771	432,460	3,782	3,792	1	1	3,842,289	3,807,131
West Virginia	857,342	858,114	144,164	142,971	11,526	11,688	0	0	1,013,032	1,012,773
East South Central	8,422,890	8,333,753	1,394,875	1,383,549	25,221	25,023	0	0	9,842,986	9,742,325
Alabama	2,245,765	2,225,027	370,023	368,696	8,251	8,170	0	0	2,624,039	2,601,893
Kentucky	1,988,403	1,972,007	301,093	298,058	7,717	7,658	0	0	2,297,213	2,277,723
Mississippi	1,313,048	1,299,854	238,116	238,216	7,846	7,843	0	0	1,559,010	1,545,913
Tennessee	2,875,674	2,836,865	485,643	478,579	1,407	1,352	0	0	3,362,724	3,316,796
West South Central	15,959,390	15,656,266	2,248,465	2,176,100	199,632	187,169	6	6	18,407,493	18,019,541
Arkansas	1,386,506	1,375,538	191,627	190,459	40,580	41,438	2	2	1,618,715	1,607,437
Louisiana	2,084,250	2,071,608	292,850	292,883	18,841	18,769	1	1	2,395,942	2,383,261
Oklahoma	1,771,979	1,754,014	284,244	282,634	18,067	18,066	0	0	2,074,290	2,054,714
Texas	10,716,655	10,455,106	1,479,744	1,410,124	122,144	108,896	3	3	12,318,546	11,974,129
Mountain	9,665,090	9,524,794	1,383,942	1,369,123	91,474	90,822	5	4	11,140,511	10,984,743
Arizona	2,750,021	2,706,937	320,859	316,286	6,906	6,769	2	1	3,077,788	3,029,993
Colorado	2,290,094	2,260,095	361,185	357,975	14,685	14,701	1	1	2,665,965	2,632,772
Idaho	728,183	714,912	108,895	107,417	28,533	28,275	0	0	865,611	850,604
Montana	506,757	500,112	109,021	107,205	9,864	9,658	0	0	625,642	616,975
Nevada	1,165,656	1,149,748	163,247	162,197	NM	3,529	1	1	1,332,391	1,315,475
New Mexico	899,129	888,895	138,852	138,065	8,584	8,594	0	0	1,046,565	1,035,554
Utah	1,053,393	1,033,370	122,946	121,319	9,602	9,582	1	1	1,185,942	1,164,272
Wyoming	271,857	270,725	58,937	58,659	9,813	9,714	0	0	340,607	339,098
Pacific Contiguous	18,582,641	18,218,149	2,351,637	2,324,210	210,799	211,468	23	22	21,145,100	20,753,849
California	13,796,593	13,506,419	1,719,295	1,708,967	154,832	155,693	15	15	15,670,735	15,371,094
Oregon	1,741,700	1,719,973	239,009	235,428	26,578	26,450	2	2	2,007,289	1,981,853
Washington	3,044,348	2,991,757	393,333	379,815	29,389	29,325	6	5	3,467,076	3,400,902
Pacific Noncontiguous	720,983	716,034	115,280	114,209	NM	NM	0	0	838,465	832,422
Alaska	288,299	285,192	53,793	53,005	NM	NM	0	0	343,505	339,579
Hawaii	432,684	430,842	61,487	61,204	789	797	0	0	494,960	492,843
U.S. Total	132,982,258	131,372,255	18,426,119	18,209,116	849,093	832,566	85	82	152,257,555	150,414,019

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

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

		As of End of July 2017	Activity During August 2017 as Reported to EIA		As of End of August 2017	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	83,871.0	195.5	0.0	84,066.5	195.5	2,784.3	9,317.9	685.2	6,077.5	0.0	17.0	685.2	6,060.5	84,751.7	90,127.0
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	29.3	0.0	0.0	29.3	0.0	0.0	29.3	0.0	0.0	0.0	0.0	0.0	0.0	29.3	29.3
..... Wind (Summer Capacity)	Utility Scale Facilities	83,900.3	195.5	0.0	84,095.8	195.5	2,784.3	9,347.2	685.2	6,077.5	0.0	17.0	685.2	6,060.5	84,781.0	90,156.3
..... Solar Photovoltaic	Utility Scale Facilities	22,175.0	190.1	51.5	22,313.6	138.6	2,543.3	7,236.4	570.5	4,630.1	0.0	0.0	570.5	4,630.1	22,884.1	26,943.7
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,352.5	0.0	0.0	1,352.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,352.5	1,352.5
..... Solar Thermal with Energy Storage	Utility Scale Facilities	405.4	0.0	0.0	405.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	405.4	405.4
..... Solar Subtotal	Utility Scale Facilities	23,932.9	190.1	51.5	24,071.5	138.6	2,543.3	7,236.4	570.5	4,630.1	0.0	0.0	570.5	4,630.1	24,642.0	28,701.6
..... Conventional Hydroelectric	Utility Scale Facilities	80,083.6	157.5	225.1	80,016.0	-67.6	30.6	76.0	0.0	233.5	0.0	6.2	0.0	227.3	80,016.0	80,243.3
..... Wood/Wood Waste Biomass	Utility Scale Facilities	9,118.9	0.0	1.4	9,117.5	-1.4	174.2	181.2	0.0	94.4	0.0	0.0	0.0	94.4	9,117.5	9,211.9
..... Landfill Gas	Utility Scale Facilities	2,114.5	0.9	0.9	2,114.5	0.0	-2.0	-4.9	0.0	1.6	0.0	2.3	0.0	-0.7	2,114.5	2,113.8
..... Municipal Solid Waste	Utility Scale Facilities	2,246.8	0.0	0.0	2,246.8	0.0	-0.3	-0.3	0.0	0.0	0.0	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	17.5	-23.2	0.0	54.2	0.0	0.0	0.0	54.2	788.5	842.7
..... Biomass Sources Subtotal	Utility Scale Facilities	14,268.7	0.9	2.3	14,267.3	-1.4	189.4	152.8	0.0	150.2	0.0	2.3	0.0	147.9	14,267.3	14,415.2
..... Geothermal	Utility Scale Facilities	2,456.6	0.0	0.0	2,456.6	0.0	-54.9	-84.9	0.0	37.0	0.0	0.0	0.0	37.0	2,456.6	2,493.6
... Renewable Sources Subtotal	**Utility Scale Facilities**	**204,642.1**	**544.0**	**278.9**	**204,907.2**	**265.1**	**5,492.7**	**16,727.5**	**1,255.7**	**11,128.3**	**0.0**	**25.5**	**1,255.7**	**11,102.8**	**206,162.9**	**216,010.0**
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	245,187.5	41.6	11.3	245,217.8	30.3	5,698.6	5,735.1	40.0	15,562.1	0.0	0.0	40.0	15,562.1	245,257.8	260,779.9
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	127,511.7	231.2	818.3	126,924.6	-587.1	177.5	2,251.7	86.0	3,447.5	0.0	166.3	86.0	3,281.2	127,010.6	130,205.8
..... Natural Gas Steam Turbine	Utility Scale Facilities	76,224.1	40.3	146.0	76,118.4	-105.7	-307.8	-2,450.5	0.0	0.0	0.0	1,840.9	0.0	-1,840.9	76,118.4	74,277.5
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	4,276.0	53.1	0.1	4,329.0	53.0	290.2	511.5	0.0	157.2	0.9	0.9	-0.9	156.3	4,328.1	4,485.3
..... 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	120.4	1.4	0.0	121.8	1.4	5.5	14.7	0.0	30.6	0.0	0.0	0.0	30.6	121.8	152.4
..... Natural Gas Subtotal	Utility Scale Facilities	453,429.7	367.6	975.7	452,821.6	-608.1	5,864.0	6,062.5	126.0	19,197.4	0.9	2,008.1	125.1	17,189.3	452,946.7	470,010.9
..... Conventional Steam Coal	Utility Scale Facilities	261,558.7	24.5	109.0	261,474.2	-84.5	-7,771.7	-9,103.7	0.0	0.0	0.0	7,767.0	0.0	-7,767.0	261,474.2	253,707.2
..... Coal Integrated Gasification Combined Cycle	Utility Scale Facilities	815.0	0.0	0.0	815.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	815.0	815.0
..... Coal Subtotal	Utility Scale Facilities	262,373.7	24.5	109.0	262,289.2	-84.5	-7,771.7	-9,103.7	0.0	0.0	0.0	7,767.0	0.0	-7,767.0	262,289.2	254,522.2
..... Petroleum Coke	Utility Scale Facilities	1,466.7	0.0	0.0	1,466.7	0.0	-73.6	-73.6	0.0	0.0	0.0	0.0	0.0	0.0	1,466.7	1,466.7
..... Petroleum Liquids	Utility Scale Facilities	32,175.2	44.4	5.3	32,214.3	39.1	-2,643.3	-2,654.5	2.0	24.2	1.9	138.5	0.1	-114.3	32,214.4	32,100.0
..... Other Gases	Utility Scale Facilities	2,455.5	2.0	0.6	2,456.9	1.4	-40.3	-40.3	0.0	0.0	0.0	0.0	0.0	0.0	2,456.9	2,456.9
... Fossil Fuels Subtotal	**Utility Scale Facilities**	**751,970.8**	**438.5**	**1,160.6**	**751,248.7**	**-722.1**	**-4,664.9**	**-5,809.6**	**128.0**	**19,221.6**	**2.8**	**9,913.6**	**125.2**	**9,308.0**	**751,373.9**	**760,556.7**
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,808.7	0.0	0.0	22,808.7	0.0	138.6	138.6	0.0	57.0	0.0	0.0	0.0	57.0	22,808.7	22,865.7
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	657.5	31.8	0.0	689.3	31.8	149.6	268.6	2.0	77.2	0.0	0.0	2.0	77.2	691.3	766.5
... Energy Storage Subtotal	**Utility Scale Facilities**	**23,508.2**	**31.8**	**0.0**	**23,540.0**	**31.8**	**286.2**	**405.2**	**2.0**	**134.2**	**0.0**	**0.0**	**2.0**	**134.2**	**23,542.0**	**23,674.2**
... Nuclear	**Utility Scale Facilities**	**99,491.1**	**104.0**	**13.3**	**99,581.8**	**90.7**	**265.9**	**-212.2**	**0.0**	**22.0**	**0.0**	**0.0**	**0.0**	**22.0**	**99,581.8**	**99,603.8**
... All Other	**Utility Scale Facilities**	**1,377.2**	**0.0**	**0.0**	**1,377.2**	**0.0**	**-107.6**	**-107.6**	**0.0**	**54.8**	**0.0**	**0.0**	**0.0**	**54.8**	**1,377.2**	**1,432.0**
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,989.4**	**1,118.3**	**1,452.8**	**1,080,654.9**	**-334.5**	**1,272.3**	**11,003.3**	**1,385.7**	**30,560.9**	**2.8**	**9,939.1**	**1,382.9**	**20,621.8**	**1,082,037.8**	**1,101,276.7**
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	15,106.6			15,385.8	279.2	2,202.6	3,322.3								
..... Estimated Total Solar Photovoltaic	All Facilities	37,281.6			37,699.4	417.8	4,745.9	10,558.7								
... Estimated Total Solar	**All Facilities**	**39,039.5**			**39,457.3**	**417.8**	**4,745.9**	**10,558.7**								

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 - August 2017

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	19,770.3	13,183.2	32,953.5
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
Year 2016			
January	12,272.1	10,226.8	22,498.9
February	12,401.5	10,486.5	22,888.0
March	12,583.1	10,809.5	23,392.6
April	13,123.6	11,069.8	24,193.4
May	13,231.7	11,311.7	24,543.4
June	13,420.2	11,568.8	24,989.0
July	14,145.5	11,781.0	25,926.5
August	15,077.2	12,063.5	27,140.7
Sept	15,844.7	12,305.5	28,150.2
October	16,408.2	12,567.0	28,975.2
November	16,950.8	12,855.4	29,806.2
December	19,770.3	13,183.2	32,953.5
Year 2017			
January	20,135.6	13,348.4	33,484.0
February	20,327.7	13,807.7	34,135.4
March	20,765.0	14,107.5	34,872.5
April	21,350.7	14,282.4	35,633.1
May	21,747.1	14,509.8	36,256.9
June	21,991.3	14,690.5	36,681.8
July	22,175.0	15,106.6	37,281.6
August	22,313.6	15,385.8	37,699.4

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

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

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,421.2	4,680.8	1,081.2	13,183.2
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,352.9	3,991.9	882.0	10,226.8
February	5,550.7	4,033.4	902.4	10,486.5
March	5,775.1	4,104.2	930.3	10,809.5
April	5,972.7	4,149.0	948.1	11,069.8
May	6,159.1	4,188.8	963.7	11,311.7
June	6,352.0	4,239.0	977.7	11,568.8
July	6,512.3	4,271.8	996.9	11,781.0
August	6,704.7	4,343.1	1,015.8	12,063.5
Sept	6,873.9	4,404.9	1,026.7	12,305.5
October	7,060.2	4,469.8	1,037.0	12,567.0
November	7,241.6	4,565.7	1,048.1	12,855.4
December	7,421.2	4,680.8	1,081.2	13,183.2
Year 2017				
January	7,548.4	4,710.9	1,089.1	13,348.4
February	7,890.4	4,704.1	1,213.2	13,807.7
March	8,070.1	4,726.7	1,310.7	14,107.5
April	8,249.1	4,711.8	1,321.5	14,282.4
May	8,483.5	4,689.3	1,337.1	14,509.8
June	8,565.2	4,755.4	1,369.9	14,690.5
July	8,725.1	4,986.9	1,394.5	15,106.6
August	8,904.5	5,068.0	1,413.3	15,385.8

Values are preliminary.

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

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	5,586.9	5,111.8	21,288.6	22,722.5	1,797.4	1,797.4	22.3	4.0	4,015.9	4,018.0	48.0	48.0	32,759.1	33,701.7
Connecticut	358.0	337.7	6,339.7	6,307.1	29.4	29.4	1.6	0.0	2,087.8	2,087.8	26.0	26.0	8,842.5	8,788.0
Maine	2,435.0	2,190.4	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,915.7	4,654.9
Massachusetts	1,170.6	1,016.7	8,340.0	9,811.0	1,768.0	1,768.0	2.5	2.0	677.2	682.3	0.0	0.0	11,958.3	13,280.0
New Hampshire	928.9	932.5	2,262.9	2,270.9	0.0	0.0	0.0	0.0	1,250.9	1,247.9	0.0	0.0	4,442.7	4,451.3
Rhode Island	104.8	67.8	1,805.6	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,910.4	1,859.1
Vermont	589.6	566.7	97.9	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	689.5	668.4
Middle Atlantic	10,949.7	10,714.1	68,232.8	69,290.8	3,409.1	3,409.1	70.4	70.5	19,304.3	19,224.5	11.2	11.2	101,977.5	102,720.2
New Jersey	881.9	745.6	12,338.9	13,588.3	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	17,759.9	18,873.0
New York	7,185.3	7,112.1	26,115.1	25,956.4	1,406.1	1,406.1	20.0	20.0	5,399.4	5,397.6	0.0	0.0	40,125.9	39,892.2
Pennsylvania	2,882.5	2,856.4	29,778.8	29,746.1	1,583.0	1,583.0	50.4	50.5	9,797.0	9,719.0	0.0	0.0	44,091.7	43,955.0
East North Central	10,925.3	10,226.8	114,039.6	113,902.0	2,133.0	2,037.0	187.4	177.4	19,019.3	18,896.1	110.1	110.1	146,414.7	145,349.4
Illinois	4,172.4	3,977.0	28,974.0	29,438.3	0.0	0.0	112.4	112.4	11,587.3	11,589.6	0.0	0.0	44,846.1	45,117.3
Indiana	2,305.5	2,167.1	23,121.0	23,353.9	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	25,537.5	25,632.0
Michigan	2,469.8	2,253.1	20,785.2	20,959.7	2,133.0	2,037.0	0.0	0.0	4,105.4	3,976.5	0.0	0.0	29,493.4	29,226.3
Ohio	851.7	717.8	26,659.6	25,800.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	29,698.3	28,694.8
Wisconsin	1,125.9	1,111.8	14,499.8	14,350.1	0.0	0.0	0.0	0.0	1,192.6	1,196.0	21.1	21.1	16,839.4	16,679.0
West North Central	25,717.0	21,782.5	60,920.6	60,582.6	657.0	657.0	2.0	2.0	5,394.9	5,855.5	24.5	24.5	92,716.0	88,904.1
Iowa	7,102.6	6,352.8	9,956.3	9,532.2	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,660.3	16,486.4
Kansas	5,131.4	3,863.7	9,771.1	9,716.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	16,078.3	14,756.3
Minnesota	4,576.2	4,119.6	10,087.6	10,132.6	0.0	0.0	1.0	1.0	1,657.0	1,647.0	18.4	18.4	16,340.2	15,918.6
Missouri	1,247.7	1,043.6	18,578.4	18,659.1	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,674.1	21,550.7
Nebraska	1,629.5	1,225.5	6,215.5	6,236.1	0.0	0.0	0.0	0.0	771.5	1,242.1	0.0	0.0	8,616.5	8,703.7
North Dakota	3,592.8	2,741.5	4,624.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.7	7,362.3
South Dakota	2,436.8	2,435.8	1,687.1	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,126.1
South Atlantic	17,202.2	14,760.2	160,058.0	159,510.6	7,905.2	7,905.2	80.5	77.5	24,598.6	24,578.6	402.7	509.7	210,247.2	207,341.8
Delaware	46.4	44.9	3,329.5	3,359.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,375.9	3,404.4
District of Columbia	12.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
Florida	1,733.8	1,443.9	53,400.9	53,862.4	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	59,055.4	59,227.0
Georgia	4,008.6	3,424.4	26,968.8	26,956.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,901.6	36,305.5
Maryland	1,061.0	1,038.1	10,287.3	9,556.7	0.0	0.0	13.0	11.0	1,707.8	1,707.8	0.0	0.0	13,069.1	12,313.6
North Carolina	5,559.0	4,318.7	21,646.9	22,021.3	86.0	86.0	1.0	0.0	5,113.6	5,113.6	54.0	161.0	32,460.5	31,700.6
South Carolina	1,870.3	1,790.4	11,529.3	11,633.0	2,716.0	2,716.0	0.0	0.0	6,576.2	6,556.2	0.0	0.0	22,691.8	22,695.6
Virginia	1,875.3	1,757.8	18,723.0	17,948.5	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,407.3	26,515.3
West Virginia	1,035.8	930.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,264.6	15,158.8
East South Central	8,559.6	8,214.6	65,711.2	65,848.3	1,616.3	1,616.3	0.0	0.0	10,984.1	10,990.1	1.4	1.4	86,872.6	86,670.7
Alabama	4,089.6	3,939.9	20,227.7	20,214.5	0.0	0.0	0.0	0.0	5,060.4	5,066.4	0.0	0.0	29,377.7	29,220.8
Kentucky	1,222.5	1,110.9	18,874.3	19,004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,096.8	20,115.4
Mississippi	333.3	274.7	14,302.0	14,315.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	16,037.7	15,992.5
Tennessee	2,914.2	2,889.1	12,307.2	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,360.4	21,342.0
West South Central	33,251.0	28,721.7	143,901.6	144,796.9	286.0	286.0	71.0	41.0	8,910.7	8,896.2	520.1	527.2	186,940.4	183,269.0
Arkansas	1,620.1	1,591.6	11,245.2	11,256.6	28.0	28.0	0.0	0.0	1,817.8	1,808.5	0.0	0.0	14,711.1	14,684.7
Louisiana	682.1	687.1	20,946.0	22,510.4	0.0	0.0	0.0	0.0	2,132.9	2,127.7	296.1	290.9	24,057.1	25,616.1
Oklahoma	7,684.9	6,389.5	18,176.7	18,218.2	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,119.6	24,865.7
Texas	23,263.9	20,053.5	93,533.7	92,811.7	0.0	0.0	71.0	41.0	4,960.0	4,960.0	224.0	236.3	122,052.6	118,102.5
Mountain	25,497.6	23,091.4	63,600.9	64,087.8	778.8	778.8	43.6	2.6	3,937.0	3,937.0	126.3	119.8	93,984.2	92,017.4
Arizona	4,995.3	4,587.4	19,407.3	19,382.4	216.3	216.3	40.0	0.0	3,937.0	3,937.0	0.0	0.0	28,595.9	28,123.1
Colorado	4,164.4	3,873.1	11,349.0	11,363.0	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	16,086.2	15,807.9
Idaho	4,013.3	3,816.1	1,148.1	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,176.2	4,988.4
Montana	3,437.3	3,414.1	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,221.7	6,198.5
Nevada	3,444.4	2,800.3	7,991.6	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	11,442.5	11,059.0
New Mexico	2,061.0	1,587.8	6,828.3	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,891.9	8,527.3
Utah	1,587.5	1,298.2	7,348.2	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,975.9	8,800.8
Wyoming	1,794.4	1,714.4	6,788.0	6,786.5	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,593.9	8,512.4
Pacific Contiguous	66,089.8	64,470.2	49,278.7	52,157.4	4,225.9	4,183.3	169.6	33.7	3,417.0	3,398.0	106.3	106.3	123,287.3	124,348.9
California	29,222.7	27,676.6	40,204.8	42,969.9	3,911.9	3,869.3	157.0	25.5	2,240.0	2,240.0	106.3	106.3	75,842.7	76,887.6
Oregon	12,068.4	12,042.5	4,318.1	4,372.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,391.5	16,420.3
Washington	24,798.7	24,751.1	4,755.8	4,814.7	314.0	314.0	7.6	3.2	1,177.0	1,158.0	0.0	0.0	31,053.1	31,041.0
Pacific Noncontiguous	1,128.1	1,086.4	4,216.7	4,159.4	0.0	0.0	84.5	56.0	0.0	0.0	26.6	26.6	5,455.9	5,328.4
Alaska	538.0	508.7	2,159.5	2,102.2	0.0	0.0	45.0	29.0	0.0	0.0	0.0	0.0	2,742.5	2,639.9
Hawaii	590.1	577.7	2,057.2	2,057.2	0.0	0.0	39.5	27.0	0.0	0.0	26.6	26.6	2,713.4	2,688.5
U.S. Total	204,907.2	188,179.7	751,248.7	757,058.3	22,808.7	22,670.1	731.3	464.7	99,581.8	99,794.0	1,377.2	1,484.8	1,080,654.9	1,069,651.6

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

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

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	1,347.9	1,069.6	635.6	438.3	0.0	0.0	1,957.4	1,955.2	1,646.0	1,648.7	0.0	0.0	5,586.9	5,111.8	1,654.7	1,275.3	2,290.3	1,713.6	2,290.3	1,713.6
Connecticut	1.1	1.1	31.2	15.2	0.0	0.0	122.2	122.2	203.5	199.2	0.0	0.0	358.0	337.7	302.9	238.1	334.1	253.3	334.1	253.3
Maine	898.8	652.7	0.0	0.0	0.0	0.0	732.4	728.9	803.8	808.8	0.0	0.0	2,435.0	2,190.4	28.7	20.6	28.7	20.6	28.7	20.6
Massachusetts	92.9	94.5	528.5	373.0	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,170.6	1,016.7	1,132.6	902.0	1,661.1	1,275.0	1,661.1	1,275.0
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	244.6	0.0	0.0	928.9	932.5	67.2	41.2	67.2	41.2	67.2	41.2
Rhode Island	51.8	18.0	10.2	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	104.8	67.8	39.3	14.5	49.5	24.7	49.5	24.7
Vermont	120.2	120.2	65.7	39.9	0.0	0.0	329.4	330.7	74.3	75.9	0.0	0.0	589.6	566.7	84.0	58.9	149.7	98.8	149.7	98.8
Middle Atlantic	3,204.1	3,088.1	807.2	637.3	0.0	0.0	5,630.7	5,623.5	1,307.7	1,365.2	0.0	0.0	10,949.7	10,714.1	2,532.8	2,059.2	3,340.0	2,696.5	3,340.0	2,696.5
New Jersey	7.6	7.6	634.7	496.6	0.0	0.0	12.3	12.3	227.3	229.1	0.0	0.0	881.9	745.6	1,355.8	1,193.0	1,990.5	1,689.6	1,990.5	1,689.6
New York	1,824.7	1,747.0	121.7	96.3	0.0	0.0	4,718.8	4,711.6	520.1	557.2	0.0	0.0	7,185.3	7,112.1	910.7	661.1	1,032.4	757.4	1,032.4	757.4
Pennsylvania	1,371.8	1,333.5	50.8	44.4	0.0	0.0	899.6	899.6	560.3	578.9	0.0	0.0	2,882.5	2,856.4	266.3	205.1	317.1	249.5	317.1	249.5
East North Central	8,422.7	7,814.1	350.3	228.2	0.0	0.0	853.1	913.2	1,299.2	1,271.3	0.0	0.0	10,925.3	10,226.8	229.7	164.3	580.0	392.5	580.0	392.5
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	121.7	110.3	0.0	0.0	4,172.4	3,977.0	41.9	24.5	74.7	57.3	74.7	57.3
Indiana	1,989.7	1,889.7	172.6	139.5	0.0	0.0	60.4	60.4	82.8	77.5	0.0	0.0	2,305.5	2,167.1	22.4	9.0	195.0	148.5	195.0	148.5
Michigan	1,583.8	1,360.1	62.5	7.9	0.0	0.0	263.0	324.6	560.5	560.5	0.0	0.0	2,469.8	2,253.1	NM	30.8	NM	38.7	NM	38.7
Ohio	533.9	433.1	67.5	44.9	0.0	0.0	101.9	101.9	148.4	137.9	0.0	0.0	851.7	717.8	90.2	76.0	157.7	120.9	157.7	120.9
Wisconsin	331.5	331.4	14.9	3.1	0.0	0.0	393.7	392.2	385.8	385.1	0.0	0.0	1,125.9	1,111.8	37.4	24.0	52.3	27.1	52.3	27.1
West North Central	21,448.1	17,918.0	426.4	35.5	0.0	0.0	3,289.4	3,278.1	553.1	550.9	0.0	0.0	25,717.0	21,782.5	231.9	176.9	658.3	212.4	658.3	212.4
Iowa	6,933.7	6,184.7	2.6	0.0	0.0	0.0	144.9	144.9	21.4	23.2	0.0	0.0	7,102.6	6,352.8	56.0	36.2	58.6	36.2	58.6	36.2
Kansas	5,113.2	3,846.7	2.2	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,131.4	3,863.7	9.2	6.1	11.4	7.1	11.4	7.1
Minnesota	3,506.5	3,440.7	383.1	7.6	0.0	0.0	205.9	194.6	480.7	476.7	0.0	0.0	4,576.2	4,119.6	37.6	25.6	420.7	33.2	420.7	33.2
Missouri	654.3	458.5	31.2	22.9	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,247.7	1,043.6	125.0	106.6	156.2	129.5	156.2	129.5
Nebraska	1,329.6	927.9	6.3	4.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,225.5	3.1	1.6	9.4	5.6	9.4	5.6
North Dakota	3,073.0	2,221.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	2,741.5	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,435.8	0.7	0.6	1.7	0.6	1.7	0.6
South Atlantic	1,086.3	775.3	4,487.2	2,561.7	0.0	0.0	7,271.6	7,249.3	4,357.1	4,173.9	0.0	0.0	17,202.2	14,760.2	1,401.0	1,004.7	5,888.2	3,566.4	5,888.2	3,566.4
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	94.4	77.6	126.6	108.3	126.6	108.3
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	48.6	35.6	48.6	35.6	48.6	35.6
Florida	0.0	0.0	382.6	100.8	0.0	0.0	54.5	54.5	1,296.7	1,288.6	0.0	0.0	1,733.8	1,443.9	177.4	144.3	560.0	245.1	560.0	245.1
Georgia	0.0	0.0	969.5	481.5	0.0	0.0	2,047.2	2,045.1	991.9	897.8	0.0	0.0	4,008.6	3,424.4	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	139.0	116.1	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,061.0	1,038.1	665.5	495.2	804.5	611.3	804.5	611.3
North Carolina	208.0	0.0	2,784.9	1,827.1	0.0	0.0	2,002.0	2,004.1	564.1	487.5	0.0	0.0	5,559.0	4,318.7	120.3	96.6	2,905.2	1,923.7	2,905.2	1,923.7
South Carolina	0.0	0.0	62.1	2.5	0.0	0.0	1,362.4	1,345.1	445.8	442.8	0.0	0.0	1,870.3	1,790.4	102.4	24.9	164.5	27.4	164.5	27.4
Virginia	0.0	0.0	116.9	3.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,875.3	1,757.8	52.6	27.3	169.5	30.3	169.5	30.3
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	349.5	344.5	0.0	2.2	0.0	0.0	1,035.8	930.0	5.3	4.1	5.3	4.1	5.3	4.1
East South Central	29.1	29.1	231.9	55.2	0.0	0.0	7,029.1	6,919.8	1,269.5	1,210.5	0.0	0.0	8,559.6	8,214.6	77.8	55.8	309.7	111.0	309.7	111.0
Alabama	0.0	0.0	93.0	0.0	0.0	0.0	3,270.2	3,271.0	726.4	668.9	0.0	0.0	4,089.6	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	10.0	0.0	0.0	1,140.3	1,030.2	72.2	70.7	0.0	0.0	1,222.5	1,110.9	16.4	10.8	26.4	20.8	26.4	20.8
Mississippi	0.0	0.0	58.6	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	333.3	274.7	4.6	3.0	63.2	3.0	63.2	3.0
Tennessee	29.1	29.1	70.3	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,914.2	2,889.1	52.3	39.5	122.6	84.7	122.6	84.7
West South Central	27,883.8	23,927.8	990.3	434.4	0.0	0.0	2,990.3	2,986.5	1,386.6	1,373.0	0.0	0.0	33,251.0	28,721.7	548.8	341.2	1,539.1	775.6	1,539.1	775.6
Arkansas	0.0	0.0	13.0	13.0	0.0	0.0	1,266.7	1,266.2	340.4	312.4	0.0	0.0	1,620.1	1,591.6	6.3	4.5	19.3	17.5	19.3	17.5
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	490.1	495.1	0.0	0.0	682.1	687.1	128.0	116.8	128.0	116.8	128.0	116.8
Oklahoma	6,743.2	5,451.2	2.5	2.5	0.0	0.0	861.6	859.6	77.6	76.2	0.0	0.0	7,684.9	6,389.5	4.5	3.0	7.0	5.5	7.0	5.5
Texas	21,140.6	18,476.6	974.8	418.9	0.0	0.0	670.0	668.7	478.5	489.3	0.0	0.0	23,263.9	20,053.5	410.1	216.9	1,384.9	635.8	1,384.9	635.8
Mountain	8,434.4	7,903.1	5,307.7	3,421.7	473.9	473.9	10,562.8	10,561.7	174.5	186.2	544.3	544.8	25,497.6	23,091.4	1,753.2	1,541.6	7,060.9	4,963.3	7,534.8	5,437.2
Arizona	267.3	267.3	1,681.0	1,273.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,995.3	4,587.4	947.4	864.6	2,628.4	2,137.7	2,923.8	2,433.1
Colorado	3,026.1	2,961.8	422.2	206.2	0.0	0.0	687.4	677.7	28.7	27.4	0.0	0.0	4,164.4	3,873.1	318.9	276.8	741.1	483.0	741.1	483.0
Idaho	970.5	962.7	240.0	40.0	0.0	0.0	2,708.9	2,707.7	83.9	95.7	10.0	10.0	4,013.3	3,816.1	10.5	6.3	250.5	46.3	250.5	46.3
Montana	678.5	653.5	8.0	0.0	0.0	0.0	2,747.8	2,757.6	3.0	3.0	0.0	0.0	3,437.3	3,414.1	9.9	7.3	17.9	7.3	17.9	7.3
Nevada	150.0	150.0	1,595.0	950.6	178.5	178.5	1,051.4	1,051.4	9.8	9.6	459.7	460.2	3,444.4	2,800.3	184.4	205.8	1,779.4	1,156.4	1,957.9	1,334.9
New Mexico	1,466.5	1,112.3	504.4	385.4	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,061.0	1,587.8	109.7	87.2	614.1	472.6	614.1	472.6
Utah	388.2	388.2	857.1	566.4	0.0	0.0	256.4	256.4	12.8	14.2	73.0	73.0	1,587.5	1,298.2	169.5	91.5	1,026.6	657.9	1,026.6	657.9
Wyoming	1,487.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,714.4	NM	2.1	NM	2.1	NM	2.1
Pacific Contiguous	11,973.2	11,957.3	8,978.7	7,214.2	1,284.0	1,284.0	39,935.3	39,986.6	2,049.3	2,074.4	1,869.3	1,953.7	66,089.8	64,470.2	6,391.9	5,015.7	15,370.6	12,229.9	16,654.6	13,513.9
California	5,682.7	5,726.8	8,878.3	7,191.1	1,284.0	1,284.0	10,197.7	10,186.7	1,330.2	1,353.8	1,849.8	1,934.2	29,222.7	27,676.6	6,174.3	4,861.0	15,052.6	12,052.1	16,336.6	13,336.1
Oregon	3,217.4	3,157.4	99.9	22.6	0.0	0.0	8,423.2	8,525.4	308.4	317.6	19.5	19.5	12,068.4	12,042.5	128.7	84.0	228.6	106.6	228.6	106.6
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,314.4	21,274.5	410.7	403.0	0.0	0.0	24,798.7	24,751.1	88.9	70.6	89.4	71.1	89.4	71.1
Pacific Noncontiguous	266.2	266.2	98.3	50.7	0.0	0.0	496.3	466.1	224.3	260.4	43.0	43.0	1,128.1	1,086.4	564.1	428.9	662.4	479.6	662.4	479.6
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.4	441.1	7.0	7.0	0.0	0.0	538.0	508.7	3.6	0.0	3.6	0.0	3.6	0.0
Hawaii	205.6	205.6	98.3	50.7	0.0	0.0	25.9	25.0	217.3	253.4	43.0	43.0	590.1	577.7	560.6	428.9	658.9	479.6	658.9	479.6
U.S. Total	84,095.8	74,748.6	22,313.6	15,077.2	1,757.9	1,757.9	80,016.0	79,940.0	14,267.3	14,114.5	2,456.6	2,541.5	204,907.2	188,179.7	15,385.8	12,063.5	37,699.4	27,140.7	39,457.3	28,898.6

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, August 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	
	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016	August 2017	August 2016
New England	12,065.4	11,893.0	1,099.0	1,115.5	1,051.7	641.5	917.3	1,955.3	0.0	0.0	6,155.2	7,117.2	0.0	0.0	21,288.6	22,722.5
Connecticut	2,581.4	2,547.5	467.3	479.3	424.6	416.6	383.4	383.4	0.0	0.0	2,483.0	2,480.3	0.0	0.0	6,339.7	6,307.1
Maine	1,250.0	1,250.0	297.1	297.1	14.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,442.5	2,442.5
Massachusetts	5,225.8	5,098.6	330.8	335.3	200.0	198.0	0.0	1,038.0	0.0	0.0	2,583.4	3,141.1	0.0	0.0	8,340.0	9,811.0
New Hampshire	1,231.0	1,235.2	3.8	3.8	400.2	0.0	533.9	533.9	0.0	0.0	94.0	498.0	0.0	0.0	2,262.9	2,270.9
Rhode Island	1,777.2	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	16.0	17.2	0.0	0.0	1,805.6	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	99.7	0.0	0.0	97.9	99.7
Middle Atlantic	26,340.5	26,259.7	7,689.3	7,599.7	14,762.8	13,537.8	13,877.2	16,308.0	78.6	78.6	5,359.2	5,383.2	125.2	123.8	68,232.8	69,290.8
New Jersey	8,132.6	8,104.3	2,842.9	2,817.1	493.2	1,113.2	613.0	1,245.0	11.6	11.6	222.2	273.7	23.4	23.4	12,338.9	13,588.3
New York	8,128.7	8,095.4	3,166.9	3,105.2	9,653.5	9,522.0	1,639.9	1,749.6	0.0	0.0	3,526.1	3,484.2	0.0	0.0	26,115.1	25,956.4
Pennsylvania	10,079.2	10,060.0	1,679.5	1,677.4	4,616.1	2,902.6	11,624.3	13,313.4	67.0	67.0	1,610.9	1,625.3	101.8	100.4	29,778.8	29,746.1
East North Central	18,058.2	17,036.6	26,447.0	26,005.2	3,953.9	3,904.6	61,501.4	62,768.3	247.6	317.6	2,665.6	2,729.8	1,165.9	1,139.9	114,039.6	113,902.0
Illinois	3,566.3	3,543.0	10,302.2	10,169.1	290.9	281.4	14,015.1	14,644.6	0.0	0.0	685.0	685.7	114.5	114.5	28,974.0	29,438.3
Indiana	2,406.0	2,480.2	3,363.2	3,127.6	725.9	706.1	15,773.8	16,111.4	0.0	70.0	237.8	270.3	614.3	588.3	23,121.0	23,353.9
Michigan	4,421.6	4,296.5	3,969.0	3,918.7	2,184.8	2,465.8	9,414.2	9,451.0	47.2	47.2	498.4	530.5	250.0	250.0	20,785.2	20,959.7
Ohio	4,922.4	4,076.0	5,431.7	5,427.7	154.8	131.4	15,181.6	15,189.9	142.0	142.0	640.0	645.9	187.1	187.1	26,659.6	25,800.0
Wisconsin	2,741.9	2,640.9	3,380.9	3,362.1	597.5	319.9	7,116.7	7,371.4	58.4	58.4	604.4	597.4	0.0	0.0	14,499.8	14,350.1
West North Central	6,641.9	6,034.9	11,537.0	11,380.8	4,200.2	3,898.0	34,593.2	35,132.4	32.0	32.0	3,907.9	4,096.1	8.4	8.4	60,920.6	60,582.6
Iowa	1,774.7	1,125.8	1,256.2	1,105.6	498.1	572.8	5,548.8	5,681.7	32.0	32.0	846.5	1,014.3	0.0	0.0	9,956.3	9,532.2
Kansas	266.0	266.0	2,169.0	2,171.8	2,113.6	2,054.5	4,683.2	4,687.2	0.0	0.0	539.3	537.3	0.0	0.0	9,771.1	9,716.8
Minnesota	2,172.0	2,173.2	2,437.9	2,534.1	375.1	325.8	4,308.5	4,300.1	0.0	0.0	794.1	799.4	0.0	0.0	10,087.6	10,132.6
Missouri	1,796.6	1,837.3	3,420.5	3,395.2	501.0	349.9	11,726.1	11,932.0	0.0	0.0	1,134.2	1,144.7	0.0	0.0	18,578.4	18,659.1
Nebraska	342.6	342.6	1,150.8	1,151.5	592.1	586.3	3,817.3	3,842.0	0.0	0.0	312.7	313.7	0.0	0.0	6,215.5	6,236.1
North Dakota	0.0	0.0	408.0	328.0	111.6	0.0	4,035.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,624.6	4,615.5
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	475.0	0.0	0.0	219.8	222.0	0.0	0.0	1,687.1	1,690.3
South Atlantic	52,658.3	51,253.3	32,462.9	31,111.9	6,995.3	7,071.6	57,308.7	58,072.6	83.8	83.8	10,414.0	11,782.4	135.0	135.0	160,058.0	159,510.6
Delaware	1,512.0	1,512.0	315.2	311.0	843.2	877.4	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,329.5	3,359.5
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,444.7	27,505.6	8,521.5	7,500.2	2,476.7	3,027.7	9,984.0	9,984.0	0.0	0.0	4,974.0	5,844.9	0.0	0.0	53,400.9	53,862.4
Georgia	7,957.7	7,953.2	7,823.8	7,840.0	796.4	789.4	9,360.5	9,353.5	83.8	83.8	946.6	937.0	0.0	0.0	26,968.8	26,956.9
Maryland	976.0	250.0	1,966.2	1,581.0	1,414.2	1,415.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,287.3	9,556.7
North Carolina	4,724.8	4,766.0	6,047.7	6,049.7	0.0	0.0	10,536.8	10,802.8	0.0	0.0	337.6	402.8	0.0	0.0	21,646.9	22,021.3
South Carolina	2,409.0	2,409.0	2,813.9	2,855.6	296.0	296.0	5,547.0	5,547.0	0.0	0.0	463.4	525.4	0.0	0.0	11,529.3	11,633.0
Virginia	7,634.1	6,857.5	3,894.3	3,894.1	1,045.8	583.3	3,800.4	4,264.3	0.0	0.0	2,348.4	2,349.3	0.0	0.0	18,723.0	17,948.5
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	82.0	12,958.0	12,999.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	20,197.9	19,040.8	13,008.2	13,003.3	5,362.8	4,055.0	26,980.5	29,432.4	0.0	0.0	142.0	217.0	19.8	99.8	65,711.2	65,848.3
Alabama	9,441.4	9,397.8	2,532.2	2,530.6	1,908.3	636.3	6,283.4	7,507.4	0.0	0.0	42.6	42.6	19.8	99.8	20,227.7	20,214.5
Kentucky	1,763.0	663.3	4,976.6	4,976.6	260.0	260.0	11,862.8	13,027.7	0.0	0.0	11.9	76.9	0.0	0.0	18,874.3	19,004.5
Mississippi	7,590.5	7,576.7	1,718.9	1,718.9	3,128.3	3,155.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,302.0	14,315.4
Tennessee	1,403.0	1,403.0	3,780.5	3,777.2	66.2	3.2	7,014.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,307.2	12,313.9
West South Central	60,294.9	59,066.1	13,432.1	13,264.9	31,958.6	34,233.0	36,423.7	36,432.5	955.7	959.3	181.3	181.3	655.3	659.8	143,901.6	144,796.9
Arkansas	4,620.5	4,602.9	702.8	702.8	793.7	816.3	5,116.0	5,122.4	0.0	0.0	12.2	12.2	0.0	0.0	11,245.2	11,256.6
Louisiana	7,552.8	7,616.4	2,372.8	2,358.1	6,822.7	8,332.4	2,852.9	2,855.1	891.9	895.5	45.5	45.5	407.4	407.4	20,946.0	22,510.4
Oklahoma	6,783.7	6,720.2	1,287.9	1,292.2	5,164.9	5,264.9	4,865.8	4,866.5	0.0	0.0	74.4	74.4	0.0	0.0	18,176.7	18,218.2
Texas	41,337.9	40,126.6	9,068.6	8,911.8	19,177.3	19,819.4	23,589.0	23,588.5	63.8	63.8	49.2	49.2	247.9	252.4	93,533.7	92,811.7
Mountain	22,494.2	22,487.3	8,859.0	8,926.6	3,341.9	3,196.9	28,371.4	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,600.9	64,087.8
Arizona	9,891.6	9,866.7	2,367.6	2,367.6	1,303.6	1,147.6	5,754.0	5,910.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,382.4
Colorado	3,240.5	3,240.5	2,572.3	2,535.3	329.0	329.0	5,038.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,349.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	14.0	4.3	8.5	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,148.1	1,157.5
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,415.0	5,418.6	1,385.6	1,385.6	444.6	451.1	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,991.6	8,258.7
New Mexico	1,465.0	1,469.0	976.0	1,080.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,828.3	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	316.2	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,348.2	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,411.6	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,788.0	6,786.5
Pacific Contiguous	25,987.3	25,993.0	11,763.8	11,610.7	8,877.0	11,890.1	1,982.0	2,015.0	17.0	17.0	422.3	422.3	229.3	209.3	49,278.7	52,157.4
California	19,962.8	19,892.9	10,910.6	10,715.5	8,621.0	11,638.1	57.0	90.0	17.0	17.0	407.1	407.1	229.3	209.3	40,204.8	42,969.9
Oregon	3,374.9	3,429.6	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	4,372.8
Washington	2,649.6	2,670.5	719.4	761.4	31.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,755.8	4,814.7
Pacific Noncontiguous	479.2	418.0	626.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,596.0	2,568.7	6.4	9.6	4,216.7	4,159.4
Alaska	479.2	418.0	626.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	725.2	701.1	0.0	0.0	2,159.5	2,102.2
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,867.6	6.4	9.6	2,057.2	2,057.2
U.S. Total	245,217.8	239,482.7	126,924.6	124,672.9	80,679.2	82,603.5	262,289.2	271,392.9	1,466.7	1,540.3	32,214.3	34,868.8	2,456.9	2,497.2	751,248.7	757,058.3

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NOTES:

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

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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	9	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	9	60863	ACE-Stanton A, LLC	IPP	ACE-Stanton A PV	FL	61247	ASA1	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2017	9	60862	ACE-Stanton, LLC	IPP	ACE-Stanton PV	FL	61246	ASLF1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2017	9	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	9	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	9	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	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	9	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	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	9	60865	CD Global Solar Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	19.4
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Boaz Farm Solar	NC	61157	BOAZF	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Haywood Farm Solar, LLC	NC	61255	HAY02	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	9	60865	CD Global Solar Holdings, LLC	IPP	Hood Farm Solar, LLC	NC	61256	HOF05	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60829	Caelum Community Solar	IPP	Caelum Community Solar	MN	61180	PCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60826	Capella Community Solar	IPP	Capella Community Solar	MN	61178	HCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	236.0
2017	9	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	9	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2017	9	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	9	60990	Cline Solar, LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	9	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	9	61032	Constellation Solar Georgia 2, LLC	IPP	Georgia Power at Jakin GA PV	GA	61397	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	9	61060	Cypress Creek Renewables	IPP	Long Henry Solar	NC	61347	GEN1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	61060	Cypress Creek Renewables	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	79.0
2017	9	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	9	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	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	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	9	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	9	60926	Hatfield Renewables, LLC	IPP	Hatfield Renewables	MA	61299	02599	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2017	9	61022	Hecate Energy Cherrydale LLC	Electric Utility	Cherrydale Solar Power Facility	VA	61375	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	9	57389	IKEA Property Inc	IPP	IKEA Grand Prairie Rooftop PV System	TX	61309	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.8
2017	9	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	9	58822	MC Power Companies Inc	IPP	BPU Solar Farm	KS	61313	BPU1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2017	9	56990	NJR Clean Energy Ventures Corporation	IPP	Princeton Solar Project	NJ	61354	STONY	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	9	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	9	61058	One Ten Partner, LLC	IPP	One Ten Partners PV	CA	61419	OTP	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.0
2017	9	60649	Redbrook Solar 1, LLC	IPP	Redbrook Solar 1	MA	61007	REDBR	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2017	9	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	149.3
2017	9	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	9	60163	Soltage LLC	IPP	Mill Pond Solar Farm, LLC	NC	61196	MILLL	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	9	60652	Stafford St Solar 1, LLC	IPP	Stafford St Solar 1	MA	61016	STAF1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60653	Stafford St Solar 2, LLC	IPP	Stafford St Solar 2	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60654	Stafford St Solar 3, LLC	IPP	Stafford St Solar 3	MA	61018	STAF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2017	9	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	9	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.8
2017	9	60924	Upton Solar, LLC	IPP	Upton Solar	MA	61297	02567	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60059	ZGlobal Inc	IPP	Valencia 1 Solar CA	CA	61418	VAL1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2017	10	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	10	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	10	60541	Ameresco Glendale Road Solar PV LLC	IPP	Northampton Landfill Solar PV	MA	60908	62380	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60828	Andromeda Community Solar	IPP	Andromeda Community Solar	MN	61181	OACS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2017	10	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	10	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	10	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	10	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.5
2017	10	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	10	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	10	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	10	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	10	7294	City of Glendale - (CA)	Electric Utility	Glendale Battery Energy Storage System	CA	60974	2BESS	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	10	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	10	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	10	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	61060	Cypress Creek Renewables	IPP	Bear Creek Solar	NC	61351	GEN1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	61060	Cypress Creek Renewables	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	10	61060	Cypress Creek Renewables	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	10	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(OT) Other	0.9
2017	10	6455	Duke Energy Florida, LLC	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2017	10	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	10	60496	Enerparc Inc.	IPP	Black Eagle Solar, LLC	MT	61336	BESMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	10	60496	Enerparc Inc.	IPP	Great Divide Solar, LLC	MT	61335	GDSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	10	60496	Enerparc Inc.	IPP	Magpie Solar, LLC	MT	61337	MSMT	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	10	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	155.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	155.4
2017	10	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	10	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	10	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	10	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	10	60917	Golden Hills Solar, LLC	IPP	Golden Hills Solar	MA	61315	02196	4.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.7
2017	10	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	369.0
2017	10	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	231.3
2017	10	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	10	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	7	1.0	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	1.0
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.1
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	71.0
2017	10	61028	LSE Cassiopeia LLC	IPP	Ashby Duffy Solar Farm	MA	61399	DU183	1.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.8
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	10	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	10	61040	Moorings Farm 2, LLC	IPP	Moorings Farm 2	NC	61405	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	10	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	10	61039	Pikeville Farm, LLC	IPP	Pikeville Farm	NC	61404	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	10	60925	Pleasantdale Road Solar, LLC	IPP	Pleasantdale Road Solar	MA	61298	02112	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	10	15257	Poudre Valley Associated Services, Inc.	Electric Utility	Coyote Ridge Community Solar	CO	61425	COYCS	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	10	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	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60163	Soltage LLC	IPP	Broadridge Solar, LLC	NC	61218	BROAD	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.7
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61016	SunE Koppelman 1, LLC	IPP	Koppelman Sun	MN	61381	KOPP5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG2	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG4	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	61018	SunE Rengstorf 1, LLC	IPP	Rengstorf Solar	MN	61383	RENG5	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	10	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	BA2	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2017	10	60947	Tesla Inc.	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	10	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2017	10	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	10	60947	Tesla Inc.	IPP	Oneida County- DPW	NY	60114	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	10	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	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	11	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	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	11	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9

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	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	11	60730	Bakersfield Industrial PV 1, LLC	IPP	Bakersfield Industrial PV 1	CA	61118	BIND1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	11	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2017	11	61042	Cottonwood Wind Project	IPP	Cottonwood Wind Energy Center	NE	61407	CTNWD	89.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.8
2017	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	293.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	362.0
2017	11	56215	E ON Climate Renewables N America LLC	IPP	Inadale Wind Farm LLC	TX	56984	INABT	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	11	60869	EDF Renewable Energy	IPP	Rock Falls Wind Farm LLC	OK	61261	RF1	154.5	Onshore Wind Turbine	WND	WT	(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	(V) Under construction, more than 50 percent complete	8.5
2017	11	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	130.0
2017	11	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	11	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	121.5
2017	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	11	60811	Golden Hills Interconnection Wind, LLC	IPP	Golden Hills North Wind Energy Center	CA	61222	1	46.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	46.0
2017	11	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	11	60969	Hog Creek Wind Project LLC	IPP	Hog Creek Wind Project	OH	61330	WT1	66.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	66.0
2017	11	58822	MC Power Companies Inc	IPP	Higginsville Solar Farm	MO	61316	HSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2017	11	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	11	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	11	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	11	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	11	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	11	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	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	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	11	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.3
2017	11	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	11	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	11	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	11	60520	SoCore Energy LLC	IPP	Richmond CSG	MN	61427	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	1.3
2017	11	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2017	11	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	11	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	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	60542	Willow Springs Windfarm, LLC	IPP	Willow Springs Wind Farm	TX	60901	WSPWF	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2017	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	79.2
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.4
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.5
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	127.0
2017	12	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	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	143.0
2017	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	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2017	12	60746	Bedford Solar, LLC	IPP	Bedford Solar	VA	61126	12346	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	60772	Big Timber Wind, LLC	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	25.0
2017	12	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60944	Bluff Point Wind, LLC	IPP	Bluff Point Wind Facility	IN	61303	BLUFF	119.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	119.7
2017	12	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	202.0
2017	12	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.8
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	361.3
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.0
2017	12	58519	Clean Energy Collective LLC	Electric Utility	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	60967	Crater Community Solar	IPP	Crater Community Solar	MN	61328	TCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	61060	Cypress Creek Renewables	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Bondi Solar	NC	61352	GEN1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Next Generation Solar Farm	VT	61340	NGSF1	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar	TX	61410	GEN1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	61060	Cypress Creek Renewables	IPP	Whitesboro Solar II	TX	61411	GEN1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0

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	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61014	DodgeSun, LLC	IPP	DodgeSun	MN	61379	DODG5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(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	Southampton Solar, LLC	VA	61422	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	4.0
2017	12	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60904	ETCAP NES CS MN 06 LLC	IPP	Waseca Solar	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.3
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	60901	ETCAP NES CS MN 12 LLC	IPP	Kramer Solar	MN	61058	KRAM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2017	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	12	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(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	(U) Under construction, less than or equal to 50 percent complete	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2017	12	60747	Gamble Solar, LLC	IPP	Gamble Solar	NC	61127	12348	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	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	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	57389	IKEA Property Inc	Commercial	IKEA Joliet Rooftop PV System	IL	61192	PV	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.1
2017	12	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	12	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	12	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	168.0
2017	12	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	12	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Armstrong	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of MN Lake	MN	61140	0000D	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Vetter Farms	MN	61141	0000F	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2017	12	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	58764	Origis Energy USA, Inc	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2017	12	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	12	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	98.0
2017	12	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2017	12	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2017	12	60997	Red Pine Wind Project, LLC	IPP	Red Pine Wind Project	MN	61357	RP1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	12	60978	SP Solar 5, LLC	IPP	Mill Creek Solar (OR)	OR	61338	PGRC1	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2017	12	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.2
2017	12	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2017	12	60520	SoCore Energy LLC	IPP	Taylor Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60163	Soltage LLC	IPP	Barker Solar, LLC	NC	61194	BARK	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	12	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(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	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	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
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.5

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	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	0.9
2017	12	60947	Tesla Inc.	IPP	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	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	(U) Under construction, less than or equal to 50 percent complete	3.5
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	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2017	12	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	297.8
2017	12	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.6
2017	12	60749	Wadesboro Solar, LLC	IPP	Wadesboro Solar	NC	61129	12347	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	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	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSLFG	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2017	12	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2017	12	60059	ZGlobal Inc	IPP	Madera 1 PV	CA	61421	MDRA1	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2017	12	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(T) Regulatory approvals received. Not under construction	0.4
2018	1	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	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT	(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	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	66.0
2018	1	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
2018	1	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
2018	1	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
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	244.8
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	460.0
2018	1	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	1	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	1	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	2	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2018	2	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	2	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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	2	60953	Farmingdale Fuel Cell, LLC	Electric CHP	Farmingdale Fuel Cell	NY	61317	MB-21	1.4	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2018	2	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	(L) Regulatory approvals pending. Not under construction	97.0
2018	2	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	2	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
2018	3	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	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	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	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	3	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2018	3	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5

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	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6	360.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	238.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.0
2018	3	60947	Tesla Inc.	IPP	Hamilton College	NY	61103	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	60947	Tesla Inc.	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	4	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	4	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	4	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
2018	4	49893	Invenergy Services LLC	IPP	Santa Rita Wind Energy	TX	60987	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	4	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	4	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2018	4	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	4	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	4	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	4	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	5	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	280.5
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	280.5
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	5	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	5	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	5	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	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	205.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	6	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	6	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2018	6	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	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 Lewes	DE	60216	ESSLS	8.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	8.0
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	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	6	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	6	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	6	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

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	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	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	55.0
2018	6	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	207.0
2018	6	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	230.0
2018	6	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	6	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	287.0
2018	6	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
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	476.9
2018	6	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	6	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2018	6	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	6	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	6	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	7	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	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	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	7	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2018	7	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.2
2018	7	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	233.7
2018	7	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2018	7	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	7	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	7	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	53.0
2018	7	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2018	7	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	7	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0			WT	(T) Regulatory approvals received. Not under construction	80.0
2018	7	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	7	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
2018	8	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	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	8	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	8	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	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	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	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2018	9	61060	Cypress Creek Renewables	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	9	61060	Cypress Creek Renewables	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	10	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	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	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	600.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV3	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV4	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV5	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	10	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	2.7
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	10	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	10	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	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2018	11	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	11	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.2
2018	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	60526	Alternative Power Development Northwest, LLC	IPP	Carter Solar One, LLC	ID	60896	CRTON	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar East, LLC	ID	60899	JPTEA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar North, LLC	ID	60897	JPTNO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar South, LLC	ID	60898	JPTSO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar West, LLC	ID	60900	JPTWE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2018	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2018	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2018	12	15399	Avangrid Renewables LLC	IPP	Gala Solar	OR	61048	PV1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2018	12	15399	Avangrid Renewables LLC	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2018	12	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2018	12	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	90.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	58695	Coronal Development Services	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2018	12	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	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	161.3
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	201.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	12	60072	Willard Solar, LLC	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	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
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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT3	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	13478	Entergy New Orleans Inc	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2020	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2020	1	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.1
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2020	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	2	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	5	60385	Energy Nuevo Storage Farm	Industrial	Energy Nuevo Storage Farm	CA	60646	NUEVO	20.0	Flywheels	MWH	FW	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	5	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	6	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	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2020	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2020	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2020	8	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	BA1	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2020	11	49880	EDP Renewables North America LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	12	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

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	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
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	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	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	11	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	11	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	11	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2017	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2017	12	2053	Bowater Newport Coosa Pines Op	Industrial	U S Alliance Coosa Pines	AL	54216	AOW6	12.5	Natural Gas Steam Turbine	NG	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	1	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	2	21.0	Conventional Steam Coal	SUB	ST
2017	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	3	41.0	Conventional Steam Coal	SUB	ST
2017	12	9205	Illinois Electricial Gen Partn	IPP	Streator Energy Partners LLC	IL	55760	ST1	0.9	Landfill Gas	LFG	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	HP	0.0	Natural Gas Steam Turbine	NG	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	LP	0.0	Natural Gas Steam Turbine	NG	ST
2018	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	0.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2018	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2018	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2018	5	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

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	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	6	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2018	6	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	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	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	10	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2018	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	42.2	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2019	3	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	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	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	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
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

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	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	107.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	50.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	51.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	33.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT1	18.0	Petroleum Liquids	DFO	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT2	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	GT3	147.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	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
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

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	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	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV

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

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

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	52.7%	56.0%	8.3%	12.2%	NA	10.8%	1.3%	NA
Year 2015								
January	61.3%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	64.9%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.8%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	43.9%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
Year 2016								
January	55.6%	56.8%	4.5%	6.3%	NA	9.4%	0.5%	NA
February	48.4%	54.1%	4.5%	6.4%	NA	9.9%	0.5%	NA
March	35.6%	50.8%	7.2%	9.9%	NA	8.3%	1.3%	NA
April	37.3%	48.1%	8.6%	12.1%	NA	9.1%	1.0%	NA
May	41.1%	53.2%	7.6%	12.5%	NA	10.6%	1.3%	NA
June	60.8%	64.7%	10.0%	17.5%	NA	12.5%	1.5%	NA
July	69.1%	68.8%	14.3%	22.9%	NA	16.1%	2.5%	NA
August	68.6%	71.3%	14.3%	21.2%	NA	14.3%	3.1%	NA
Sept	59.7%	61.4%	9.4%	14.5%	NA	12.2%	1.4%	NA
October	50.2%	48.1%	7.6%	11.4%	NA	8.2%	1.1%	NA
November	45.5%	47.0%	6.6%	6.0%	NA	9.3%	0.7%	NA
December	60.2%	47.8%	4.7%	5.4%	NA	9.4%	0.6%	NA
Year 2017								
January	58.6%	50.6%	5.8%	4.1%	NA	10.0%	1.4%	NA
February	48.7%	48.6%	6.1%	3.6%	NA	8.9%	1.8%	NA
March	45.4%	48.1%	8.5%	8.2%	NA	12.1%	2.1%	NA
April	43.4%	45.7%	7.2%	8.9%	NA	9.0%	1.3%	NA
May	48.3%	49.5%	8.6%	9.7%	NA	15.0%	2.6%	NA
June	58.5%	60.2%	9.7%	16.1%	NA	15.3%	1.8%	NA
July	67.1%	70.1%	12.5%	22.3%	NA	18.1%	2.0%	NA
August	62.9%	69.2%	11.0%	19.5%	NA	14.3%	2.2%	NA

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

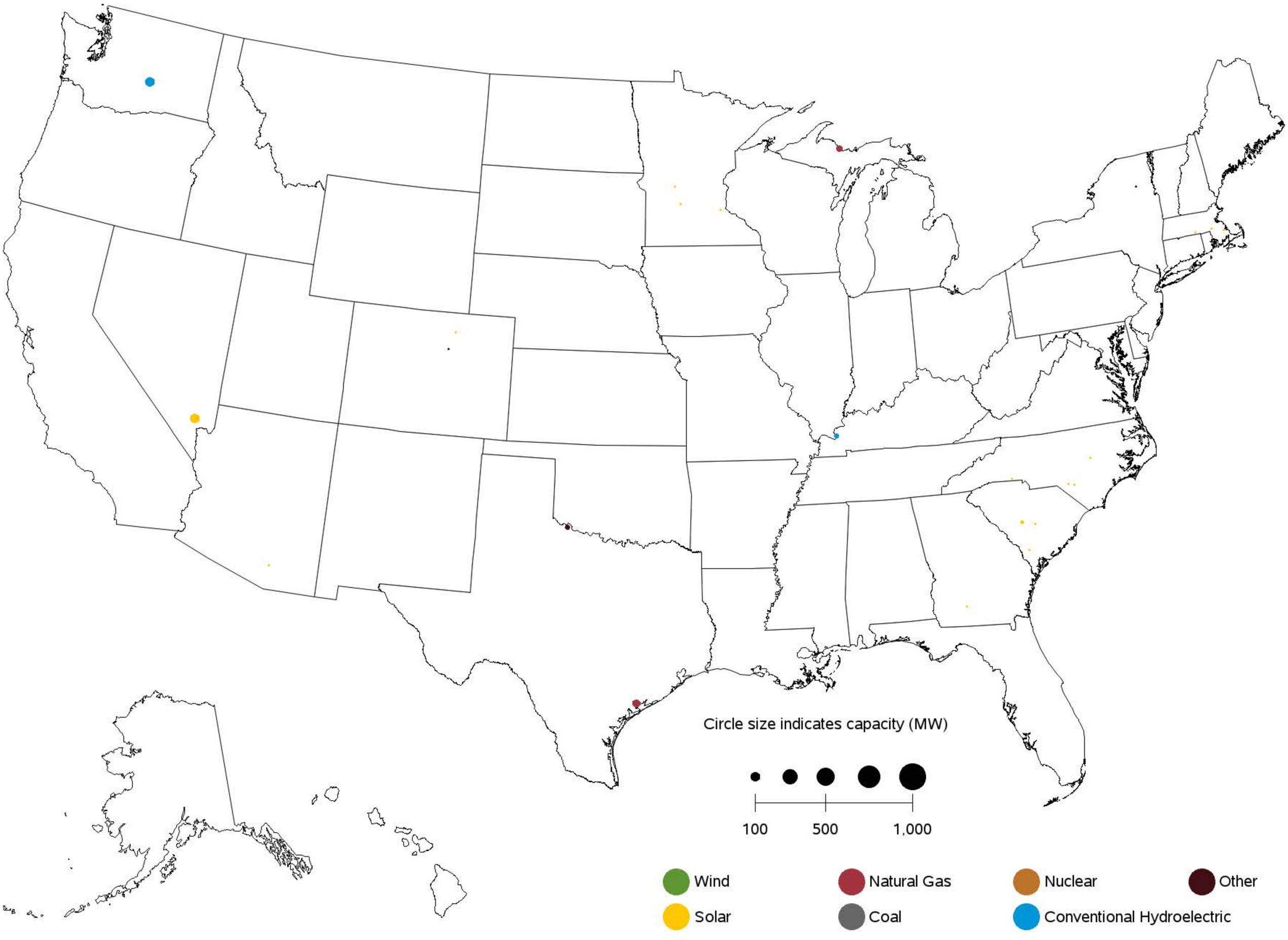
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.5%	38.0%	34.7%	27.2%	22.2%	70.7%	46.7%	74.2%
Year 2015								
January	101.3%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
Year 2016								
January	98.8%	42.6%	34.2%	17.9%	6.8%	70.3%	51.2%	73.6%
February	95.6%	43.2%	39.9%	26.7%	19.5%	66.0%	54.0%	73.5%
March	90.1%	45.2%	40.4%	28.0%	19.6%	63.5%	47.8%	72.8%
April	87.8%	44.2%	39.4%	30.8%	20.9%	68.5%	36.4%	68.9%
May	90.7%	42.6%	34.3%	35.0%	28.9%	75.2%	39.0%	74.1%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.8%	47.2%	71.6%
July	94.8%	35.9%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%
Sept	91.1%	28.4%	30.6%	30.1%	30.2%	70.7%	47.4%	76.1%
October	81.9%	29.2%	36.7%	25.3%	19.1%	66.4%	38.0%	75.1%
November	91.1%	33.3%	35.4%	21.3%	14.4%	71.5%	41.6%	78.2%
December	97.0%	38.2%	38.8%	15.5%	7.0%	76.3%	50.2%	80.7%
Year 2017								
January	99.0%	48.4%	36.6%	16.9%	7.3%	74.2%	42.4%	79.8%
February	96.0%	47.7%	42.5%	20.0%	11.7%	70.6%	51.3%	78.1%
March	88.1%	54.1%	44.7%	27.9%	22.9%	67.9%	47.8%	75.0%
April	79.2%	53.5%	44.8%	31.0%	24.9%	68.0%	48.1%	78.6%
May	82.9%	56.6%	38.8%	34.1%	31.0%	70.6%	43.4%	74.0%
June	93.7%	56.9%	34.5%	35.7%	37.9%	72.6%	45.4%	75.2%
July	96.3%	45.9%	27.6%	33.7%	25.4%	71.3%	47.4%	78.0%
August	97.7%	37.9%	22.5%	31.2%	27.6%	72.7%	46.5%	77.4%

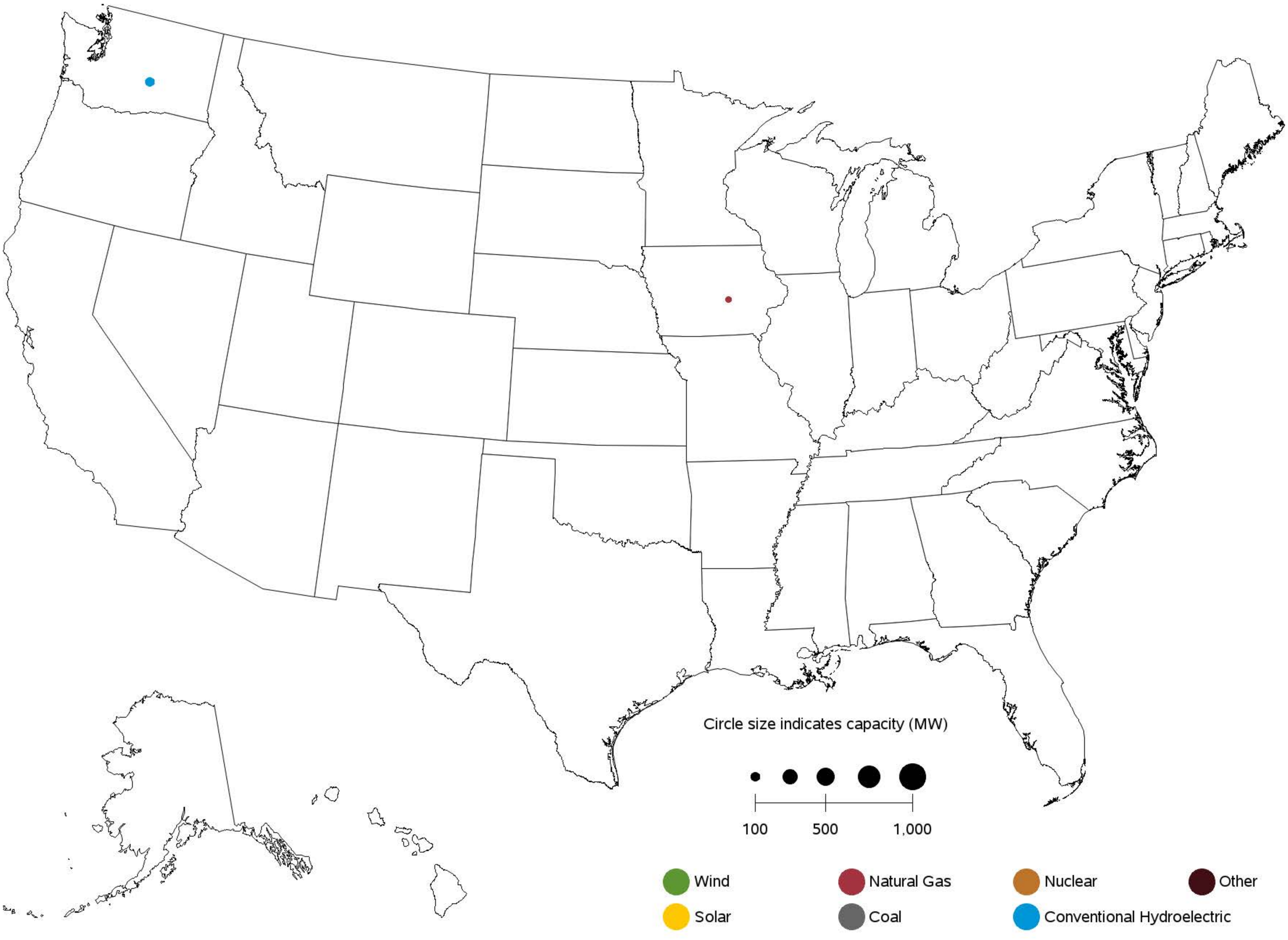
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



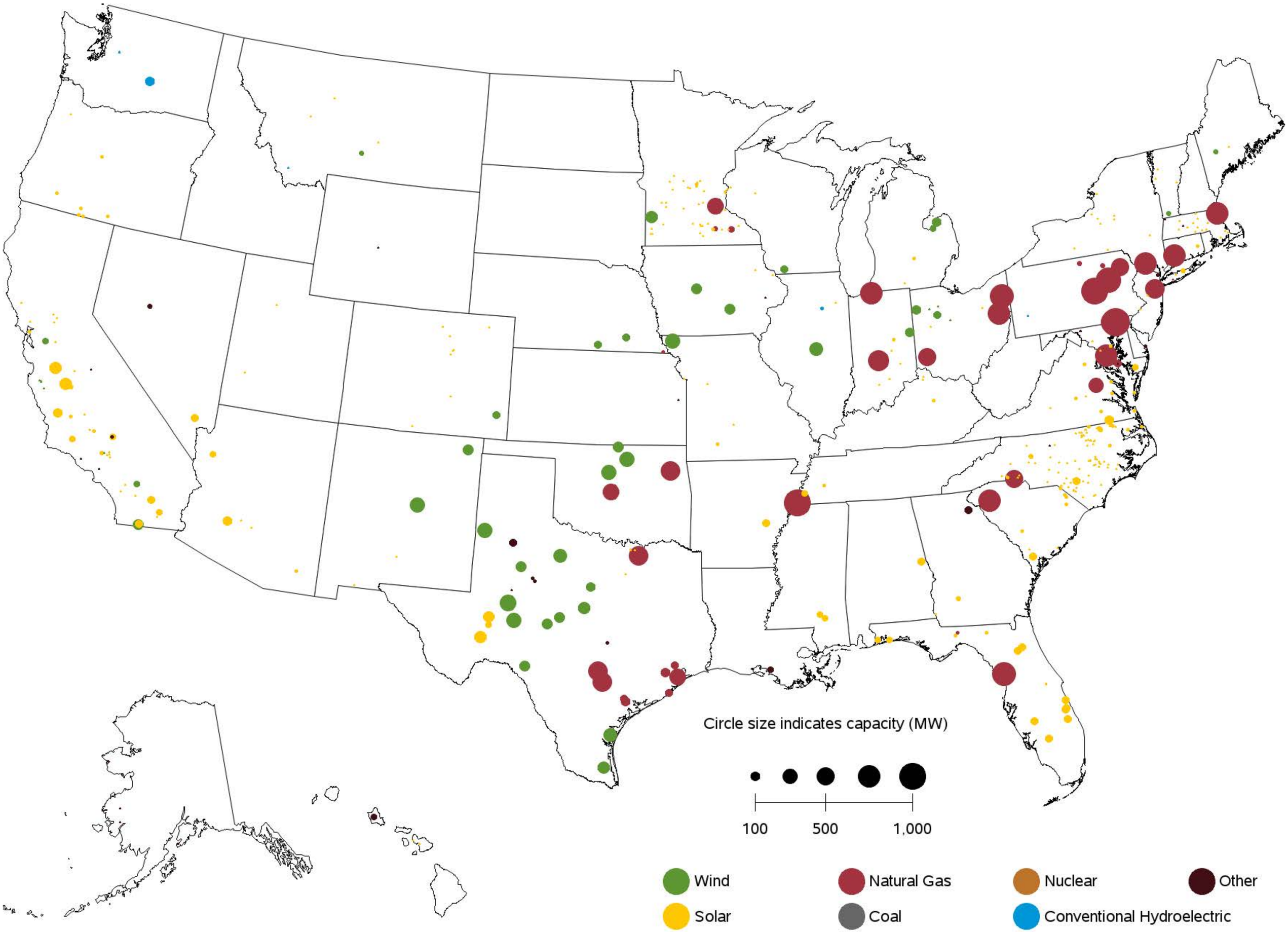
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



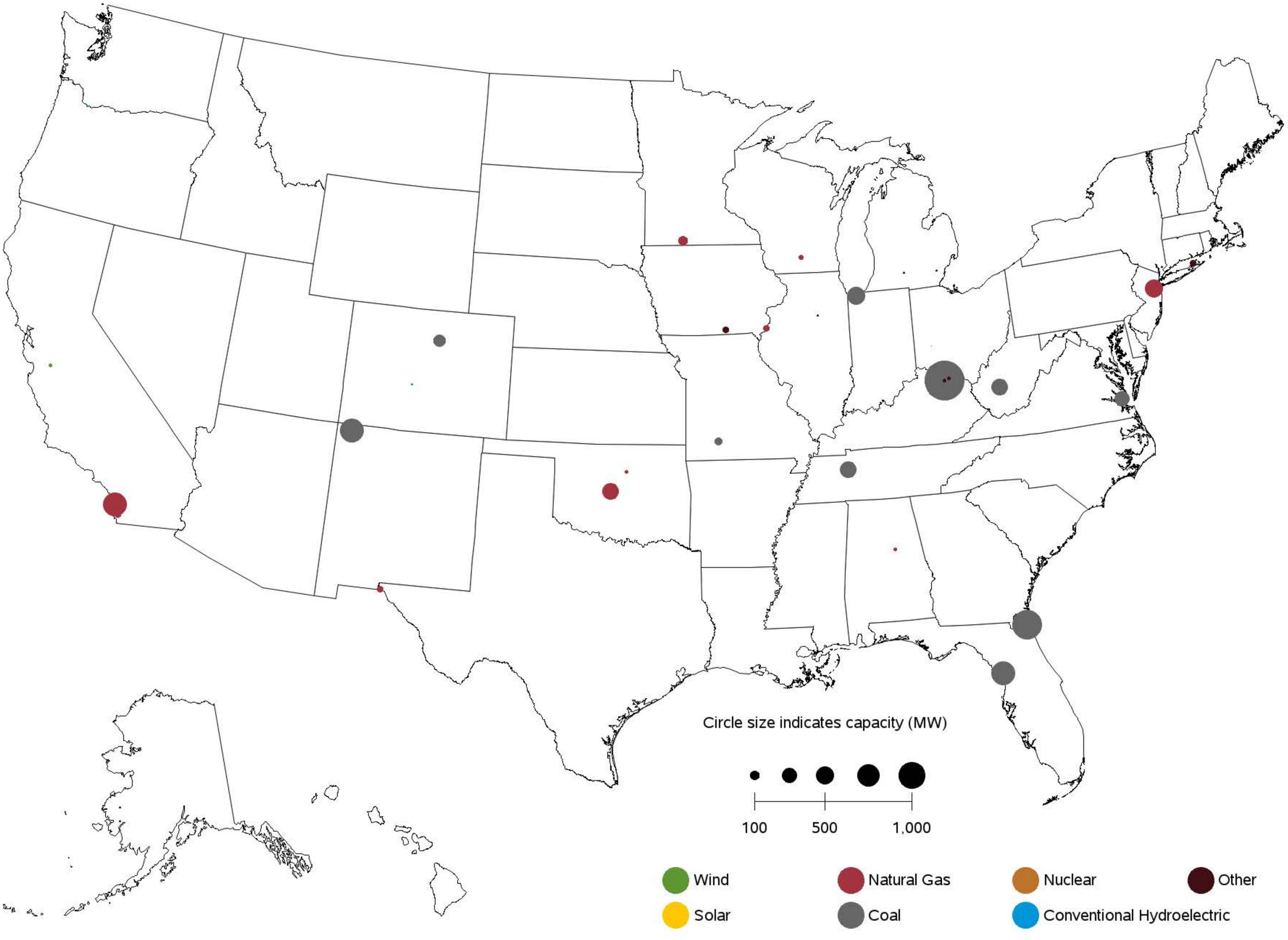
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**39**	**14**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	50	0	3	0	0	25
Maine	41	40	0	39	0	0	8
Massachusetts	0	9	0	5	0	0	17
New Hampshire	0	11	0	0	0	0	13
Rhode Island	0	161	0	20	0	0	0
Vermont	0	33	0	0	0	0	14
Middle Atlantic	**3**	**9**	**54**	**2**	**25**	**0**	**2**
New Jersey	0	43	0	7	0	0	315
New York	0	14	0	3	0	0	1
Pennsylvania	3	11	83	2	34	0	9
East North Central	**1**	**4**	**13**	**3**	**9**	**0**	**16**
Illinois	0	6	0	11	0	0	53
Indiana	1	4	0	5	13	0	22
Michigan	5	7	0	4	0	0	34
Ohio	1	3	36	3	22	0	20
Wisconsin	0	39	0	7	0	0	26
West North Central	**2**	**16**	**0**	**10**	**0**	**0**	**12**
Iowa	1	27	0	13	0	0	41
Kansas	4	17	0	20	0	0	0
Minnesota	6	47	0	14	0	0	41
Missouri	4	6	0	33	0	0	11
Nebraska	5	207	0	39	0	0	32
North Dakota	0	7	0	37	0	0	29
South Dakota	0	125	0	35	0	0	20
South Atlantic	**0**	**7**	**11**	**1**	**37**	**0**	**5**
Delaware	0	93	0	9	42	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	28
Georgia	1	50	89	3	0	0	8
Maryland	0	6	0	9	0	0	1
North Carolina	0	28	0	2	0	0	7
South Carolina	0	37	0	5	0	0	13
Virginia	4	11	0	2	0	0	15
West Virginia	1	0	0	14	0	0	17
East South Central	**1**	**9**	**0**	**2**	**24**	**0**	**4**
Alabama	0	59	0	2	42	0	4
Kentucky	2	8	0	3	0	0	10
Mississippi	0	29	0	3	0	0	0
Tennessee	0	0	0	4	0	0	5
West South Central	**0**	**17**	**1**	**1**	**5**	**0**	**5**
Arkansas	0	53	0	7	0	0	8
Louisiana	0	100	0	2	6	0	14
Oklahoma	0	74	0	3	0	0	9
Texas	0	11	42	1	6	0	16
Mountain	**1**	**7**	**0**	**1**	**2**	**0**	**7**
Arizona	0	10	0	1	0	0	5
Colorado	0	50	0	2	0	0	34
Idaho	65	0	0	17	0	0	15
Montana	6	53	0	24	0	0	14
Nevada	0	0	0	0	0	0	1
New Mexico	0	23	0	3	0	0	147
Utah	0	2	0	2	0	0	49
Wyoming	4	2	0	19	3	0	45
Pacific Contiguous	**0**	**25**	**0**	**1**	**2**	**0**	**2**
California	0	22	0	1	2	0	5
Oregon	0	17	0	5	0	0	7
Washington	0	82	0	7	0	0	2
Pacific Noncontiguous	**23**	**1**	**0**	**23**	**0**	**0**	**33**
Alaska	85	4	0	23	0	0	34
Hawaii	0	1	0	0	0	0	91
U.S. Total	**0**	**1**	**5**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, August 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**	**6**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	27	11	0	0	1
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	7	5	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	40	8	0	0	19
Vermont	0	0	0	19	15	0	0	10
Middle Atlantic	**0**	**0**	**0**	**5**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	3
New York	0	0	0	13	6	0	2	1
Pennsylvania	0	0	0	17	7	0	0	1
East North Central	**0**	**0**	**0**	**7**	**5**	**0**	**3**	**1**
Illinois	0	0	0	11	7	0	0	1
Indiana	0	0	0	11	9	0	0	1
Michigan	0	0	0	17	8	0	9	2
Ohio	0	0	0	18	7	0	0	1
Wisconsin	0	0	0	43	10	0	33	2
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**4**	**2**
Iowa	0	0	0	104	7	0	0	2
Kansas	0	0	0	83	6	0	0	3
Minnesota	0	0	0	7	7	0	3	4
Missouri	0	0	0	26	14	0	0	3
Nebraska	0	0	0	44	11	0	0	4
North Dakota	0	0	0	0	7	0	42	2
South Dakota	0	0	0	168	19	0	0	11
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	21	25	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	4	3	0	1	1
Georgia	0	0	0	5	3	0	17	1
Maryland	0	0	0	12	10	0	0	2
North Carolina	0	0	0	3	2	0	0	1
South Carolina	0	0	0	21	5	0	0	1
Virginia	0	0	0	14	7	0	0	1
West Virginia	0	0	0	0	19	0	0	1
East South Central	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**1**
Alabama	0	0	0	17	4	0	0	1
Kentucky	0	0	0	0	14	0	0	2
Mississippi	0	0	0	9	4	0	0	2
Tennessee	0	0	0	17	6	0	0	1
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	16	5	0	0	2
Louisiana	0	0	0	0	4	0	3	1
Oklahoma	0	0	0	0	6	0	0	2
Texas	0	0	0	3	3	0	3	1
Mountain	**0**	**7**	**0**	**2**	**3**	**0**	**0**	**1**
Arizona	0	0	0	2	4	0	0	0
Colorado	0	0	0	7	5	0	0	1
Idaho	0	29	0	9	10	0	0	9
Montana	0	0	0	59	19	0	0	6
Nevada	0	7	0	2	4	0	0	1
New Mexico	0	0	0	6	7	0	0	1
Utah	0	13	0	6	6	0	0	1
Wyoming	0	0	0	0	14	0	0	4
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	3	0	1	3	0	2	1
Oregon	0	19	0	16	7	0	0	3
Washington	0	0	0	0	7	0	0	2
Pacific Noncontiguous	**0**	**18**	**0**	**11**	**14**	**0**	**0**	**6**
Alaska	0	0	0	0	42	0	0	17
Hawaii	0	18	0	11	15	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**39**	**14**	**0**	**4**	**0**	**0**	**6**
Connecticut	0	50	0	3	0	0	25
Maine	41	40	0	39	0	0	8
Massachusetts	0	9	0	5	0	0	17
New Hampshire	0	11	0	0	0	0	13
Rhode Island	0	161	0	20	0	0	0
Vermont	0	33	0	0	0	0	14
Middle Atlantic	**3**	**9**	**54**	**2**	**25**	**0**	**2**
New Jersey	0	43	0	7	0	0	315
New York	0	14	0	3	0	0	1
Pennsylvania	3	11	83	2	34	0	9
East North Central	**1**	**4**	**13**	**3**	**9**	**0**	**16**
Illinois	0	6	0	11	0	0	53
Indiana	1	4	0	5	13	0	22
Michigan	5	7	0	4	0	0	34
Ohio	1	3	36	3	22	0	20
Wisconsin	0	39	0	7	0	0	26
West North Central	**2**	**16**	**0**	**10**	**0**	**0**	**12**
Iowa	1	27	0	13	0	0	41
Kansas	4	17	0	20	0	0	0
Minnesota	6	47	0	14	0	0	41
Missouri	4	6	0	33	0	0	11
Nebraska	5	207	0	39	0	0	32
North Dakota	0	7	0	37	0	0	29
South Dakota	0	125	0	35	0	0	20
South Atlantic	**0**	**7**	**11**	**1**	**37**	**0**	**5**
Delaware	0	93	0	9	42	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	4	0	1	0	0	28
Georgia	1	50	89	3	0	0	8
Maryland	0	6	0	9	0	0	1
North Carolina	0	28	0	2	0	0	7
South Carolina	0	37	0	5	0	0	13
Virginia	4	11	0	2	0	0	15
West Virginia	1	0	0	14	0	0	17
East South Central	**1**	**9**	**0**	**2**	**24**	**0**	**4**
Alabama	0	59	0	2	42	0	4
Kentucky	2	8	0	3	0	0	10
Mississippi	0	29	0	3	0	0	0
Tennessee	0	0	0	4	0	0	5
West South Central	**0**	**17**	**1**	**1**	**5**	**0**	**5**
Arkansas	0	53	0	7	0	0	8
Louisiana	0	100	0	2	6	0	14
Oklahoma	0	74	0	3	0	0	9
Texas	0	11	42	1	6	0	16
Mountain	**1**	**7**	**0**	**1**	**2**	**0**	**7**
Arizona	0	10	0	1	0	0	5
Colorado	0	50	0	2	0	0	34
Idaho	65	0	0	17	0	0	15
Montana	6	53	0	24	0	0	14
Nevada	0	0	0	0	0	0	1
New Mexico	0	23	0	3	0	0	147
Utah	0	2	0	2	0	0	49
Wyoming	4	2	0	19	3	0	45
Pacific Contiguous	**0**	**25**	**0**	**1**	**2**	**0**	**2**
California	0	22	0	1	2	0	5
Oregon	0	17	0	5	0	0	7
Washington	0	82	0	7	0	0	2
Pacific Noncontiguous	**23**	**1**	**0**	**23**	**0**	**0**	**33**
Alaska	85	4	0	23	0	0	34
Hawaii	0	1	0	0	0	0	91
U.S. Total	**0**	**1**	**5**	**1**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through August 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**	**6**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	27	11	0	0	1
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	7	5	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	40	8	0	0	19
Vermont	0	0	0	19	15	0	0	10
Middle Atlantic	**0**	**0**	**0**	**5**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	6	4	0	0	3
New York	0	0	0	13	6	0	2	1
Pennsylvania	0	0	0	17	7	0	0	1
East North Central	**0**	**0**	**0**	**7**	**5**	**0**	**3**	**1**
Illinois	0	0	0	11	7	0	0	1
Indiana	0	0	0	11	9	0	0	1
Michigan	0	0	0	17	8	0	9	2
Ohio	0	0	0	18	7	0	0	1
Wisconsin	0	0	0	43	10	0	33	2
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**4**	**2**
Iowa	0	0	0	104	7	0	0	2
Kansas	0	0	0	83	6	0	0	3
Minnesota	0	0	0	7	7	0	3	4
Missouri	0	0	0	26	14	0	0	3
Nebraska	0	0	0	44	11	0	0	4
North Dakota	0	0	0	0	7	0	42	2
South Dakota	0	0	0	168	19	0	0	11
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**1**	**0**
Delaware	0	0	0	21	25	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	4	3	0	1	1
Georgia	0	0	0	5	3	0	17	1
Maryland	0	0	0	12	10	0	0	2
North Carolina	0	0	0	3	2	0	0	1
South Carolina	0	0	0	21	5	0	0	1
Virginia	0	0	0	14	7	0	0	1
West Virginia	0	0	0	0	19	0	0	1
East South Central	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**1**
Alabama	0	0	0	17	4	0	0	1
Kentucky	0	0	0	0	14	0	0	2
Mississippi	0	0	0	9	4	0	0	2
Tennessee	0	0	0	17	6	0	0	1
West South Central	**0**	**0**	**0**	**3**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	16	5	0	0	2
Louisiana	0	0	0	0	4	0	3	1
Oklahoma	0	0	0	0	6	0	0	2
Texas	0	0	0	3	3	0	3	1
Mountain	**0**	**7**	**0**	**2**	**3**	**0**	**0**	**1**
Arizona	0	0	0	2	4	0	0	0
Colorado	0	0	0	7	5	0	0	1
Idaho	0	29	0	9	10	0	0	9
Montana	0	0	0	59	19	0	0	6
Nevada	0	7	0	2	4	0	0	1
New Mexico	0	0	0	6	7	0	0	1
Utah	0	13	0	6	6	0	0	1
Wyoming	0	0	0	0	14	0	0	4
Pacific Contiguous	**0**	**3**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	3	0	1	3	0	2	1
Oregon	0	19	0	16	7	0	0	3
Washington	0	0	0	0	7	0	0	2
Pacific Noncontiguous	**0**	**18**	**0**	**11**	**14**	**0**	**0**	**6**
Alaska	0	0	0	0	42	0	0	17
Hawaii	0	18	0	11	15	0	0	2
U.S. Total	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**61**	**0**	**0**	**15**
Connecticut	0	30	0	0	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	37	0	76	0	0	37
New Hampshire	0	3	0	0	0	0	25
Rhode Island	0	0	0	0	0	0	0
Vermont	0	33	0	0	0	0	21
Middle Atlantic	**0**	**42**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	32	0	0	0	0	0
New York	0	42	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**5**	**86**	**0**	**18**
Illinois	0	32	0	93	0	0	110
Indiana	1	4	0	6	143	0	22
Michigan	5	7	0	11	0	0	36
Ohio	5	4	0	7	0	0	28
Wisconsin	0	40	0	8	0	0	29
West North Central	**2**	**16**	**0**	**11**	**0**	**0**	**12**
Iowa	2	27	0	15	0	0	41
Kansas	4	17	0	20	0	0	0
Minnesota	6	54	0	15	0	0	56
Missouri	4	6	0	45	0	0	11
Nebraska	5	207	0	39	0	0	32
North Dakota	0	7	0	37	0	0	29
South Dakota	0	125	0	35	0	0	20
South Atlantic	**0**	**7**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	28
Georgia	1	35	0	3	0	0	8
Maryland	0	133	0	0	0	0	0
North Carolina	0	32	0	2	0	0	7
South Carolina	0	41	0	5	0	0	12
Virginia	4	15	0	3	0	0	15
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**3**	**0**	**2**	**0**	**0**	**4**
Alabama	0	6	0	5	0	0	4
Kentucky	2	8	0	4	0	0	10
Mississippi	0	36	0	3	0	0	0
Tennessee	0	0	0	4	0	0	5
West South Central	**0**	**27**	**0**	**3**	**0**	**0**	**6**
Arkansas	0	186	0	21	0	0	8
Louisiana	0	100	0	4	0	0	0
Oklahoma	0	97	0	5	0	0	9
Texas	0	17	0	5	0	0	16
Mountain	**1**	**8**	**0**	**1**	**0**	**0**	**7**
Arizona	0	10	0	1	0	0	5
Colorado	0	50	0	2	0	0	39
Idaho	0	0	0	23	0	0	15
Montana	0	1,131	0	34	0	0	14
Nevada	0	0	0	1	0	0	0
New Mexico	0	23	0	4	0	0	147
Utah	0	3	0	2	0	0	49
Wyoming	4	2	0	41	0	0	46
Pacific Contiguous	**0**	**21**	**0**	**2**	**0**	**0**	**2**
California	0	24	0	1	0	0	5
Oregon	0	17	0	10	0	0	6
Washington	0	880	0	7	0	0	1
Pacific Noncontiguous	**157**	**1**	**0**	**24**	**0**	**0**	**34**
Alaska	157	4	0	24	0	0	34
Hawaii	0	1	0	0	0	0	0
U.S. Total	**1**	**2**	**0**	**1**	**86**	**0**	**2**

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

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

Electric Utilities by Census Division and State, August 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**	**25**	**8**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	3
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	34	65	0	0	49
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	34	13	0	0	12
Middle Atlantic	**0**	**0**	**0**	**21**	**21**	**0**	**0**	**2**
New Jersey	0	0	0	21	21	0	0	3
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**13**	**12**	**0**	**3**	**1**
Illinois	0	0	0	0	45	0	0	12
Indiana	0	0	0	21	16	0	0	1
Michigan	0	0	0	17	18	0	0	3
Ohio	0	0	0	43	81	0	0	4
Wisconsin	0	0	0	0	20	0	27	3
West North Central	**0**	**0**	**0**	**53**	**6**	**0**	**7**	**2**
Iowa	0	0	0	104	7	0	0	2
Kansas	0	0	0	0	16	0	0	3
Minnesota	0	0	0	111	13	0	0	4
Missouri	0	0	0	0	51	0	0	3
Nebraska	0	0	0	0	36	0	0	4
North Dakota	0	0	0	0	12	0	42	2
South Dakota	0	0	0	0	32	0	0	12
South Atlantic	**0**	**0**	**0**	**5**	**7**	**0**	**0**	**0**
Delaware	0	0	0	53	53	0	0	12
Florida	0	0	0	4	4	0	0	1
Georgia	0	0	0	12	12	0	0	1
Maryland	0	0	0	46	46	0	0	45
North Carolina	0	0	0	10	10	0	0	1
South Carolina	0	0	0	0	10	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**	**29**	**26**	**0**	**0**	**1**
Alabama	0	0	0	40	40	0	0	1
Kentucky	0	0	0	0	33	0	0	2
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**55**	**21**	**0**	**0**	**1**
Arkansas	0	0	0	168	168	0	0	2
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	21	0	0	2
Texas	0	0	0	97	62	0	0	2
Mountain	**0**	**17**	**0**	**5**	**9**	**0**	**0**	**1**
Arizona	0	0	0	6	6	0	0	0
Colorado	0	0	0	147	56	0	0	1
Idaho	0	0	0	0	105	0	0	13
Montana	0	0	0	0	59	0	0	12
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	13	13	0	0	1
Utah	0	17	0	0	17	0	0	1
Wyoming	0	0	0	0	20	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**8**	**5**	**0**	**0**	**1**
California	0	0	0	8	5	0	0	2
Oregon	0	0	0	55	6	0	0	5
Washington	0	0	0	0	10	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**26**	**0**	**0**	**9**
Alaska	0	0	0	0	79	0	0	18
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**3**	**4**	**0**	**2**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**11**	**0**	**61**	**0**	**0**	**15**
Connecticut	0	30	0	0	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	37	0	76	0	0	37
New Hampshire	0	3	0	0	0	0	25
Rhode Island	0	0	0	0	0	0	0
Vermont	0	33	0	0	0	0	21
Middle Atlantic	**0**	**42**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	32	0	0	0	0	0
New York	0	42	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**5**	**0**	**5**	**86**	**0**	**18**
Illinois	0	32	0	93	0	0	110
Indiana	1	4	0	6	143	0	22
Michigan	5	7	0	11	0	0	36
Ohio	5	4	0	7	0	0	28
Wisconsin	0	40	0	8	0	0	29
West North Central	**2**	**16**	**0**	**11**	**0**	**0**	**12**
Iowa	2	27	0	15	0	0	41
Kansas	4	17	0	20	0	0	0
Minnesota	6	54	0	15	0	0	56
Missouri	4	6	0	45	0	0	11
Nebraska	5	207	0	39	0	0	32
North Dakota	0	7	0	37	0	0	29
South Dakota	0	125	0	35	0	0	20
South Atlantic	**0**	**7**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	28
Georgia	1	35	0	3	0	0	8
Maryland	0	133	0	0	0	0	0
North Carolina	0	32	0	2	0	0	7
South Carolina	0	41	0	5	0	0	12
Virginia	4	15	0	3	0	0	15
West Virginia	0	0	0	0	0	0	32
East South Central	**1**	**3**	**0**	**2**	**0**	**0**	**4**
Alabama	0	6	0	5	0	0	4
Kentucky	2	8	0	4	0	0	10
Mississippi	0	36	0	3	0	0	0
Tennessee	0	0	0	4	0	0	5
West South Central	**0**	**27**	**0**	**3**	**0**	**0**	**6**
Arkansas	0	186	0	21	0	0	8
Louisiana	0	100	0	4	0	0	0
Oklahoma	0	97	0	5	0	0	9
Texas	0	17	0	5	0	0	16
Mountain	**1**	**8**	**0**	**1**	**0**	**0**	**7**
Arizona	0	10	0	1	0	0	5
Colorado	0	50	0	2	0	0	39
Idaho	0	0	0	23	0	0	15
Montana	0	1,131	0	34	0	0	14
Nevada	0	0	0	1	0	0	0
New Mexico	0	23	0	4	0	0	147
Utah	0	3	0	2	0	0	49
Wyoming	4	2	0	41	0	0	46
Pacific Contiguous	**0**	**21**	**0**	**2**	**0**	**0**	**2**
California	0	24	0	1	0	0	5
Oregon	0	17	0	10	0	0	6
Washington	0	880	0	7	0	0	1
Pacific Noncontiguous	**157**	**1**	**0**	**24**	**0**	**0**	**34**
Alaska	157	4	0	24	0	0	34
Hawaii	0	1	0	0	0	0	0
U.S. Total	**1**	**2**	**0**	**1**	**86**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through August 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**	**25**	**8**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	3
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	34	65	0	0	49
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	34	13	0	0	12
Middle Atlantic	**0**	**0**	**0**	**21**	**21**	**0**	**0**	**2**
New Jersey	0	0	0	21	21	0	0	3
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**13**	**12**	**0**	**3**	**1**
Illinois	0	0	0	0	45	0	0	12
Indiana	0	0	0	21	16	0	0	1
Michigan	0	0	0	17	18	0	0	3
Ohio	0	0	0	43	81	0	0	4
Wisconsin	0	0	0	0	20	0	27	3
West North Central	**0**	**0**	**0**	**53**	**6**	**0**	**7**	**2**
Iowa	0	0	0	104	7	0	0	2
Kansas	0	0	0	0	16	0	0	3
Minnesota	0	0	0	111	13	0	0	4
Missouri	0	0	0	0	51	0	0	3
Nebraska	0	0	0	0	36	0	0	4
North Dakota	0	0	0	0	12	0	42	2
South Dakota	0	0	0	0	32	0	0	12
South Atlantic	**0**	**0**	**0**	**5**	**7**	**0**	**0**	**0**
Delaware	0	0	0	53	53	0	0	12
Florida	0	0	0	4	4	0	0	1
Georgia	0	0	0	12	12	0	0	1
Maryland	0	0	0	46	46	0	0	45
North Carolina	0	0	0	10	10	0	0	1
South Carolina	0	0	0	0	10	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**	**29**	**26**	**0**	**0**	**1**
Alabama	0	0	0	40	40	0	0	1
Kentucky	0	0	0	0	33	0	0	2
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**55**	**21**	**0**	**0**	**1**
Arkansas	0	0	0	168	168	0	0	2
Louisiana	0	0	0	0	0	0	0	2
Oklahoma	0	0	0	0	21	0	0	2
Texas	0	0	0	97	62	0	0	2
Mountain	**0**	**17**	**0**	**5**	**9**	**0**	**0**	**1**
Arizona	0	0	0	6	6	0	0	0
Colorado	0	0	0	147	56	0	0	1
Idaho	0	0	0	0	105	0	0	13
Montana	0	0	0	0	59	0	0	12
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	13	13	0	0	1
Utah	0	17	0	0	17	0	0	1
Wyoming	0	0	0	0	20	0	0	4
Pacific Contiguous	**0**	**0**	**0**	**8**	**5**	**0**	**0**	**1**
California	0	0	0	8	5	0	0	2
Oregon	0	0	0	55	6	0	0	5
Washington	0	0	0	0	10	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**26**	**0**	**0**	**9**
Alaska	0	0	0	0	79	0	0	18
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**4**	**0**	**3**	**4**	**0**	**2**	**0**

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

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

Independent Power Producers by Census Division and State, August 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**18**	**0**	**4**	**0**	**0**	**7**
Connecticut	0	56	0	3	0	0	26
Maine	0	15	0	51	0	0	8
Massachusetts	0	10	0	5	0	0	19
New Hampshire	0	897	0	0	0	0	15
Rhode Island	0	161	0	21	0	0	0
Vermont	0	0	0	0	0	0	17
Middle Atlantic	**3**	**9**	**0**	**2**	**0**	**0**	**8**
New Jersey	0	45	0	7	0	0	315
New York	0	15	0	3	0	0	8
Pennsylvania	3	11	0	2	0	0	9
East North Central	**0**	**3**	**36**	**2**	**10**	**0**	**36**
Illinois	0	2	0	11	0	0	38
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	147
Ohio	0	3	36	3	25	0	30
Wisconsin	0	0	0	0	0	0	126
West North Central	**0**	**21**	**0**	**32**	**0**	**0**	**77**
Iowa	0	80	0	2,078	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	17	0	33	0	0	96
Missouri	0	0	0	52	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**12**	**0**	**3**	**0**	**0**	**5**
Delaware	0	93	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	53	0	13	0	0	0
Georgia	0	249	0	8	0	0	0
Maryland	0	6	0	9	0	0	1
North Carolina	53	45	0	10	0	0	60
South Carolina	0	0	0	5	0	0	62
Virginia	16	18	0	2	0	0	39
West Virginia	5	0	0	21	0	0	24
East South Central	**0**	**79**	**0**	**2**	**0**	**0**	**149**
Alabama	0	106	0	2	0	0	0
Kentucky	0	0	0	0	0	0	149
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**11**	**0**	**1**	**5**	**0**	**13**
Arkansas	0	0	0	2	0	0	59
Louisiana	0	0	0	8	0	0	14
Oklahoma	0	0	0	0	0	0	0
Texas	0	13	0	1	5	0	0
Mountain	**6**	**14**	**0**	**2**	**0**	**0**	**37**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	11	0	0	79
Idaho	0	0	0	26	0	0	50
Montana	7	31	0	8	0	0	110
Nevada	0	0	0	0	0	0	54
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**25**
California	0	0	0	1	0	0	27
Oregon	0	0	0	1	0	0	87
Washington	0	46	0	16	0	0	78
Pacific Noncontiguous	**3**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	39	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**21**	**1**	**6**	**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, August 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**	**6**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	28	11	0	0	1
Maine	0	0	0	0	11	0	0	12
Massachusetts	0	0	0	7	5	0	2	4
New Hampshire	0	0	0	0	20	0	0	2
Rhode Island	0	0	0	40	8	0	0	20
Vermont	0	0	0	21	33	0	0	16
Middle Atlantic	**0**	**0**	**0**	**6**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	3
New York	0	0	0	13	7	0	0	2
Pennsylvania	0	0	0	19	8	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**15**	**0**
Illinois	0	0	0	12	7	0	0	1
Indiana	0	0	0	12	10	0	0	3
Michigan	0	0	0	0	10	0	23	1
Ohio	0	0	0	20	7	0	0	1
Wisconsin	0	0	0	43	16	0	0	1
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**5**
Iowa	0	0	0	0	11	0	0	5
Kansas	0	0	0	83	6	0	0	6
Minnesota	0	0	0	7	8	0	0	9
Missouri	0	0	0	29	15	0	0	30
Nebraska	0	0	0	44	11	0	0	11
North Dakota	0	0	0	0	8	0	0	8
South Dakota	0	0	0	168	21	0	0	21
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	23	27	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	13	5	0	1	9
Georgia	0	0	0	5	4	0	0	7
Maryland	0	0	0	12	11	0	0	2
North Carolina	0	0	0	3	3	0	0	4
South Carolina	0	0	0	21	22	0	0	6
Virginia	0	0	0	19	14	0	0	2
West Virginia	0	0	0	0	19	0	0	5
East South Central	**0**	**0**	**0**	**10**	**10**	**0**	**0**	**2**
Alabama	0	0	0	19	13	0	0	2
Kentucky	0	0	0	0	0	0	0	4
Mississippi	0	0	0	9	12	0	0	0
Tennessee	0	0	0	17	22	0	0	20
West South Central	**0**	**0**	**0**	**3**	**4**	**0**	**0**	**1**
Arkansas	0	0	0	0	32	0	0	2
Louisiana	0	0	0	0	38	0	0	3
Oklahoma	0	0	0	0	7	0	0	2
Texas	0	0	0	3	4	0	0	1
Mountain	**0**	**7**	**0**	**2**	**3**	**0**	**0**	**2**
Arizona	0	0	0	2	4	0	0	1
Colorado	0	0	0	7	5	0	0	5
Idaho	0	29	0	9	11	0	0	13
Montana	0	0	0	59	21	0	0	6
Nevada	0	7	0	2	4	0	0	3
New Mexico	0	0	0	7	7	0	0	5
Utah	0	18	0	6	6	0	0	5
Wyoming	0	0	0	0	18	0	0	11
Pacific Contiguous	**0**	**3**	**0**	**1**	**3**	**0**	**0**	**1**
California	0	3	0	1	3	0	0	1
Oregon	0	19	0	17	9	0	0	3
Washington	0	0	0	0	14	0	0	5
Pacific Noncontiguous	**0**	**18**	**0**	**14**	**21**	**0**	**0**	**4**
Alaska	0	0	0	0	112	0	0	37
Hawaii	0	18	0	14	22	0	0	4
U.S. Total	**0**	**4**	**0**	**1**	**2**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**18**	**0**	**4**	**0**	**0**	**7**
Connecticut	0	56	0	3	0	0	26
Maine	0	15	0	51	0	0	8
Massachusetts	0	10	0	5	0	0	19
New Hampshire	0	897	0	0	0	0	15
Rhode Island	0	161	0	21	0	0	0
Vermont	0	0	0	0	0	0	17
Middle Atlantic	**3**	**9**	**0**	**2**	**0**	**0**	**8**
New Jersey	0	45	0	7	0	0	315
New York	0	15	0	3	0	0	8
Pennsylvania	3	11	0	2	0	0	9
East North Central	**0**	**3**	**36**	**2**	**10**	**0**	**36**
Illinois	0	2	0	11	0	0	38
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	2	0	0	147
Ohio	0	3	36	3	25	0	30
Wisconsin	0	0	0	0	0	0	126
West North Central	**0**	**21**	**0**	**32**	**0**	**0**	**77**
Iowa	0	80	0	2,078	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	17	0	33	0	0	96
Missouri	0	0	0	52	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**12**	**0**	**3**	**0**	**0**	**5**
Delaware	0	93	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	53	0	13	0	0	0
Georgia	0	249	0	8	0	0	0
Maryland	0	6	0	9	0	0	1
North Carolina	53	45	0	10	0	0	60
South Carolina	0	0	0	5	0	0	62
Virginia	16	18	0	2	0	0	39
West Virginia	5	0	0	21	0	0	24
East South Central	**0**	**79**	**0**	**2**	**0**	**0**	**149**
Alabama	0	106	0	2	0	0	0
Kentucky	0	0	0	0	0	0	149
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**11**	**0**	**1**	**5**	**0**	**13**
Arkansas	0	0	0	2	0	0	59
Louisiana	0	0	0	8	0	0	14
Oklahoma	0	0	0	0	0	0	0
Texas	0	13	0	1	5	0	0
Mountain	**6**	**14**	**0**	**2**	**0**	**0**	**37**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	11	0	0	79
Idaho	0	0	0	26	0	0	50
Montana	7	31	0	8	0	0	110
Nevada	0	0	0	0	0	0	54
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**25**
California	0	0	0	1	0	0	27
Oregon	0	0	0	1	0	0	87
Washington	0	46	0	16	0	0	78
Pacific Noncontiguous	**3**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	39	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**2**	**21**	**1**	**6**	**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 August 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**	**6**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	28	11	0	0	1
Maine	0	0	0	0	11	0	0	12
Massachusetts	0	0	0	7	5	0	2	4
New Hampshire	0	0	0	0	20	0	0	2
Rhode Island	0	0	0	40	8	0	0	20
Vermont	0	0	0	21	33	0	0	16
Middle Atlantic	**0**	**0**	**0**	**6**	**5**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	3
New York	0	0	0	13	7	0	0	2
Pennsylvania	0	0	0	19	8	0	0	1
East North Central	**0**	**0**	**0**	**9**	**5**	**0**	**15**	**0**
Illinois	0	0	0	12	7	0	0	1
Indiana	0	0	0	12	10	0	0	3
Michigan	0	0	0	0	10	0	23	1
Ohio	0	0	0	20	7	0	0	1
Wisconsin	0	0	0	43	16	0	0	1
West North Central	**0**	**0**	**0**	**7**	**5**	**0**	**0**	**5**
Iowa	0	0	0	0	11	0	0	5
Kansas	0	0	0	83	6	0	0	6
Minnesota	0	0	0	7	8	0	0	9
Missouri	0	0	0	29	15	0	0	30
Nebraska	0	0	0	44	11	0	0	11
North Dakota	0	0	0	0	8	0	0	8
South Dakota	0	0	0	168	21	0	0	21
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**2**
Delaware	0	0	0	23	27	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	13	5	0	1	9
Georgia	0	0	0	5	4	0	0	7
Maryland	0	0	0	12	11	0	0	2
North Carolina	0	0	0	3	3	0	0	4
South Carolina	0	0	0	21	22	0	0	6
Virginia	0	0	0	19	14	0	0	2
West Virginia	0	0	0	0	19	0	0	5
East South Central	**0**	**0**	**0**	**10**	**10**	**0**	**0**	**2**
Alabama	0	0	0	19	13	0	0	2
Kentucky	0	0	0	0	0	0	0	4
Mississippi	0	0	0	9	12	0	0	0
Tennessee	0	0	0	17	22	0	0	20
West South Central	**0**	**0**	**0**	**3**	**4**	**0**	**0**	**1**
Arkansas	0	0	0	0	32	0	0	2
Louisiana	0	0	0	0	38	0	0	3
Oklahoma	0	0	0	0	7	0	0	2
Texas	0	0	0	3	4	0	0	1
Mountain	**0**	**7**	**0**	**2**	**3**	**0**	**0**	**2**
Arizona	0	0	0	2	4	0	0	1
Colorado	0	0	0	7	5	0	0	5
Idaho	0	29	0	9	11	0	0	13
Montana	0	0	0	59	21	0	0	6
Nevada	0	7	0	2	4	0	0	3
New Mexico	0	0	0	7	7	0	0	5
Utah	0	18	0	6	6	0	0	5
Wyoming	0	0	0	0	18	0	0	11
Pacific Contiguous	**0**	**3**	**0**	**1**	**3**	**0**	**0**	**1**
California	0	3	0	1	3	0	0	1
Oregon	0	19	0	17	9	0	0	3
Washington	0	0	0	0	14	0	0	5
Pacific Noncontiguous	**0**	**18**	**0**	**14**	**21**	**0**	**0**	**4**
Alaska	0	0	0	0	112	0	0	37
Hawaii	0	18	0	14	22	0	0	4
U.S. Total	**0**	**4**	**0**	**1**	**2**	**0**	**1**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**28**	**0**	**17**	**0**	**0**	**0**
Connecticut	0	3,240	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	39	0	25	0	0	0
New Hampshire	0	4	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**	**31**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	0	0	18	0	0	0
New York	0	37	0	20	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**38**	**2**	**0**	**8**	**0**	**0**	**0**
Illinois	75	0	0	27	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	3	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0
West North Central	**0**	**54**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	56	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	649	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**2**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	4	0	0	0	0	0
Maryland	0	0	0	2	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**36**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	36	0	0	0
West South Central	**0**	**0**	**0**	**20**	**0**	**0**	**560**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	22	0	0	560
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	35	0	0	0
Utah	0	0	0	9	0	0	0
Pacific Contiguous	**0**	**28**	**0**	**3**	**0**	**0**	**0**
California	0	41	0	3	0	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**40**	**22**	**0**	**0**	**0**	**0**	**149**
Alaska	40	90	0	0	0	0	149
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**10**	**0**	**4**	**0**	**0**	**100**

Displayed values of zero may 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, August 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**	**33**	**1**	**0**	**0**	**12**
Connecticut	0	0	0	0	0	0	0	25
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	33	5	0	0	22
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**12**	**6**	**0**	**3**	**7**
New Jersey	0	0	0	12	8	0	0	6
New York	0	0	0	79	10	0	7	12
Pennsylvania	0	0	0	66	13	0	0	5
East North Central	**0**	**0**	**0**	**77**	**7**	**0**	**0**	**6**
Illinois	0	0	0	0	377	0	0	26
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	77	23	0	0	1
Wisconsin	0	0	0	0	41	0	0	16
West North Central	**0**	**0**	**0**	**0**	**20**	**0**	**37**	**6**
Iowa	0	0	0	0	50	0	0	9
Minnesota	0	0	0	0	69	0	37	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	649
South Atlantic	**0**	**0**	**0**	**16**	**10**	**0**	**0**	**3**
Delaware	0	0	0	106	39	0	0	39
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	99	53	0	0	37
Georgia	0	0	0	74	57	0	0	24
Maryland	0	0	0	56	85	0	0	3
North Carolina	0	0	0	17	19	0	0	12
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	7	0	0	3
East South Central	**0**	**0**	**0**	**83**	**83**	**0**	**0**	**34**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	83	83	0	0	34
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	21
Mountain	**0**	**0**	**0**	**18**	**24**	**0**	**0**	**9**
Arizona	0	0	0	32	32	0	0	4
Colorado	0	0	0	35	96	0	0	53
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	25	25	0	0	14
New Mexico	0	0	0	0	510	0	0	36
Utah	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**15**	**11**	**0**	**0**	**4**
California	0	0	0	15	11	0	0	4
Oregon	0	0	0	0	70	0	0	32
Washington	0	0	0	0	118	0	0	115
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	60
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**7**	**4**	**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 August 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**28**	**0**	**17**	**0**	**0**	**0**
Connecticut	0	3,240	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	39	0	25	0	0	0
New Hampshire	0	4	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**	**31**	**0**	**15**	**0**	**0**	**0**
New Jersey	0	0	0	18	0	0	0
New York	0	37	0	20	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**38**	**2**	**0**	**8**	**0**	**0**	**0**
Illinois	75	0	0	27	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	3	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0
West North Central	**0**	**54**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	56	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	649	0	0	0	0	0
South Atlantic	**0**	**0**	**0**	**2**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	4	0	0	0	0	0
Maryland	0	0	0	2	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**36**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	36	0	0	0
West South Central	**0**	**0**	**0**	**20**	**0**	**0**	**560**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	22	0	0	560
Mountain	**0**	**0**	**0**	**9**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	35	0	0	0
Utah	0	0	0	9	0	0	0
Pacific Contiguous	**0**	**28**	**0**	**3**	**0**	**0**	**0**
California	0	41	0	3	0	0	0
Oregon	0	0	0	30	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**40**	**22**	**0**	**0**	**0**	**0**	**149**
Alaska	40	90	0	0	0	0	149
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**10**	**0**	**4**	**0**	**0**	**100**

Displayed values of zero may 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 August 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**	**33**	**1**	**0**	**0**	**12**
Connecticut	0	0	0	0	0	0	0	25
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	33	5	0	0	22
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**12**	**6**	**0**	**3**	**7**
New Jersey	0	0	0	12	8	0	0	6
New York	0	0	0	79	10	0	7	12
Pennsylvania	0	0	0	66	13	0	0	5
East North Central	**0**	**0**	**0**	**77**	**7**	**0**	**0**	**6**
Illinois	0	0	0	0	377	0	0	26
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	77	23	0	0	1
Wisconsin	0	0	0	0	41	0	0	16
West North Central	**0**	**0**	**0**	**0**	**20**	**0**	**37**	**6**
Iowa	0	0	0	0	50	0	0	9
Minnesota	0	0	0	0	69	0	37	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	649
South Atlantic	**0**	**0**	**0**	**16**	**10**	**0**	**0**	**3**
Delaware	0	0	0	106	39	0	0	39
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	99	53	0	0	37
Georgia	0	0	0	74	57	0	0	24
Maryland	0	0	0	56	85	0	0	3
North Carolina	0	0	0	17	19	0	0	12
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	7	0	0	3
East South Central	**0**	**0**	**0**	**83**	**83**	**0**	**0**	**34**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	83	83	0	0	34
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	21
Mountain	**0**	**0**	**0**	**18**	**24**	**0**	**0**	**9**
Arizona	0	0	0	32	32	0	0	4
Colorado	0	0	0	35	96	0	0	53
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	25	25	0	0	14
New Mexico	0	0	0	0	510	0	0	36
Utah	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**15**	**11**	**0**	**0**	**4**
California	0	0	0	15	11	0	0	4
Oregon	0	0	0	0	70	0	0	32
Washington	0	0	0	0	118	0	0	115
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Alaska	0	0	0	0	0	0	0	60
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**7**	**4**	**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, August 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**98**	**72**	**0**	**13**	**0**	**0**	**21**
Connecticut	0	0	0	19	0	0	0
Maine	98	72	0	28	0	0	22
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**15**	**20**	**54**	**11**	**25**	**0**	**30**
New Jersey	0	0	0	11	0	0	0
New York	0	17	0	16	0	0	30
Pennsylvania	26	83	83	15	33	0	0
East North Central	**6**	**16**	**0**	**7**	**12**	**0**	**47**
Illinois	5	0	0	17	0	0	0
Indiana	0	1	0	8	13	0	0
Michigan	54	401	0	16	0	0	97
Ohio	78	0	0	10	0	0	0
Wisconsin	18	258	0	21	0	0	52
West North Central	**4**	**0**	**0**	**3**	**0**	**0**	**47**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	63	0	0	0
Minnesota	15	0	0	0	0	0	47
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Atlantic	**26**	**65**	**89**	**7**	**37**	**0**	**19**
Delaware	0	0	0	17	42	0	0
Florida	57	169	0	15	0	0	0
Georgia	83	109	89	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	23	113	0	35	0	0	505
South Carolina	0	0	0	0	0	0	0
Virginia	25	323	0	9	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	**7**	**150**	**0**	**9**	**24**	**0**	**0**
Alabama	91	197	0	18	42	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	26	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**69**	**11**	**2**	**6**	**0**	**0**
Arkansas	0	136	0	25	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	42	2	10	0	0
Mountain	**8**	**0**	**0**	**3**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	65	0	0	31	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	17	0	0	8	3	0	0
Pacific Contiguous	**9**	**95**	**0**	**1**	**2**	**0**	**0**
California	0	60	0	1	2	0	0
Oregon	0	0	0	47	0	0	0
Washington	118	103	0	35	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**147**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	147
U.S. Total	**4**	**14**	**20**	**2**	**6**	**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, August 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**7**
Connecticut	0	0	0	0	0	0	0	19
Maine	0	0	0	0	7	0	0	8
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**44**	**7**	**0**	**0**	**7**
New Jersey	0	0	0	69	69	0	0	6
New York	0	0	0	0	14	0	0	7
Pennsylvania	0	0	0	46	7	0	0	11
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**4**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	58	0	0	9
Michigan	0	0	0	0	8	0	0	7
Ohio	0	0	0	0	12	0	0	8
Wisconsin	0	0	0	0	9	0	44	9
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	54
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	31
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**
Delaware	0	0	0	0	120	0	0	17
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	17	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	5
South Carolina	0	0	0	0	3	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	16	0	0	11
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	5	0	0	3
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**2**
Arkansas	0	0	0	0	5	0	0	5
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	4	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	9
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**35**	**6**	**0**	**2**	**1**
California	0	0	0	35	10	0	2	1
Oregon	0	0	0	0	11	0	0	11
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**254**	**0**	**0**	**15**
Alaska	0	0	0	0	254	0	0	8
Hawaii	0	0	0	0	0	0	0	22
U.S. Total	**0**	**0**	**0**	**26**	**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 August 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**98**	**72**	**0**	**13**	**0**	**0**	**21**
Connecticut	0	0	0	19	0	0	0
Maine	98	72	0	28	0	0	22
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**15**	**20**	**54**	**11**	**25**	**0**	**30**
New Jersey	0	0	0	11	0	0	0
New York	0	17	0	16	0	0	30
Pennsylvania	26	83	83	15	33	0	0
East North Central	**6**	**16**	**0**	**7**	**12**	**0**	**47**
Illinois	5	0	0	17	0	0	0
Indiana	0	1	0	8	13	0	0
Michigan	54	401	0	16	0	0	97
Ohio	78	0	0	10	0	0	0
Wisconsin	18	258	0	21	0	0	52
West North Central	**4**	**0**	**0**	**3**	**0**	**0**	**47**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	63	0	0	0
Minnesota	15	0	0	0	0	0	47
Missouri	0	0	0	0	0	0	0
Nebraska	7	0	0	0	0	0	0
North Dakota	56	0	0	0	0	0	0
South Atlantic	**26**	**65**	**89**	**7**	**37**	**0**	**19**
Delaware	0	0	0	17	42	0	0
Florida	57	169	0	15	0	0	0
Georgia	83	109	89	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	23	113	0	35	0	0	505
South Carolina	0	0	0	0	0	0	0
Virginia	25	323	0	9	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	**7**	**150**	**0**	**9**	**24**	**0**	**0**
Alabama	91	197	0	18	42	0	0
Kentucky	0	0	0	14	0	0	0
Mississippi	0	0	0	26	0	0	0
Tennessee	0	0	0	8	0	0	0
West South Central	**0**	**69**	**11**	**2**	**6**	**0**	**0**
Arkansas	0	136	0	25	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	42	2	10	0	0
Mountain	**8**	**0**	**0**	**3**	**3**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	65	0	0	31	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	17	0	0	8	3	0	0
Pacific Contiguous	**9**	**95**	**0**	**1**	**2**	**0**	**0**
California	0	60	0	1	2	0	0
Oregon	0	0	0	47	0	0	0
Washington	118	103	0	35	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**147**
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	147
U.S. Total	**4**	**14**	**20**	**2**	**6**	**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 August 2017 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**7**
Connecticut	0	0	0	0	0	0	0	19
Maine	0	0	0	0	7	0	0	8
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**44**	**7**	**0**	**0**	**7**
New Jersey	0	0	0	69	69	0	0	6
New York	0	0	0	0	14	0	0	7
Pennsylvania	0	0	0	46	7	0	0	11
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**4**
Illinois	0	0	0	0	0	0	0	5
Indiana	0	0	0	0	58	0	0	9
Michigan	0	0	0	0	8	0	0	7
Ohio	0	0	0	0	12	0	0	8
Wisconsin	0	0	0	0	9	0	44	9
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	54
Minnesota	0	0	0	0	0	0	0	7
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	7
North Dakota	0	0	0	0	0	0	0	31
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**
Delaware	0	0	0	0	120	0	0	17
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	17	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	5
South Carolina	0	0	0	0	3	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	9
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	16	0	0	11
Mississippi	0	0	0	0	4	0	0	6
Tennessee	0	0	0	0	5	0	0	3
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**2**
Arkansas	0	0	0	0	5	0	0	5
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	4	2
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	4	0	0	9
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**35**	**6**	**0**	**2**	**1**
California	0	0	0	35	10	0	2	1
Oregon	0	0	0	0	11	0	0	11
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**254**	**0**	**0**	**15**
Alaska	0	0	0	0	254	0	0	8
Hawaii	0	0	0	0	0	0	0	22
U.S. Total	**0**	**0**	**0**	**26**	**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, August 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**1**	**4**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	9	0	1
New Hampshire	1	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	3	4	8	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	3	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	2	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	7	5	0	3
Kansas	2	1	6	0	2
Minnesota	2	4	6	0	3
Missouri	1	1	7	0	1
Nebraska	2	7	7	0	3
North Dakota	2	5	9	0	4
South Dakota	3	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	1	5	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	0	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	4	0	2
Mississippi	2	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	1	1	1	0	1
Oklahoma	2	1	4	0	1
Texas	2	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	2	5	5	0	2
Idaho	1	4	2	0	2
Montana	3	7	7	0	4
Nevada	0	3	1	0	1
New Mexico	3	8	7	0	4
Utah	2	5	3	0	2
Wyoming	3	7	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	8	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	**1**	**5**	**4**	**0**	**2**
Alaska	3	10	13	0	6
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 August 2017

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

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through August 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	2	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	**1**	**1**	**2**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	5	0	2
Missouri	1	1	4	0	1
Nebraska	1	5	7	0	3
North Dakota	1	3	6	0	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	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	3	0	0
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	2	3	0	1
Mississippi	1	2	4	0	1
Tennessee	1	1	4	0	1
West South Central	**1**	**0**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	2	0	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	3
Nevada	0	3	1	0	1
New Mexico	1	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	**1**	**2**	**2**	**0**	**1**
Alaska	2	5	9	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

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

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

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

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

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

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

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

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

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

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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

Table B.2 Major Disturbances and Unusual Occurrences, 2016

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

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

Appendix C

Technical notes

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

Data quality

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

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

Reliability of data

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

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

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

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

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

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

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

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

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Issues within historical data series:

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

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

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

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

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

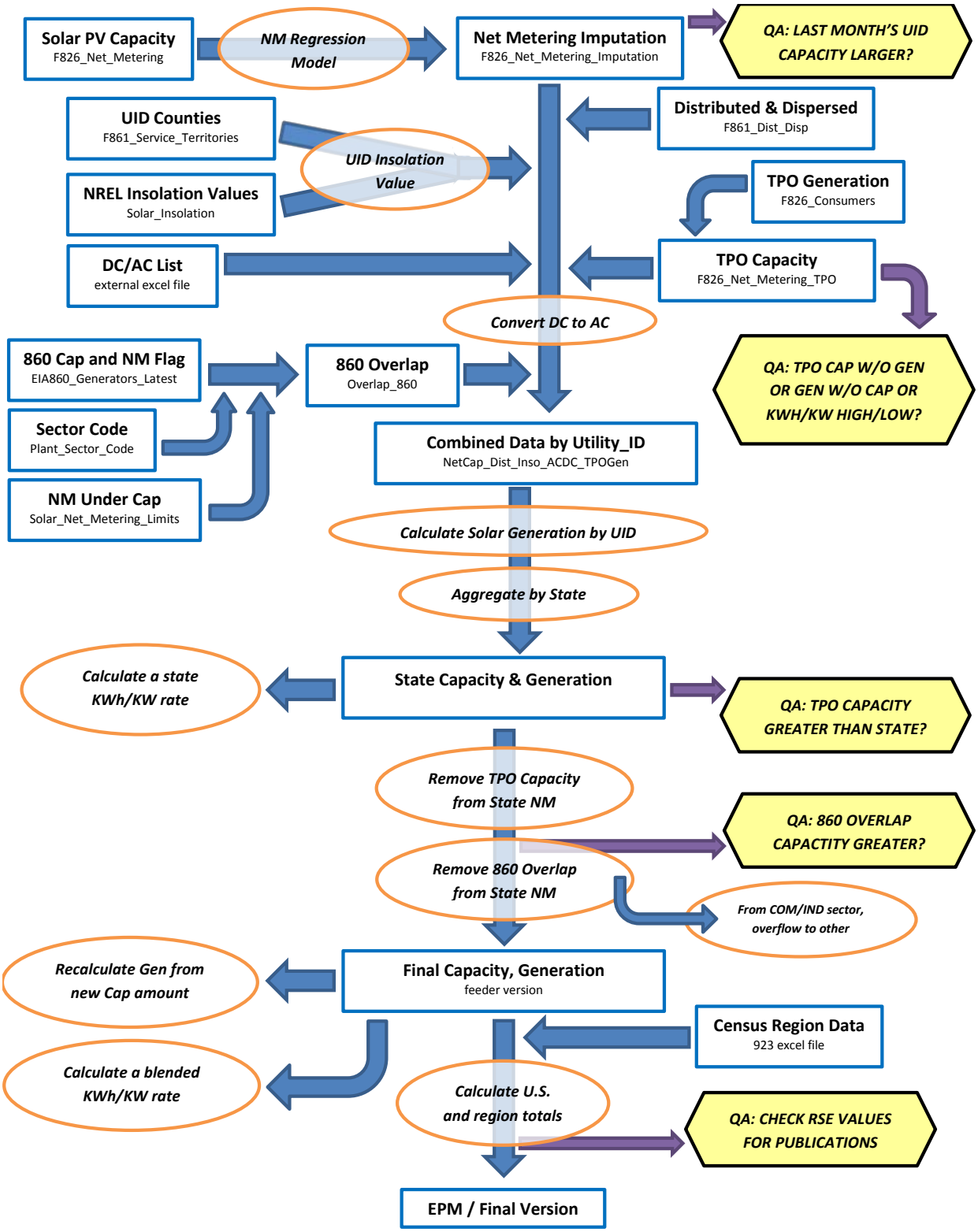
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, August 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	6.08	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.40	6.25	--	1.01
Massachusetts	--	5.81	--	1.03
New Hampshire	--	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.81	5.86	--	1.03
New Jersey	25.87	5.74	--	1.04
New York	25.94	5.87	--	1.03
Pennsylvania	23.73	5.86	--	1.04
East North Central	20.11	5.80	27.48	1.04
Illinois	17.70	5.78	--	1.01
Indiana	22.47	5.76	--	1.06
Michigan	18.68	5.81	27.46	1.03
Ohio	24.66	5.81	--	1.06
Wisconsin	17.74	5.81	27.61	1.02
West North Central	16.59	5.79	27.60	1.05
Iowa	17.82	5.76	27.60	1.06
Kansas	17.17	5.80	--	1.04
Minnesota	17.72	5.80	--	1.03
Missouri	17.63	5.81	--	1.01
Nebraska	16.96	--	--	1.08
North Dakota	13.04	5.78	--	1.00
South Dakota	16.55	--	--	--
South Atlantic	23.54	5.84	27.89	1.03
Delaware	--	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.55	5.81	27.89	1.02
Georgia	20.17	5.89	--	1.03
Maryland	24.98	5.81	--	1.05
North Carolina	25.20	5.99	--	1.04
South Carolina	24.82	5.80	--	1.03
Virginia	21.71	5.88	--	1.05
West Virginia	24.72	5.82	--	1.08
East South Central	21.15	5.76	--	1.03
Alabama	19.69	5.65	--	1.03
Kentucky	22.44	5.81	--	1.01
Mississippi	16.19	5.80	--	1.03
Tennessee	22.02	5.76	--	1.01
West South Central	16.02	5.85	28.42	1.03
Arkansas	17.67	5.80	--	1.02
Louisiana	17.08	--	28.42	1.03
Oklahoma	17.16	5.80	--	1.04
Texas	15.50	5.86	--	1.03
Mountain	18.59	5.70	--	1.05
Arizona	19.27	5.51	--	1.04
Colorado	18.54	5.80	--	1.08
Idaho	--	--	--	--
Montana	17.04	5.92	--	1.04
Nevada	18.73	5.80	--	1.04
New Mexico	18.60	5.66	--	1.05
Utah	21.22	5.86	--	1.04
Wyoming	17.62	5.88	--	1.05
Pacific Contiguous	17.60	5.94	--	1.04
California	22.88	--	--	1.03
Oregon	17.31	5.93	--	1.06
Washington	17.01	6.00	--	1.12
Pacific Noncontiguous	18.57	6.14	--	1.00
Alaska	14.28	--	--	1.00
Hawaii	19.77	6.14	--	--
U.S. Total	19.18	6.05	28.07	1.03

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
'Petroleum Coke' includes petroleum coke and synthesis gas derived from petroleum coke.
'Natural Gas' includes a small amount of supplemental gaseous fuels.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2013 through 2015

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2013**	**2014**	**2015**
Net Generation			
Coal	0.31%	0.25%	0.33%
Petroleum Liquids	4.04%	2.32%	1.00%
Petroleum Coke	0.95%	2.96%	1.60%
Natural Gas	0.98%	0.42%	0.18%
Other Gases	5.81%	4.12%	3.90%
Hydroelectric	0.65%	0.49%	1.08%
Nuclear	0.00%	0.01%	0.01%
Other	0.56%	0.43%	0.80%
Total	**0.19%**	**0.08%**	**0.23%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.07%	0.13%	0.24%
Petroleum Liquids	3.49%	2.17%	2.28%
Petroleum Coke	1.03%	3.19%	1.50%
Natural Gas	0.99%	0.48%	0.32%
Fuel Stocks for Electric Power Sector			
Coal	0.25%	0.38%	0.40%
Petroleum Liquids	2.54%	4.25%	2.92%
Petroleum Coke	0.08%	0.61%	0.04%
Retail Sales			
Residential	0.26%	0.30%	0.30%
Commercial	0.22%	0.38%	0.18%
Industrial	3.20%	4.39%	2.92%
Transportation	1.45%	0.44%	0.37%
Total	**0.90%**	**1.10%**	**0.93%**
Revenue			
Residential	0.34%	0.43%	0.15%
Commercial	0.47%	0.47%	0.62%
Industrial	4.28%	5.66%	3.15%
Transportation	3.84%	1.92%	1.09%
Total	**0.76%**	**1.01%**	**0.83%**
Average Retail Price			
Residential	0.12%	0.12%	0.15%
Commercial	0.30%	0.20%	0.44%
Industrial	1.05%	1.20%	0.31%
Transportation	2.49%	2.18%	0.83%
Total	**0.17%**	**0.16%**	**0.11%**
Receipt of Fossil Fuels			
Coal	2.50%	2.20%	1.70%
Petroleum Liquids	0.79%	0.49%	1.86%
Petroleum Coke	2.30%	2.03%	2.47%
Natural Gas	0.47%	0.26%	0.25%
Cost of Fossil Fuels			
Coal	0.18%	0.18%	0.04%
Petroleum Liquids	0.14%	0.04%	0.25%
Petroleum Coke	1.22%	1.03%	1.42%
Natural Gas	0.02%	0.06%	0.14%

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

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2013 through 2015

	2013			2014			2015		
Item	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%
Petroleum Liquids	13,410	13,820	3.06%	18,708	18,276	-2.31%	17,456	17,372	-0.48%
Petroleum Coke	13,453	13,344	-0.81%	11,781	11,955	1.48%	10,987	10,877	-1.00%
Natural Gas	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%
Other Gases	12,271	12,853	4.75%	11,578	12,022	3.83%	12,963	13,117	1.18%
Hydroelectric	264,713	263,884	-0.31%	252,540	253,193	0.26%	246,075	243,989	-0.85%
Nuclear	789,017	789,016	0.00%	797,067	797,166	0.01%	797,178	797,178	0.00%
Other	265,683	267,096	0.53%	293,636	292,674	-0.33%	311,597	309,189	-0.77%
Total	**4,058,209**	**4,065,964**	**0.19%**	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	860,790	860,729	-0.01%	854,416	853,634	-0.09%	740,855	739,594	-0.17%
Petroleum Liquids (1,000 barrels)	22,751	23,231	2.11%	32,084	31,531	-1.72%	29,545	28,925	-2.10%
Petroleum Coke (1,000 tons)	4,893	4,852	-0.83%	4,325	4,412	2.02%	4,088	4,044	-1.07%
Natural Gas (1,000 Mcf)	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	147,973	147,884	-0.06%	151,362	151,548	0.12%	197,128	195,548	-0.80%
Petroleum Liquids (1,000 barrels)	31,045	31,673	2.03%	32,139	33,505	4.25%	32,223	32,884	2.05%
Petroleum Coke (1,000 tons)	390	390	-0.01%	847	827	-2.29%	1,342	1,340	-0.15%
Retail Sales (Million kWh)									
Residential	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%
Commercial	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%
Industrial	954,731	985,352	3.21%	955,488	997,576	4.40%	958,563	986,508	2.92%
Transportation	7,525	7,625	1.32%	7,776	7,758	-0.24%	7,659	7,637	-0.29%
Total	**3,691,822**	**3,724,868**	**0.90%**	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**
Revenue (Million Dollars)									
Residential	168,547	169,131	0.35%	175,404	176,178	0.44%	177,367	177,624	0.14%
Commercial	137,779	137,188	-0.43%	145,889	145,253	-0.44%	143,893	144,781	0.62%
Industrial	65,111	67,934	4.33%	67,019	70,855	5.72%	66,088	68,166	3.14%
Transportation	775	805	3.84%	798	810	1.51%	779	771	-1.12%
Total	**372,213**	**375,058**	**0.76%**	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**
Average Retail Price (Cents/kWh)									
Residential	12.12	12.13	0.08%	12.50	12.52	0.13%	12.67	12.65	-0.16%
Commercial	10.29	10.26	-0.33%	10.75	10.74	-0.04%	10.59	10.64	0.44%
Industrial	6.82	6.89	1.09%	7.01	7.10	1.26%	6.89	6.91	0.22%
Transportation	10.30	10.55	2.49%	10.27	10.45	1.75%	10.17	10.09	-0.83%
Total	**10.08**	**10.07**	**-0.13%**	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	803,206	823,222	2.49%	836,196	854,560	2.20%	769,866	782,929	1.70%
Petroleum Liquids (1,000 barrels)	20,348	20,413	0.32%	28,355	28,514	0.56%	24,512	24,320	-0.78%
Petroleum Coke (1,000 tons)	4,555	4,660	2.31%	5,091	5,195	2.03%	4,779	4,897	2.46%
Natural Gas (1,000 Mcf)	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.35	2.34	-0.12%	2.37	2.37	0.02%	2.22	2.22	-0.03%
Petroleum Liquids (1,000 barrels)	20.59	20.56	-0.12%	19.89	19.89	-0.03%	11.48	11.49	0.10%
Petroleum Coke (1,000 tons)	2.16	2.17	0.70%	1.96	1.98	0.97%	1.87	1.84	-1.37%
Natural Gas (1,000 Mcf)	4.33	4.33	0.03%	4.99	4.99	0.01%	3.22	3.23	0.18%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2015 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';
Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report';
and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

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

Source: U.S. Energy Information Administration

Glossary

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Geothermal: Pertaining to heat within the Earth.

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

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

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

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

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

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

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

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

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

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

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

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

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

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

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

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

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

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

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

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Petroleum coke: See Coke (petroleum).

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

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

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

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

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

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

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

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

Receipts: Purchases of fuel.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

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

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

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

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

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

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

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

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

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

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

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