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Preface

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

Background

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

Data sources

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

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					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	89,648	72,138	24.3%	66,356	56,901	22,573	14,354	35	44	684	839	0	0
Petroleum Liquids	Utility Scale Facilities	971	820	18.4%	761	584	162	205	NM	NM	36	27	0	0
Petroleum Coke	Utility Scale Facilities	744	945	-21.2%	535	724	122	138	1	1	86	82	0	0
Natural Gas	Utility Scale Facilities	92,638	103,791	-10.7%	45,000	49,809	39,713	45,836	638	595	7,287	7,551	0	0
Other Gas	Utility Scale Facilities	1,206	1,241	-2.8%	20	6	362	367	0	0	825	868	0	0
Nuclear	Utility Scale Facilities	65,093	66,149	-1.6%	34,693	34,445	30,400	31,704	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	30,198	27,025	11.7%	27,998	24,916	2,049	1,956	NM	NM	136	147	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	36,873	31,344	17.6%	4,390	3,866	29,836	24,824	263	294	2,384	2,360	0	0
... Wind	Utility Scale Facilities	25,599	21,979	16.5%	3,606	3,252	21,970	18,706	16	14	NM	8	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	4,474	2,713	64.9%	292	173	4,132	2,491	47	47	2	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,504	3,381	3.7%	288	234	942	914	3	3	2,272	2,230	0	0
... Other Biomass	Utility Scale Facilities	1,763	1,810	-2.6%	124	113	1,338	1,347	197	230	103	119	0	0
... Geothermal	Utility Scale Facilities	1,533	1,460	5.0%	80	94	1,452	1,367	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-517	-384	34.5%	-450	-291	-66	-93	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,078	1,099	-1.9%	51	34	527	556	82	98	418	412	0	0
All Energy Sources	Utility Scale Facilities	317,934	304,168	4.5%	179,355	170,993	125,678	119,847	1,045	1,043	11,856	12,284	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,054	1,582	29.8%	0	0	0	0	703	608	210	150	1,142	824
Estimated Total Solar Photovoltaic	All Facilities	6,232	4,038	54.3%	292	167	3,836	2,239	751	655	212	NM	1,142	824
Estimated Total Solar	All Facilities	6,529	4,295	52.0%	292	173	4,132	2,491	751	655	212	NM	1,142	824
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	48,915	39,857	22.7%	35,948	31,044	12,697	8,495	12	14	259	304	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,652	1,367	20.9%	1,341	1,045	249	284	21	NM	42	31	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	276	366	-24.6%	215	283	43	63	0	0	19	20	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	700,918	775,091	-9.6%	345,125	379,524	297,948	337,795	6,008	5,413	51,837	52,359	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,184	1,376	-14.0%	102	108	155	142	43	61	884	1,065	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	162	183	-11.5%	1	0	47	89	25	NM	89	87	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	87	108	-19.5%	0	0	10	10	2	2	75	96	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	84,133	80,136	5.0%	841	959	23,209	24,327	4,285	4,160	55,797	50,691	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	50,099	41,233	21.5%	36,050	31,151	12,851	8,636	55	75	1,143	1,370	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,814	1,549	17.1%	1,341	1,045	296	373	46	NM	131	118	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	363	474	-23.4%	215	283	52	74	2	2	94	116	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	785,050	855,227	-8.2%	345,965	380,483	321,158	362,122	10,293	9,572	107,634	103,049	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	164,873	193,780	-14.9%	129,324	149,113	34,577	43,156	144	160	828	1,350	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	31,157	33,382	-6.7%	20,105	20,697	9,344	10,883	386	419	1,322	1,384	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,036	1,508	-31.3%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for March									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	March 2017	March 2016	Percentage Change	March 2017	March 2016	Percentage Change	March 2017	March 2016	Percentage Change
Residential	103,210	100,123	3.1%	13,315	12,585	5.8%	12.90	12.57	2.6%
Commercial	106,991	105,180	1.7%	11,210	10,682	4.9%	10.48	10.16	3.1%
Industrial	77,018	75,907	1.5%	5,189	4,908	5.7%	6.74	6.47	4.2%
Transportation	644	610	5.6%	61	58	6.2%	9.48	9.43	0.5%
All Sectors	287,863	281,819	2.1%	29,774	28,233	5.5%	10.34	10.02	3.2%

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 March															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	292,465	278,408	5.0%	217,789	210,767	72,416	64,975	106	134	2,153	2,531	0	0
Petroleum Liquids	Utility Scale Facilities	3,063	3,400	-9.9%	2,260	2,289	651	970	39	29	112	113	0	0
Petroleum Coke	Utility Scale Facilities	2,396	2,803	-14.5%	1,818	2,289	356	279	3	3	220	231	0	0
Natural Gas	Utility Scale Facilities	262,544	311,768	-15.8%	126,393	149,948	112,166	137,532	1,875	1,793	22,110	22,495	0	0
Other Gas	Utility Scale Facilities	3,473	3,672	-5.4%	58	14	1,032	1,070	0	0	2,384	2,589	0	0
Nuclear	Utility Scale Facilities	202,267	204,312	-1.0%	107,521	106,700	94,745	97,611	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	82,514	76,601	7.7%	76,365	70,033	5,738	6,139	NM	NM	387	413	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	96,918	87,533	10.7%	11,208	11,067	77,805	68,511	744	803	7,160	7,151	0	0
... Wind	Utility Scale Facilities	67,640	60,714	11.4%	9,190	9,200	58,394	51,455	37	38	19	21	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	9,242	6,671	38.5%	634	432	8,506	6,118	97	114	5	7	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	10,263	10,390	-1.2%	767	802	2,638	2,782	18	16	6,841	6,790	0	0
... Other Biomass	Utility Scale Facilities	5,330	5,454	-2.3%	360	352	4,083	4,134	592	635	295	332	0	0
... Geothermal	Utility Scale Facilities	4,443	4,304	3.2%	258	281	4,185	4,023	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,439	-1,094	31.5%	-1,192	-854	-246	-241	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	3,220	3,260	-1.2%	147	88	1,630	1,704	247	265	1,197	1,203	0	0
All Energy Sources	Utility Scale Facilities	947,419	970,662	-2.4%	542,367	552,341	366,293	378,551	3,037	3,045	35,724	36,727	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	4,786	3,792	26.2%	0	0	0	0	1,709	1,485	469	357	2,608	1,950
Estimated Total Solar Photovoltaic	All Facilities	13,505	9,879	36.7%	634	419	7,984	5,547	1,807	1,599	474	363	2,608	1,950
Estimated Total Solar	All Facilities	14,028	10,464	34.1%	634	432	8,506	6,118	1,807	1,599	474	363	2,608	1,950
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	160,612	152,472	5.3%	118,637	114,262	41,109	37,248	40	43	826	919	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	5,192	5,807	-10.6%	4,013	4,131	982	1,518	65	32	131	126	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	904	1,036	-12.7%	733	856	122	120	1	1	48	60	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,963,208	2,295,526	-14.5%	953,546	1,122,725	833,732	1,000,611	17,580	16,290	158,350	155,900	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	3,543	4,269	-17.0%	310	301	416	434	127	186	2,689	3,349	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	588	650	-9.6%	9	12	217	241	79	39	283	359	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	227	274	-17.2%	1	1	27	29	5	6	194	238	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	248,494	243,504	2.0%	2,877	3,189	66,358	73,377	13,833	12,931	165,427	154,007	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	164,155	156,741	4.7%	118,947	114,563	41,525	37,682	167	228	3,516	4,268	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	5,780	6,458	-10.5%	4,022	4,143	1,200	1,759	144	71	414	485	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,131	1,310	-13.7%	734	857	150	149	6	7	242	298	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,211,703	2,539,030	-12.9%	956,422	1,125,914	900,090	1,073,988	31,413	29,220	323,777	309,908	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through March									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	Percentage Change
Residential	333,347	346,707	-3.9%	42,034	42,310	-0.7%	12.61	12.20	3.4%
Commercial	315,694	317,926	-0.7%	32,760	32,179	1.8%	10.38	10.12	2.6%
Industrial	224,354	225,708	-0.6%	14,909	14,489	2.9%	6.65	6.42	3.6%
Transportation	1,947	1,916	1.6%	183	181	1.3%	9.42	9.44	-0.2%
All Sectors	875,342	892,258	-1.9%	89,886	89,159	0.8%	10.27	9.99	2.8%

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

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

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal (1000 tons)	50,174	44,893	40.17	42.88	261	264	158,809	148,122	39.93	41.39
Petroleum Liquids (1000 barrels)	2,018	1,132	69.01	41.82	129	133	4,579	3,939	70.15	44.11
Petroleum Coke (1000 tons)	309	363	57.51	40.14	7	10	831	1,112	57.83	38.18
Natural Gas (1000 Mcf)	597,210	770,399	3.47	2.31	481	721	1,701,523	2,273,907	3.81	2.74

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal (1000 tons)	36,293	34,396	41.15	43.57	177	181	115,034	110,085	41.04	42.43
Petroleum Liquids (1000 barrels)	1,759	851	68.94	41.06	81	86	3,582	2,826	68.65	43.84
Petroleum Coke (1000 tons)	309	294	57.51	34.47	7	7	831	927	57.83	32.76
Natural Gas (1000 Mcf)	288,239	370,058	3.67	2.61	254	380	809,356	1,094,482	4.04	3.02

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal (1000 tons)	13,058	9,832	36.69	39.03	65	62	41,543	36,156	36.13	37.09
Petroleum Liquids (1000 barrels)	231	254	69.90	43.40	37	38	929	1,018	76.03	43.83
Petroleum Coke (1000 tons)	0	48	--	W	0	1	0	144	--	68.45
Natural Gas (1000 Mcf)	255,227	340,715	3.31	1.96	181	292	728,637	1,001,297	3.62	2.45

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal (1000 tons)	5	7	W	W	1	1	13	19	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	662	610	W	W	3	3	1,924	2,290	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal (1000 tons)	819	658	W	W	18	20	2,218	1,862	W	W
Petroleum Liquids (1000 barrels)	29	28	66.36	51.02	11	9	68	95	69.80	55.27
Petroleum Coke (1000 tons)	0	21	--	W	0	2	0	40	--	W
Natural Gas (1000 Mcf)	53,082	59,017	W	W	43	46	161,605	175,839	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	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal	966,998	884,181	2.08	2.18	261	264	3,045,854	2,869,936	2.08	2.14
Petroleum Liquids	11,990	6,862	11.62	6.90	129	133	27,416	23,763	11.72	7.31
Petroleum Coke	8,628	10,312	2.06	1.41	7	10	23,280	31,224	2.06	1.36
Natural Gas	616,865	796,031	3.36	2.23	481	721	1,758,822	2,352,001	3.69	2.65
Fossil Fuels	1,604,481	1,697,386	2.62	2.22	647	888	4,855,373	5,276,923	2.69	2.37

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal	702,185	681,849	2.13	2.20	177	181	2,218,181	2,146,411	2.13	2.18
Petroleum Liquids	10,468	5,220	11.58	6.69	81	86	21,529	17,217	11.42	7.20
Petroleum Coke	8,628	8,402	2.06	1.21	7	7	23,280	26,174	2.06	1.16
Natural Gas	297,742	382,382	3.56	2.53	254	380	836,604	1,131,687	3.91	2.92
Fossil Fuels	1,019,024	1,077,853	2.64	2.33	366	497	3,099,594	3,321,490	2.67	2.45

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal	247,658	187,520	1.93	2.05	65	62	780,430	681,617	1.92	1.97
Petroleum Liquids	1,344	1,471	12.02	7.48	37	38	5,461	5,960	12.93	7.47
Petroleum Coke	0	1,337	--	W	0	1	0	3,954	--	2.50
Natural Gas	263,669	352,243	3.21	1.90	181	292	753,315	1,036,480	3.50	2.37
Fossil Fuels	512,671	542,571	2.55	W	233	340	1,539,205	1,728,011	2.66	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal	104	163	W	W	1	1	307	425	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	680	620	W	W	3	3	1,988	2,349	W	W
Fossil Fuels	784	783	W	W	3	3	2,294	2,774	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
Coal	17,051	14,648	W	W	18	20	46,937	41,482	W	W
Petroleum Liquids	178	170	10.66	8.30	11	9	426	586	11.21	8.99
Petroleum Coke	0	574	--	W	0	2	0	1,096	--	W
Natural Gas	54,774	60,786	W	W	43	46	166,916	181,484	W	W
Fossil Fuels	72,002	76,179	W	W	45	48	214,279	224,648	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-March 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
Year to Date															
2015	367,915	8,209	2,863	292,425	3,362	202,278	70,705	4,711	64,915	-1,416	3,156	1,019,123	2,696	6,897	7,407
2016	278,408	3,400	2,803	311,768	3,672	204,312	76,601	6,671	80,862	-1,094	3,260	970,662	3,792	9,879	10,464
2017	292,465	3,063	2,396	262,544	3,473	202,267	82,514	9,242	87,676	-1,439	3,220	947,419	4,786	13,505	14,028
Rolling 12 Months Ending in March															
2016	1,262,891	12,562	10,817	1,352,825	13,427	799,211	254,976	26,853	286,215	-4,769	14,132	4,029,141	15,236	38,788	42,089
2017	1,254,165	12,337	10,825	1,331,071	12,801	803,282	271,742	39,325	313,675	-7,030	13,643	4,055,836	20,460	56,459	59,785

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-March 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
Year to Date													
2015	45,392	4,201	510	10,546	2,591	1,628	743	4,016	70,705	140,331	2,696	6,897	7,407
2016	60,714	6,087	584	10,390	2,837	1,762	855	4,304	76,601	164,134	3,792	9,879	10,464
2017	67,640	8,720	522	10,263	2,791	1,702	838	4,443	82,514	179,431	4,786	13,505	14,028
Rolling 12 Months Ending in March													
2016	206,041	23,552	3,301	41,773	11,537	7,346	3,313	16,205	254,976	568,044	15,236	38,788	42,089
2017	233,798	35,999	3,326	40,377	11,516	7,315	3,114	17,556	271,742	624,742	20,460	56,459	59,785

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-March 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
Year to Date												
2015	264,269	3,856	2,193	136,496	71	106,183	66,121	282	9,130	-1,165	117	587,553
2016	210,767	2,289	2,289	149,948	14	106,700	70,033	432	10,635	-854	88	552,341
2017	217,789	2,260	1,818	126,393	58	107,521	76,365	634	10,574	-1,192	147	542,367
Rolling 12 Months Ending in March												
2016	944,883	8,818	8,374	631,269	NM	417,197	233,552	1,644	37,497	-3,793	528	2,280,110
2017	930,321	8,642	8,409	630,921	NM	425,221	252,982	2,473	40,527	-5,968	371	2,294,107

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.
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Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2007-March 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
Year to Date												
2015	100,656	4,056	401	133,271	979	96,096	4,220	4,349	48,066	-251	1,576	393,418
2016	64,975	970	279	137,532	1,070	97,611	6,139	6,118	62,393	-241	1,704	378,551
2017	72,416	651	356	112,166	1,032	94,745	5,738	8,506	69,299	-246	1,630	366,293
Rolling 12 Months Ending in March												
2016	306,928	3,154	1,479	624,100	3,607	382,014	19,914	24,731	217,186	-976	6,967	1,589,104
2017	314,583	3,055	1,477	600,475	3,864	378,061	17,420	36,274	242,310	-1,062	7,052	1,603,510

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-March 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
Year to Date															
2015	166	105	3	1,623	0	0	9	76	650	0	256	2,889	1,162	1,238	1,238
2016	134	29	3	1,793	0	0	NM	114	689	0	265	3,045	1,485	1,599	1,599
2017	106	39	3	1,875	0	0	NM	97	647	0	247	3,037	1,709	1,807	1,807
Rolling 12 Months Ending in March															
2016	477	NM	8	7,641	0	0	NM	454	2,842	0	1,179	12,751	6,013	6,467	6,467
2017	408	NM	5	7,832	0	0	NM	548	2,553	0	1,057	12,585	7,404	7,952	7,952

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.
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Displayed values of zero may 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-March 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
Year to Date															
2015	2,823	192	265	21,036	2,312	0	356	4	7,068	0	1,206	35,262	284	288	288
2016	2,531	113	231	22,495	2,589	0	413	7	7,144	0	1,203	36,727	357	363	363
2017	2,153	112	220	22,110	2,384	0	387	5	7,155	0	1,197	35,724	469	474	474
Rolling 12 Months Ending in March															
2016	10,604	483	956	89,815	9,678	0	1,467	NM	28,691	0	5,459	147,176	1,524	NM	NM
2017	8,853	524	NM	91,843	8,728	0	1,274	NM	28,285	0	5,163	145,634	1,935	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.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-March 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
Year to Date	
2015	1,250
2016	1,950
2017	2,608
Rolling 12 Months Ending in March	
2016	7,699
2017	11,122

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, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	9,248	8,339	10.9%	214	201	8,654	7,780	112	110	269	248
Connecticut	2,932	3,028	-3.2%	7	NM	2,847	2,952	34	33	43	39
Maine	1,039	886	17.3%	0	NM	821	678	18	17	200	190
Massachusetts	3,182	2,361	34.8%	NM	45	3,065	2,252	47	49	23	NM
New Hampshire	1,448	1,241	16.7%	70	66	1,368	1,168	7	NM	3	NM
Rhode Island	455	634	-28.2%	1	1	449	628	5	NM	0	0
Vermont	192	189	1.8%	89	86	103	102	0	NM	0	0
Middle Atlantic	33,218	32,188	3.2%	2,957	2,710	29,656	28,880	195	200	411	399
New Jersey	6,222	6,782	-8.3%	6	3	6,088	6,662	61	60	67	58
New York	10,613	10,399	2.1%	2,936	2,700	7,489	7,506	94	106	94	86
Pennsylvania	16,382	15,007	9.2%	15	NM	16,079	14,712	39	34	250	255
East North Central	47,011	43,987	6.9%	19,892	18,750	25,986	24,230	152	164	980	843
Illinois	14,712	14,223	3.4%	504	492	13,924	13,483	36	33	248	215
Indiana	8,036	7,853	2.3%	6,730	6,309	888	1,255	17	22	402	267
Michigan	9,366	9,017	3.9%	6,550	6,034	2,625	2,765	68	82	122	135
Ohio	10,130	8,155	24.2%	2,378	2,161	7,663	5,911	21	NM	68	71
Wisconsin	4,767	4,740	0.6%	3,729	3,754	887	817	10	NM	140	154
West North Central	27,875	24,672	13.0%	21,893	19,782	5,604	4,465	46	60	331	365
Iowa	4,273	4,085	4.6%	2,908	2,747	1,211	1,135	17	22	137	181
Kansas	4,241	3,656	16.0%	2,557	2,310	1,677	1,337	0	0	7	NM
Minnesota	4,998	4,805	4.0%	3,742	3,755	1,092	911	14	20	150	120
Missouri	6,855	5,661	21.1%	6,540	5,443	296	198	13	16	5	NM
Nebraska	2,943	2,861	2.9%	2,435	2,502	485	324	2	NM	21	34
North Dakota	3,402	2,814	20.9%	2,751	2,430	639	367	0	NM	11	17
South Dakota	1,162	789	47.4%	959	596	204	193	NM	NM	0	0
South Atlantic	61,633	58,713	5.0%	51,779	48,510	8,127	8,608	102	123	1,625	1,471
Delaware	586	611	-4.2%	NM	NM	462	516	1	NM	122	90
District of Columbia	9	NM	NM	0	0	5	0	4	NM	0	0
Florida	17,715	17,505	1.2%	16,438	15,766	816	1,312	7	NM	454	417
Georgia	9,450	9,067	4.2%	7,793	7,747	1,211	916	NM	NM	445	402
Maryland	2,592	2,965	-12.6%	NM	NM	2,524	2,896	42	43	26	25
North Carolina	10,475	8,789	19.2%	9,305	7,893	1,022	735	23	24	126	137
South Carolina	7,240	7,575	-4.4%	6,805	6,893	274	543	0	NM	161	138
Virginia	7,930	6,928	14.5%	6,790	5,950	921	752	25	38	195	189
West Virginia	5,636	5,268	7.0%	4,647	4,256	892	938	0	0	97	74
East South Central	28,326	26,681	6.2%	24,050	22,191	3,544	3,712	14	NM	717	764
Alabama	10,803	11,073	-2.4%	7,671	7,715	2,807	2,999	0	0	325	360
Kentucky	5,714	5,973	-4.3%	5,606	5,864	59	53	0	0	49	55
Mississippi	5,515	4,161	32.5%	4,698	3,355	658	641	0	NM	159	164
Tennessee	6,294	5,475	15.0%	6,076	5,258	21	19	14	NM	184	185
West South Central	50,412	51,596	-2.3%	14,774	16,960	29,573	27,846	83	83	5,982	6,708
Arkansas	3,922	4,705	-16.7%	2,750	3,205	1,036	1,349	1	NM	135	151
Louisiana	7,399	8,501	-13.0%	4,136	5,039	964	815	16	NM	2,284	2,632
Oklahoma	5,755	5,624	2.3%	2,603	2,957	3,076	2,594	0	NM	76	72
Texas	33,337	32,765	1.7%	5,286	5,758	24,497	23,088	66	67	3,487	3,853
Mountain	26,940	26,582	1.3%	21,076	20,567	5,566	5,688	49	33	249	294
Arizona	7,172	7,523	-4.7%	6,569	6,611	590	904	13	NM	0	0
Colorado	4,365	4,296	1.6%	3,211	3,152	1,144	1,136	NM	NM	7	NM
Idaho	1,556	1,522	2.2%	1,053	999	452	464	4	NM	47	57
Montana	2,333	2,116	10.2%	1,161	871	1,169	1,242	0	0	3	NM
Nevada	2,740	2,929	-6.5%	1,794	2,174	916	722	12	NM	18	NM
New Mexico	2,978	2,350	26.7%	2,295	1,578	674	766	9	NM	0	NM
Utah	2,223	2,460	-9.6%	1,811	2,194	347	178	7	NM	58	82
Wyoming	3,574	3,384	5.6%	3,182	2,986	276	275	0	0	117	123
Pacific Contiguous	31,982	30,165	6.0%	21,833	20,505	8,653	8,302	240	206	1,255	1,152
California	16,102	14,330	12.4%	7,553	6,626	7,241	6,531	231	195	1,077	979
Oregon	5,089	5,845	-12.9%	4,235	4,651	797	1,144	6	NM	52	43
Washington	10,791	9,990	8.0%	10,045	9,229	616	628	4	NM	126	130
Pacific Noncontiguous	1,290	1,245	3.6%	888	816	314	337	51	51	37	40
Alaska	459	486	-5.5%	409	440	NM	21	NM	14	12	NM
Hawaii	830	759	9.4%	478	376	300	316	27	37	25	30
U.S. Total	317,934	304,168	4.5%	179,355	170,993	125,678	119,847	1,045	1,043	11,856	12,284

Displayed values of zero may 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 March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	26,278	26,100	0.7%	663	791	24,517	24,248	316	315	783	746
Connecticut	8,935	9,276	-3.7%	20	NM	8,696	9,048	97	99	123	118
Maine	2,901	3,301	-12.1%	0	NM	2,265	2,680	47	50	589	572
Massachusetts	8,625	7,265	18.7%	120	134	8,305	6,949	137	134	64	48
New Hampshire	4,146	4,277	-3.1%	269	347	3,848	3,908	21	15	8	NM
Rhode Island	1,132	1,345	-15.8%	2	3	1,116	1,325	13	NM	0	0
Vermont	540	636	-15.1%	252	296	287	339	1	NM	0	0
Middle Atlantic	95,994	103,642	-7.4%	8,333	8,347	85,987	93,524	532	581	1,142	1,191
New Jersey	16,527	19,362	-14.6%	-2	-5	16,178	19,012	158	169	193	185
New York	30,494	32,479	-6.1%	8,303	8,328	21,677	23,573	278	318	237	261
Pennsylvania	48,972	51,801	-5.5%	32	NM	48,132	50,939	96	94	712	745
East North Central	141,860	145,085	-2.2%	59,735	61,853	78,853	80,165	468	481	2,804	2,586
Illinois	44,286	45,639	-3.0%	1,313	1,100	42,149	43,768	106	103	718	668
Indiana	25,187	25,906	-2.8%	21,380	21,019	2,621	3,983	58	62	1,128	842
Michigan	27,161	28,992	-6.3%	19,410	20,396	7,202	7,965	206	239	342	392
Ohio	29,870	28,649	4.3%	5,585	6,786	24,030	21,600	66	34	188	228
Wisconsin	15,356	15,899	-3.4%	12,047	12,552	2,849	2,849	32	42	428	456
West North Central	84,955	81,711	4.0%	68,818	67,812	14,957	12,646	144	171	1,035	1,082
Iowa	13,386	13,813	-3.1%	9,593	9,791	3,298	3,409	48	65	447	548
Kansas	12,602	11,601	8.6%	8,217	8,026	4,372	3,558	0	0	13	NM
Minnesota	15,324	14,767	3.8%	11,910	11,687	2,929	2,680	50	57	434	344
Missouri	21,005	20,110	4.5%	20,265	19,429	685	625	41	44	14	NM
Nebraska	9,314	9,568	-2.7%	7,809	8,549	1,409	908	5	5	91	106
North Dakota	10,234	9,285	10.2%	8,491	8,286	1,708	944	0	NM	35	55
South Dakota	3,090	2,567	20.4%	2,534	2,044	557	523	NM	NM	0	0
South Atlantic	181,636	191,390	-5.1%	153,577	160,652	22,950	25,857	311	345	4,799	4,536
Delaware	1,349	1,648	-18.1%	NM	NM	1,004	1,387	2	NM	341	249
District of Columbia	24	NM	NM	0	0	14	0	10	NM	0	0
Florida	50,647	52,163	-2.9%	47,076	47,596	2,253	3,286	21	24	1,297	1,257
Georgia	28,571	30,152	-5.2%	24,102	26,363	3,165	2,540	NM	4	1,303	1,245
Maryland	7,321	8,652	-15.4%	2	5	7,120	8,456	122	130	77	61
North Carolina	30,357	31,956	-5.0%	27,290	29,376	2,578	2,089	60	71	428	420
South Carolina	22,375	24,327	-8.0%	21,350	22,991	523	869	0	NM	501	465
Virginia	22,936	23,317	-1.6%	19,439	19,248	2,831	3,351	94	98	572	620
West Virginia	18,056	19,160	-5.8%	14,314	15,064	3,463	3,878	0	0	279	219
East South Central	82,987	89,348	-7.1%	72,131	75,978	8,653	11,053	43	39	2,161	2,278
Alabama	31,690	35,411	-10.5%	23,890	25,326	6,786	9,016	0	0	1,013	1,068
Kentucky	18,067	20,261	-10.8%	17,839	20,021	83	78	0	0	146	163
Mississippi	13,309	15,609	-14.7%	11,106	13,198	1,734	1,909	3	NM	466	499
Tennessee	19,921	18,068	10.3%	19,295	17,433	50	50	40	37	535	548
West South Central	151,451	157,463	-3.8%	46,642	52,163	86,295	85,474	233	224	18,282	19,603
Arkansas	13,512	13,979	-3.3%	10,483	10,557	2,595	2,961	2	NM	432	459
Louisiana	22,215	25,678	-13.5%	12,497	14,900	2,538	2,656	45	43	7,135	8,079
Oklahoma	16,689	17,530	-4.8%	8,128	9,862	8,344	7,445	0	NM	216	222
Texas	99,036	100,277	-1.2%	15,534	16,844	72,817	72,413	187	178	10,498	10,844
Mountain	84,277	84,961	-0.8%	66,901	66,415	16,494	17,633	134	108	748	806
Arizona	21,845	23,436	-6.8%	20,198	20,665	1,611	2,741	36	NM	0	0
Colorado	13,480	13,246	1.8%	10,248	9,914	3,206	3,311	6	NM	20	NM
Idaho	4,272	4,188	2.0%	2,926	2,646	1,188	1,381	13	NM	145	159
Montana	7,554	6,786	11.3%	3,226	2,297	4,317	4,482	0	0	10	7
Nevada	8,395	8,997	-6.7%	5,821	6,739	2,495	2,150	29	28	51	80
New Mexico	8,615	7,622	13.0%	6,526	5,385	2,061	2,205	27	NM	1	NM
Utah	8,544	8,840	-3.4%	7,465	8,224	894	433	22	NM	162	164
Wyoming	11,573	11,846	-2.3%	10,491	10,544	722	930	0	0	361	372
Pacific Contiguous	94,289	87,206	8.1%	63,012	55,749	26,704	27,041	714	650	3,860	3,767
California	48,279	42,699	13.1%	23,055	17,991	21,224	20,848	685	619	3,316	3,241
Oregon	15,606	16,253	-4.0%	12,512	12,431	2,921	3,666	19	20	155	137
Washington	30,404	28,253	7.6%	27,445	25,326	2,559	2,527	10	NM	389	390
Pacific Noncontiguous	3,691	3,755	-1.7%	2,555	2,582	884	910	142	132	111	131
Alaska	1,351	1,484	-9.0%	1,221	1,342	46	65	51	43	33	33
Hawaii	2,340	2,271	3.0%	1,334	1,240	838	845	91	89	78	98
U.S. Total	947,419	970,662	-2.4%	542,367	552,341	366,293	378,551	3,037	3,045	35,724	36,727

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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 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	512	133	286.2%	11	4	496	127	0	0	NM	NM
Connecticut	41	-3	NM	0	0	41	-3	0	0	0	0
Maine	NM	6	NM	0	0	7	5	0	0	NM	1
Massachusetts	449	126	257.5%	0	0	449	124	0	0	0	NM
New Hampshire	11	4	217.9%	11	4	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	4,461	2,513	77.5%	0	0	4,407	2,450	0	0	54	63
New Jersey	117	90	30.3%	0	0	117	90	0	0	0	0
New York	84	43	95.5%	0	0	53	19	0	0	31	24
Pennsylvania	4,259	2,379	79.0%	0	0	4,236	2,340	0	0	23	39
East North Central	22,665	17,179	31.9%	13,130	11,296	9,321	5,675	NM	13	206	196
Illinois	4,641	3,527	31.6%	405	293	4,079	3,108	NM	3	152	123
Indiana	5,438	5,190	4.8%	5,298	4,795	137	391	2	4	0	NM
Michigan	3,398	2,881	17.9%	3,350	2,833	40	33	0	6	NM	8
Ohio	6,704	3,767	77.9%	1,633	1,607	5,066	2,142	0	0	NM	18
Wisconsin	2,485	1,814	36.9%	2,443	1,769	0	0	0	0	42	46
West North Central	13,478	11,770	14.5%	13,269	11,509	0	NM	11	16	198	244
Iowa	1,326	1,420	-6.6%	1,203	1,257	0	0	8	9	115	153
Kansas	1,290	1,211	6.5%	1,290	1,211	0	0	0	0	0	0
Minnesota	1,673	1,565	6.9%	1,616	1,517	0	0	0	NM	57	48
Missouri	5,305	4,207	26.1%	5,302	4,197	0	NM	3	7	0	NM
Nebraska	1,568	1,365	14.8%	1,547	1,332	0	0	0	0	21	33
North Dakota	2,135	1,872	14.1%	2,130	1,864	0	0	0	0	NM	8
South Dakota	181	130	39.1%	181	130	0	0	0	0	0	0
South Atlantic	16,102	13,998	15.0%	14,920	12,114	1,105	1,771	7	6	70	107
Delaware	28	0	--	0	0	28	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,125	2,016	55.0%	3,113	1,976	0	26	0	0	NM	NM
Georgia	2,353	1,908	23.3%	2,339	1,890	0	0	0	0	NM	18
Maryland	353	1,073	-67.1%	0	0	345	1,066	0	0	7	7
North Carolina	2,859	1,121	155.1%	2,828	1,098	9	NM	5	5	18	NM
South Carolina	1,259	1,600	-21.3%	1,258	1,588	0	0	0	0	2	12
Virginia	901	1,413	-36.3%	830	1,378	51	7	2	NM	18	27
West Virginia	5,225	4,867	7.4%	4,553	4,183	672	669	0	0	0	14
East South Central	8,929	8,688	2.8%	8,578	8,331	290	261	0	0	62	96
Alabama	2,472	2,371	4.3%	2,467	2,362	0	0	0	0	NM	9
Kentucky	4,657	4,738	-1.7%	4,657	4,738	0	0	0	0	0	0
Mississippi	367	275	33.6%	78	14	290	261	0	0	0	0
Tennessee	1,433	1,304	9.9%	1,376	1,216	0	0	0	0	57	88
West South Central	11,459	7,408	54.7%	5,709	4,535	5,719	2,838	0	0	31	35
Arkansas	1,242	1,237	0.4%	1,221	870	17	363	0	0	4	4
Louisiana	616	661	-6.8%	169	626	446	35	0	0	0	0
Oklahoma	1,295	1,008	28.5%	1,185	876	83	101	0	0	27	30
Texas	8,307	4,503	84.5%	3,134	2,163	5,173	2,340	0	0	0	0
Mountain	11,847	10,234	15.8%	10,718	9,083	1,098	1,087	0	0	31	63
Arizona	2,112	1,614	30.8%	2,112	1,614	0	0	0	0	0	0
Colorado	2,399	2,132	12.6%	2,398	2,127	0	NM	0	0	1	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	924	964	-4.1%	27	NM	897	951	0	0	0	NM
Nevada	131	89	47.7%	25	26	106	63	0	0	0	0
New Mexico	1,841	1,108	66.2%	1,841	1,108	0	0	0	0	0	0
Utah	1,464	1,515	-3.3%	1,433	1,466	32	NM	0	0	0	26
Wyoming	2,970	2,807	5.8%	2,882	2,730	63	NM	0	0	25	31
Pacific Contiguous	28	31	-11.1%	0	0	0	0	0	0	28	31
California	27	28	-4.5%	0	0	0	0	0	0	27	28
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	3	-82.9%	0	0	0	0	0	0	0	3
Pacific Noncontiguous	168	184	-8.8%	NM	29	136	144	NM	9	0	NM
Alaska	NM	54	NM	NM	29	NM	16	NM	9	0	0
Hawaii	128	131	-1.7%	0	0	128	129	0	0	0	NM
U.S. Total	89,648	72,138	24.3%	66,356	56,901	22,573	14,354	35	44	684	839

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	1,245	1,022	21.9%	101	148	1,133	866	0	0	NM	8
Connecticut	78	55	42.5%	0	0	78	55	0	0	0	0
Maine	34	22	55.3%	0	0	23	19	0	0	NM	3
Massachusetts	1,033	797	29.5%	0	0	1,033	792	0	0	0	NM
New Hampshire	101	148	-31.6%	101	148	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,575	13,723	-8.4%	0	0	12,412	13,528	0	0	163	195
New Jersey	335	331	1.3%	0	0	335	331	0	0	0	0
New York	339	418	-19.0%	0	0	255	344	0	0	83	74
Pennsylvania	11,901	12,974	-8.3%	0	0	11,822	12,853	0	0	79	121
East North Central	70,333	64,687	8.7%	41,381	39,846	28,327	24,189	17	36	608	616
Illinois	14,499	13,369	8.5%	1,164	808	12,873	12,168	NM	11	450	381
Indiana	18,267	17,757	2.9%	17,587	16,428	676	1,319	4	10	0	NM
Michigan	10,175	10,656	-4.5%	10,042	10,503	116	104	0	15	NM	34
Ohio	18,502	15,403	20.1%	3,827	4,747	14,662	10,597	0	0	NM	59
Wisconsin	8,889	7,501	18.5%	8,761	7,359	0	0	0	0	128	142
West North Central	45,968	44,659	2.9%	45,270	43,863	1	NM	40	44	658	745
Iowa	5,457	5,922	-7.8%	5,065	5,433	0	0	25	28	367	461
Kansas	4,861	4,930	-1.4%	4,861	4,930	0	0	0	0	0	0
Minnesota	6,105	5,858	4.2%	5,924	5,706	0	0	1	NM	180	151
Missouri	16,760	15,402	8.8%	16,745	15,375	1	NM	14	16	0	NM
Nebraska	5,421	5,271	2.8%	5,330	5,167	0	0	0	0	91	104
North Dakota	6,822	6,730	1.4%	6,803	6,705	0	0	0	0	19	24
South Dakota	542	546	-0.7%	542	546	0	0	0	0	0	0
South Atlantic	48,629	53,482	-9.1%	43,663	46,253	4,703	6,869	21	25	242	335
Delaware	57	210	-73.1%	0	0	57	210	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,193	6,880	33.6%	9,148	6,807	0	26	0	0	44	48
Georgia	6,369	7,633	-16.6%	6,311	7,577	0	0	0	0	58	55
Maryland	1,572	3,303	-52.4%	0	0	1,550	3,284	0	0	22	19
North Carolina	7,338	7,638	-3.9%	7,234	7,551	36	NM	16	21	51	47
South Carolina	4,163	5,222	-20.3%	4,155	5,184	0	0	0	0	7	38
Virginia	2,941	4,531	-35.1%	2,753	4,297	124	149	5	NM	59	81
West Virginia	16,997	18,064	-5.9%	14,061	14,836	2,936	3,181	0	0	0	47
East South Central	29,952	31,594	-5.2%	29,111	30,545	644	773	0	0	197	276
Alabama	7,530	7,140	5.5%	7,511	7,113	0	0	0	0	NM	26
Kentucky	15,665	16,807	-6.8%	15,665	16,807	0	0	0	0	0	0
Mississippi	1,153	1,314	-12.2%	509	541	644	773	0	0	0	0
Tennessee	5,604	6,334	-11.5%	5,426	6,084	0	0	0	0	178	250
West South Central	41,486	30,455	36.2%	21,425	16,476	19,968	13,867	0	0	93	112
Arkansas	6,183	4,742	30.4%	5,598	3,605	571	1,121	0	0	13	16
Louisiana	3,018	2,627	14.9%	1,706	2,035	1,312	592	0	0	0	0
Oklahoma	4,066	3,857	5.4%	3,690	3,291	297	469	0	0	79	96
Texas	28,219	19,230	46.7%	10,431	7,545	17,788	11,685	0	0	0	0
Mountain	40,411	37,436	7.9%	36,214	33,211	4,098	4,079	0	0	99	145
Arizona	7,436	6,186	20.2%	7,436	6,186	0	0	0	0	0	0
Colorado	7,619	7,049	8.1%	7,615	7,033	0	15	0	0	4	NM
Idaho	15	19	-21.2%	0	0	0	0	0	0	15	19
Montana	3,650	3,657	-0.2%	78	NM	3,570	3,607	0	0	2	NM
Nevada	483	396	21.9%	243	202	240	195	0	0	0	0
New Mexico	5,232	3,983	31.4%	5,232	3,983	0	0	0	0	0	0
Utah	5,990	6,200	-3.4%	5,885	6,088	105	NM	0	0	0	26
Wyoming	9,986	9,946	0.4%	9,725	9,672	183	175	0	0	78	98
Pacific Contiguous	1,448	774	87.1%	554	308	810	372	0	0	85	93
California	78	84	-6.7%	0	0	0	0	0	0	78	84
Oregon	554	308	79.6%	554	308	0	0	0	0	0	0
Washington	816	381	113.9%	0	0	810	372	0	0	6	9
Pacific Noncontiguous	418	576	-27.4%	71	116	319	426	28	29	0	NM
Alaska	131	195	-32.8%	71	116	32	49	28	29	0	0
Hawaii	287	381	-24.6%	0	0	287	377	0	0	0	NM
U.S. Total	292,465	278,408	5.0%	217,789	210,767	72,416	64,975	106	134	2,153	2,531

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	NM	NM	NM	NM	3	NM	NM	5	NM	2	NM
Connecticut	5	NM	NM	1	NM	NM	NM	NM	NM	1	NM
Maine	2	NM	NM	0	NM	0	NM	0	NM	NM	NM
Massachusetts	NM	NM	NM	NM	1	NM	NM	2	NM	0	NM
New Hampshire	3	NM	NM	1	NM	NM	NM	2	NM	0	NM
Rhode Island	NM	3	NM	1	1	NM	NM	1	NM	0	0
Vermont	0	NM	NM	0	NM	0	0	0	NM	0	0
Middle Atlantic	NM	41	NM	NM	NM	NM	31	NM	NM	5	5
New Jersey	NM	9	NM	NM	NM	NM	8	0	NM	0	NM
New York	NM	NM	NM	NM	NM	NM	NM	NM	NM	5	5
Pennsylvania	18	18	-5.3%	0	NM	17	18	0	NM	NM	NM
East North Central	34	45	-24.3%	18	28	14	16	0	NM	1	1
Illinois	5	6	-17.1%	0	NM	5	5	0	0	0	0
Indiana	6	11	-43.0%	6	10	0	0	0	NM	1	1
Michigan	NM	9	NM	NM	9	0	0	0	NM	0	NM
Ohio	15	17	-7.2%	6	6	10	10	0	NM	0	NM
Wisconsin	NM	2	NM	NM	2	0	0	0	NM	NM	NM
West North Central	24	16	48.6%	24	16	0	NM	0	NM	0	NM
Iowa	NM	4	NM	NM	4	NM	NM	0	NM	0	NM
Kansas	3	1	96.8%	3	1	0	0	0	0	0	0
Minnesota	NM	1	NM	NM	1	0	NM	0	NM	0	NM
Missouri	5	6	-5.9%	5	6	0	NM	0	NM	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	3	31.8%	4	3	0	0	0	NM	0	NM
South Dakota	NM	0	NM	NM	0	0	NM	NM	NM	0	0
South Atlantic	158	101	55.8%	132	60	19	35	2	NM	5	6
Delaware	NM	NM	NM	0	NM	NM	NM	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	69	30	132.6%	68	29	NM	NM	0	0	NM	NM
Georgia	10	8	29.1%	7	5	NM	NM	0	NM	NM	2
Maryland	7	12	-40.2%	NM	NM	7	11	0	NM	0	NM
North Carolina	28	12	127.2%	22	10	6	2	0	NM	NM	NM
South Carolina	NM	4	NM	NM	2	0	NM	0	NM	2	2
Virginia	NM	30	NM	NM	5	3	25	2	NM	NM	NM
West Virginia	5	8	-35.6%	5	8	0	0	0	0	0	0
East South Central	15	17	-9.5%	14	16	NM	NM	0	NM	NM	NM
Alabama	4	5	-30.7%	3	5	NM	NM	0	0	NM	NM
Kentucky	7	8	-11.2%	7	8	0	0	0	0	0	0
Mississippi	1	0	75.8%	1	0	0	0	0	0	0	0
Tennessee	3	3	26.9%	3	3	NM	NM	0	NM	0	NM
West South Central	9	14	-33.7%	NM	12	5	1	0	NM	NM	NM
Arkansas	NM	3	NM	NM	2	0	0	0	0	NM	NM
Louisiana	NM	3	NM	NM	3	0	0	0	0	0	0
Oklahoma	1	2	-35.0%	1	2	0	0	0	NM	0	NM
Texas	7	6	18.2%	NM	5	5	1	0	NM	0	NM
Mountain	16	19	-12.8%	14	18	3	1	0	NM	0	NM
Arizona	2	9	-71.7%	2	9	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	2	1	262.0%	NM	NM	2	1	0	0	0	0
Nevada	0	0	6.3%	0	0	0	0	0	0	0	0
New Mexico	NM	5	NM	NM	5	0	0	0	0	0	NM
Utah	4	2	116.8%	4	2	0	NM	0	0	0	NM
Wyoming	2	2	41.3%	2	2	0	0	0	0	0	NM
Pacific Contiguous	NM	4	NM	NM	3	0	NM	0	NM	NM	NM
California	NM	3	NM	NM	3	0	NM	0	NM	0	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	NM	NM	NM	NM	NM	0	NM	0	NM	NM	NM
Pacific Noncontiguous	640	556	15.0%	543	425	76	120	1	NM	20	11
Alaska	90	60	50.9%	84	56	0	0	1	NM	5	3
Hawaii	550	497	10.7%	458	369	76	120	0	0	15	NM
U.S. Total	971	820	18.4%	761	584	162	205	NM	NM	36	27

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	105	169	-37.8%	10	15	73	134	17	13	5	NM
Connecticut	18	10	70.4%	2	2	14	6	NM	NM	1	NM
Maine	18	81	-78.2%	0	NM	13	75	1	NM	NM	NM
Massachusetts	54	61	-10.5%	NM	8	44	47	8	NM	0	NM
New Hampshire	9	5	90.3%	3	2	NM	NM	5	NM	0	NM
Rhode Island	NM	11	NM	2	3	NM	6	2	NM	0	0
Vermont	1	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	208	430	-51.6%	54	142	131	261	NM	10	13	17
New Jersey	NM	54	NM	NM	NM	NM	52	0	NM	0	NM
New York	122	309	-60.5%	53	141	NM	146	NM	NM	13	14
Pennsylvania	60	67	-10.1%	0	NM	59	64	1	NM	NM	3
East North Central	106	139	-23.8%	63	87	38	46	1	NM	4	4
Illinois	14	22	-36.4%	1	2	13	20	0	1	0	0
Indiana	23	33	-29.4%	20	30	0	NM	0	NM	3	3
Michigan	18	28	-36.8%	16	27	0	0	0	NM	1	0
Ohio	43	49	-11.8%	17	23	25	25	0	NM	1	NM
Wisconsin	NM	8	NM	NM	6	0	2	0	NM	NM	NM
West North Central	76	55	39.1%	75	53	0	1	0	NM	0	NM
Iowa	21	17	29.3%	21	16	NM	NM	0	NM	0	NM
Kansas	10	6	58.6%	10	6	0	0	0	0	0	0
Minnesota	NM	4	NM	NM	3	0	1	0	NM	0	NM
Missouri	15	19	-18.4%	15	19	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	15	8	93.9%	15	8	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	498	688	-27.6%	387	446	91	214	6	NM	14	26
Delaware	6	43	-84.9%	0	NM	6	42	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	139	78	78.8%	136	71	1	NM	0	0	NM	5
Georgia	24	50	-51.8%	11	18	7	20	1	1	NM	11
Maryland	24	75	-68.2%	0	3	23	71	0	NM	0	NM
North Carolina	110	113	-2.8%	93	78	15	33	0	NM	NM	NM
South Carolina	38	50	-25.0%	34	44	0	NM	0	NM	3	6
Virginia	125	254	-50.8%	80	207	38	46	5	NM	NM	NM
West Virginia	32	25	30.2%	32	25	0	0	0	0	0	0
East South Central	66	72	-7.5%	61	62	2	5	0	NM	NM	NM
Alabama	12	21	-41.0%	8	12	2	5	0	0	NM	NM
Kentucky	28	25	12.9%	28	25	0	0	0	0	0	0
Mississippi	3	6	-43.1%	3	5	0	0	0	0	0	0
Tennessee	23	20	11.6%	22	20	0	NM	0	NM	0	NM
West South Central	39	38	0.9%	17	30	21	7	0	NM	NM	NM
Arkansas	13	10	28.5%	NM	9	11	1	0	0	NM	NM
Louisiana	NM	7	NM	NM	5	0	2	0	0	0	0
Oklahoma	4	5	-13.9%	4	4	0	0	0	NM	0	0
Texas	17	16	7.9%	7	11	10	4	0	NM	0	NM
Mountain	58	50	17.3%	52	46	6	3	0	NM	0	NM
Arizona	15	13	18.1%	15	13	0	0	0	NM	0	0
Colorado	NM	3	NM	NM	3	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	5	3	81.6%	NM	NM	5	3	0	0	0	0
Nevada	1	2	-59.1%	0	1	1	0	0	0	0	0
New Mexico	14	16	-16.2%	14	16	0	0	0	0	0	NM
Utah	10	5	115.6%	10	5	0	NM	0	0	0	NM
Wyoming	11	8	33.0%	11	8	0	0	0	0	0	NM
Pacific Contiguous	25	13	97.1%	13	9	4	1	0	NM	8	2
California	15	9	59.9%	NM	8	0	NM	0	NM	6	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	8	3	121.1%	NM	NM	3	1	0	NM	NM	2
Pacific Noncontiguous	1,880	1,746	7.7%	1,528	1,398	286	297	3	2	63	48
Alaska	275	196	40.3%	259	184	0	0	3	1	13	10
Hawaii	1,605	1,550	3.6%	1,269	1,214	286	297	0	1	50	38
U.S. Total	3,063	3,400	-9.9%	2,260	2,289	651	970	39	29	112	113

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	7	NM	NM	0	0	0	0	0	0	7	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	154	212	-27.4%	56	94	NM	98	0	0	11	20
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	45	-100.0%	0	45	0	0	0	0	0	0
Michigan	63	58	7.8%	52	45	0	0	0	0	11	NM
Ohio	NM	99	NM	0	0	NM	98	0	0	0	NM
Wisconsin	4	9	-57.7%	4	4	0	0	0	0	0	6
West North Central	9	NM	NM	0	0	0	0	1	1	8	NM
Iowa	9	NM	NM	0	0	0	0	1	1	8	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	NM	221	NM	0	213	0	0	0	0	NM	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	0	213	-99.9%	0	213	0	0	0	0	0	0
Georgia	NM	8	NM	0	0	0	0	0	0	NM	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	70	109	-35.7%	70	109	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	70	109	-35.7%	70	109	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	443	336	31.9%	409	308	0	0	0	0	34	28
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	434	327	33.0%	409	308	0	0	0	0	25	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	9	-5.3%	0	0	0	0	0	0	9	9
Mountain	35	40	-12.4%	0	0	35	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	35	40	-12.4%	0	0	35	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	744	945	-21.2%	535	724	122	138	1	1	86	82

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	62	60	4.3%	0	0	0	0	0	0	62	60
New Jersey	21	NM	NM	0	0	0	0	0	0	21	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	41	42	-0.8%	0	0	0	0	0	0	41	42
East North Central	474	722	-34.4%	196	503	250	161	0	0	28	58
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	394	-100.0%	0	394	0	0	0	0	0	0
Michigan	213	139	52.9%	185	101	0	3	0	0	28	35
Ohio	250	162	54.2%	0	0	250	158	0	0	0	NM
Wisconsin	11	26	-58.6%	11	8	0	0	0	0	0	19
West North Central	17	NM	NM	0	0	0	0	3	3	15	NM
Iowa	17	NM	NM	0	0	0	0	3	3	15	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	241	541	-55.4%	198	519	0	0	0	0	43	22
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	198	519	-61.9%	198	519	0	0	0	0	0	0
Georgia	43	22	94.0%	0	0	0	0	0	0	43	22
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	202	247	-18.4%	202	247	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	202	247	-18.4%	202	247	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	1,294	1,095	18.1%	1,222	1,020	0	0	0	0	72	75
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,269	1,063	19.4%	1,222	1,020	0	0	0	0	47	43
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	25	33	-25.0%	0	0	0	0	0	0	25	33
Mountain	106	118	-10.4%	0	0	106	118	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	106	118	-10.4%	0	0	106	118	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	2,396	2,803	-14.5%	1,818	2,289	356	279	3	3	220	231

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	3,922	3,621	8.3%	NM	16	3,716	3,426	80	85	102	93
Connecticut	1,197	1,322	-9.5%	4	0	1,118	1,250	33	33	42	39
Maine	165	127	29.8%	0	0	NM	86	2	NM	35	39
Massachusetts	1,936	1,455	33.0%	NM	16	1,854	1,382	39	44	22	NM
New Hampshire	206	106	94.8%	0	0	201	102	2	NM	3	NM
Rhode Island	417	610	-31.6%	0	0	414	606	3	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	11,372	12,369	-8.1%	848	746	10,257	11,361	93	96	174	166
New Jersey	2,775	3,346	-17.1%	10	NM	2,712	3,293	19	NM	34	29
New York	4,102	3,955	3.7%	838	739	3,172	3,115	60	68	32	32
Pennsylvania	4,495	5,068	-11.3%	0	NM	4,374	4,952	14	NM	108	105
East North Central	8,454	10,088	-16.2%	3,745	4,437	4,330	5,361	114	117	264	173
Illinois	1,173	1,544	-24.0%	NM	190	997	1,278	30	29	58	46
Indiana	1,742	1,785	-2.4%	1,354	1,399	268	331	11	15	109	40
Michigan	2,310	2,353	-1.8%	687	662	1,527	1,587	48	52	49	51
Ohio	2,167	2,581	-16.1%	697	525	1,433	2,043	19	NM	17	NM
Wisconsin	1,061	1,825	-41.9%	919	1,660	105	122	5	NM	32	33
West North Central	1,484	1,551	-4.3%	1,235	1,299	191	180	22	28	36	44
Iowa	184	232	-21.0%	166	206	NM	0	6	NM	11	NM
Kansas	150	104	44.3%	144	97	0	0	0	0	6	NM
Minnesota	568	732	-22.4%	473	598	74	109	7	NM	14	NM
Missouri	349	327	7.0%	219	246	NM	71	8	7	5	NM
Nebraska	NM	17	NM	NM	16	0	0	0	NM	0	1
North Dakota	NM	65	NM	NM	62	0	0	0	0	1	NM
South Dakota	NM	74	NM	NM	74	0	0	0	0	0	0
South Atlantic	25,290	24,800	2.0%	20,955	20,229	3,895	4,247	48	52	392	271
Delaware	506	588	-13.9%	0	NM	424	511	0	0	83	74
District of Columbia	4	NM	NM	0	0	0	0	4	NM	0	0
Florida	11,865	11,893	-0.2%	11,311	10,826	438	978	2	NM	114	85
Georgia	3,812	4,108	-7.2%	2,755	3,251	991	815	0	0	66	43
Maryland	641	465	37.7%	0	0	593	418	40	40	8	NM
North Carolina	3,403	3,668	-7.2%	2,968	3,333	426	318	1	1	8	NM
South Carolina	1,126	1,067	5.5%	884	560	231	498	0	NM	11	8
Virginia	3,848	2,889	33.2%	3,013	2,251	773	600	1	NM	61	37
West Virginia	84	115	-27.0%	23	5	NM	109	0	0	41	1
East South Central	9,840	9,730	1.1%	6,451	6,143	3,192	3,409	14	NM	183	165
Alabama	4,150	4,333	-4.2%	1,299	1,266	2,769	2,977	0	0	83	90
Kentucky	524	752	-30.4%	444	679	57	52	0	0	23	21
Mississippi	4,025	3,751	7.3%	3,624	3,336	366	380	0	NM	34	35
Tennessee	1,141	893	27.8%	1,084	861	0	0	14	NM	43	20
West South Central	21,621	27,664	-21.8%	5,585	8,447	10,801	13,397	75	75	5,160	5,744
Arkansas	1,282	1,627	-21.2%	251	633	1,005	968	0	NM	26	26
Louisiana	4,570	5,407	-15.5%	2,297	2,609	413	678	16	NM	1,845	2,106
Oklahoma	1,681	2,391	-29.7%	1,004	1,741	655	634	0	NM	22	NM
Texas	14,088	18,238	-22.8%	2,034	3,464	8,728	11,118	59	59	3,268	3,598
Mountain	4,671	6,774	-31.0%	3,821	5,335	690	1,291	36	NM	125	128
Arizona	900	1,856	-51.5%	763	1,279	125	570	11	NM	0	0
Colorado	742	993	-25.2%	604	855	136	137	0	0	2	NM
Idaho	225	251	-10.2%	131	125	84	118	4	0	7	8
Montana	36	51	-28.9%	NM	46	4	NM	0	0	1	0
Nevada	1,742	2,109	-17.4%	1,621	1,974	97	108	6	NM	18	NM
New Mexico	639	778	-17.9%	405	427	225	345	9	NM	0	0
Utah	326	673	-51.6%	257	620	18	NM	6	NM	44	41
Wyoming	61	64	-5.1%	NM	NM	0	NM	0	0	53	55
Pacific Contiguous	5,868	6,999	-16.2%	2,225	2,967	2,641	3,162	156	109	845	760
California	4,817	5,433	-11.3%	1,639	2,157	2,200	2,427	151	102	826	748
Oregon	469	1,016	-53.8%	243	454	213	554	NM	NM	10	NM
Washington	582	549	6.0%	343	356	228	181	2	NM	9	10
Pacific Noncontiguous	117	196	-40.5%	110	189	0	0	0	0	7	NM
Alaska	117	196	-40.5%	110	189	0	0	0	0	7	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	92,638	103,791	-10.7%	45,000	49,809	39,713	45,836	638	595	7,287	7,551

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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.B. Utility Scale Facility Net Generation from Natural Gas

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	11,284	11,110	1.6%	NM	24	10,699	10,563	229	239	302	283
Connecticut	3,939	4,313	-8.7%	12	0	3,709	4,099	96	98	122	116
Maine	442	831	-46.8%	0	0	325	706	7	NM	111	119
Massachusetts	5,392	4,109	31.2%	NM	24	5,177	3,928	112	117	62	40
New Hampshire	481	584	-17.6%	0	0	468	570	5	NM	8	NM
Rhode Island	1,030	1,272	-19.1%	0	0	1,021	1,260	9	NM	0	0
Vermont	1	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	31,375	35,481	-11.6%	2,361	2,428	28,302	32,268	257	288	455	497
New Jersey	6,502	9,313	-30.2%	17	NM	6,339	9,158	49	52	97	86
New York	11,479	11,601	-1.1%	2,343	2,411	8,899	8,890	171	205	65	95
Pennsylvania	13,394	14,567	-8.1%	1	NM	13,063	14,220	37	31	293	316
East North Central	21,962	28,004	-21.6%	9,136	12,299	11,720	14,846	361	350	745	509
Illinois	2,815	3,795	-25.8%	121	262	2,447	3,307	92	89	155	136
Indiana	4,606	5,023	-8.3%	3,564	3,982	692	870	43	43	307	129
Michigan	5,658	6,513	-13.1%	1,551	1,856	3,822	4,359	146	157	139	141
Ohio	6,307	8,085	-22.0%	1,626	1,942	4,572	6,100	62	30	47	NM
Wisconsin	2,576	4,588	-43.9%	2,274	4,257	187	210	18	31	97	91
West North Central	3,475	4,516	-23.1%	2,909	3,783	395	543	53	72	118	118
Iowa	444	719	-38.3%	377	643	NM	0	12	22	54	54
Kansas	332	186	78.4%	321	174	0	0	0	0	11	NM
Minnesota	1,454	2,227	-34.7%	1,236	1,879	152	278	27	34	38	37
Missouri	740	932	-20.5%	470	645	243	266	13	16	14	NM
Nebraska	162	35	357.3%	161	33	0	0	1	NM	0	2
North Dakota	152	204	-25.6%	151	196	0	0	0	0	1	NM
South Dakota	193	213	-9.6%	193	213	0	0	0	0	0	0
South Atlantic	70,204	72,461	-3.1%	59,212	60,413	9,756	11,037	139	149	1,098	863
Delaware	1,155	1,321	-12.6%	0	NM	919	1,111	0	0	236	203
District of Columbia	10	NM	NM	0	0	0	0	10	NM	0	0
Florida	32,133	34,625	-7.2%	30,683	32,058	1,103	2,244	7	NM	340	314
Georgia	11,923	12,107	-1.5%	9,130	9,740	2,626	2,232	0	0	167	136
Maryland	1,273	944	34.8%	0	0	1,133	805	116	120	23	19
North Carolina	9,655	10,446	-7.6%	8,434	9,425	1,194	975	3	3	25	43
South Carolina	3,193	3,308	-3.5%	2,758	2,558	402	729	0	NM	33	20
Virginia	10,674	9,533	12.0%	8,172	6,613	2,349	2,795	2	NM	151	124
West Virginia	187	163	15.0%	34	12	NM	145	0	0	123	5
East South Central	24,361	30,045	-18.9%	15,923	19,345	7,850	10,155	43	38	545	507
Alabama	10,822	13,286	-18.5%	3,877	4,060	6,685	8,949	0	0	259	277
Kentucky	916	1,940	-52.8%	772	1,805	78	73	0	0	66	62
Mississippi	10,075	12,265	-17.9%	8,887	11,024	1,085	1,133	3	NM	99	106
Tennessee	2,548	2,554	-0.2%	2,386	2,456	1	0	40	36	121	61
West South Central	60,286	80,693	-25.3%	14,560	24,113	29,740	39,589	215	200	15,771	16,792
Arkansas	2,557	3,627	-29.5%	500	1,756	1,976	1,785	0	NM	81	85
Louisiana	12,831	16,510	-22.3%	6,035	8,183	930	1,712	45	43	5,821	6,571
Oklahoma	5,151	7,609	-32.3%	3,286	5,384	1,807	2,179	0	NM	58	45
Texas	39,747	52,948	-24.9%	4,740	8,790	25,027	33,912	170	155	9,811	10,090
Mountain	15,733	20,915	-24.8%	12,560	16,118	2,701	4,339	103	75	368	382
Arizona	2,784	5,602	-50.3%	2,162	3,688	589	1,889	32	NM	0	0
Colorado	2,556	2,862	-10.7%	2,127	2,419	424	438	0	0	5	NM
Idaho	776	1,014	-23.4%	434	527	304	460	10	0	28	27
Montana	104	163	-35.9%	84	146	19	NM	0	0	2	0
Nevada	5,805	6,689	-13.2%	5,277	6,174	462	424	15	NM	51	80
New Mexico	2,078	2,407	-13.7%	1,190	1,292	861	1,084	26	NM	1	NM
Utah	1,441	1,987	-27.5%	1,261	1,846	43	NM	19	NM	117	99
Wyoming	190	190	-0.2%	NM	NM	0	NM	0	0	165	163
Pacific Contiguous	23,473	27,926	-15.9%	9,309	10,829	11,003	14,193	473	381	2,689	2,523
California	18,319	21,262	-13.8%	6,637	7,637	8,596	10,787	455	359	2,630	2,479
Oregon	2,820	3,846	-26.7%	1,162	1,518	1,622	2,300	12	NM	25	12
Washington	2,335	2,818	-17.1%	1,511	1,674	785	1,106	6	NM	33	31
Pacific Noncontiguous	389	617	-36.9%	368	595	0	0	2	0	19	21
Alaska	389	617	-36.9%	368	595	0	0	2	0	19	21
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	262,544	311,768	-15.8%	126,393	149,948	112,166	137,532	1,875	1,793	22,110	22,495

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	70	69	1.2%	0	0	0	0	0	0	70	69
New Jersey	20	NM	NM	0	0	0	0	0	0	20	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	50	48	5.8%	0	0	0	0	0	0	50	48
East North Central	536	450	19.2%	20	6	221	202	0	0	295	242
Illinois	12	26	-54.8%	0	0	0	0	0	0	12	26
Indiana	270	198	36.2%	NM	NM	0	0	0	0	266	196
Michigan	160	140	14.2%	16	4	144	136	0	0	0	0
Ohio	94	85	10.6%	0	0	77	66	0	0	17	19
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	5	NM	NM	0	0	0	0	0	0	5	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	5	NM	NM	0	0	0	0	0	0	5	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	41	17	144.4%	0	0	0	0	0	0	41	17
Delaware	38	15	158.9%	0	0	0	0	0	0	38	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	47.3%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	2	47.4%	0	0	0	0	0	0	3	2
East South Central	3	NM	NM	0	0	0	0	0	0	3	NM
Alabama	2	NM	NM	0	0	0	0	0	0	2	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-19.5%	0	0	0	0	0	0	1	1
West South Central	371	502	-26.2%	0	0	116	126	0	0	255	376
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	154	258	-40.2%	0	0	0	0	0	0	154	258
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	216	244	-11.4%	0	0	116	126	0	0	101	118
Mountain	35	39	-11.4%	0	0	1	1	0	0	33	38
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	1	21.5%	0	0	1	1	0	0	0	0
Nevada	0	0	-100.0%	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	0	0	0	0	NM
Wyoming	33	37	-11.4%	0	0	0	0	0	0	33	37
Pacific Contiguous	141	151	-6.4%	0	0	23	37	0	0	118	114
California	118	114	3.9%	0	0	0	0	0	0	118	114
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	23	37	-37.7%	0	0	23	37	0	0	0	0
Pacific Noncontiguous	5	NM	NM	0	0	0	0	0	0	5	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	NM	NM	0	0	0	0	0	0	5	NM
U.S. Total	1,206	1,241	-2.8%	20	6	362	367	0	0	825	868

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	192	202	-4.9%	0	0	0	0	0	0	192	202
New Jersey	57	80	-28.9%	0	0	0	0	0	0	57	80
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	135	122	10.8%	0	0	0	0	0	0	135	122
East North Central	1,510	1,437	5.1%	58	14	613	650	0	0	840	773
Illinois	48	99	-51.4%	0	0	0	4	0	0	48	95
Indiana	756	618	22.3%	11	NM	0	0	0	0	744	613
Michigan	454	414	9.5%	46	9	407	405	0	0	0	0
Ohio	253	306	-17.2%	0	0	206	241	0	0	47	65
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	12	NM	NM	0	0	0	0	0	0	12	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	12	NM	NM	0	0	0	0	0	0	12	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	111	50	122.9%	0	0	0	0	0	0	111	50
Delaware	102	43	136.2%	0	0	0	0	0	0	102	43
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	12.7%	0	0	0	0	0	0	1	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	8	5	37.2%	0	0	0	0	0	0	8	5
East South Central	9	12	-26.2%	0	0	0	0	0	0	9	12
Alabama	5	NM	NM	0	0	0	0	0	0	5	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3	3	-12.4%	0	0	0	0	0	0	3	3
West South Central	1,140	1,323	-13.8%	0	0	332	313	0	0	808	1,010
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	501	674	-25.6%	0	0	0	0	0	0	501	674
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	639	649	-1.6%	0	0	332	313	0	0	307	336
Mountain	110	117	-6.2%	0	0	4	5	0	0	106	113
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	4	1.8%	0	0	4	4	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	5	NM	NM	0	0	0	0	0	0	5	NM
Wyoming	101	111	-8.8%	0	0	0	0	0	0	101	111
Pacific Contiguous	377	503	-25.2%	0	0	82	102	0	0	294	401
California	294	401	-26.7%	0	0	0	0	0	0	294	401
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	82	102	-19.2%	0	0	82	102	0	0	0	0
Pacific Noncontiguous	12	13	-2.9%	0	0	0	0	0	0	12	13
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	12	13	-2.9%	0	0	0	0	0	0	12	13
U.S. Total	3,473	3,672	-5.4%	58	14	1,032	1,070	0	0	2,384	2,589

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	2,971	2,826	5.1%	0	0	2,971	2,826	0	0	0	0
Connecticut	1,549	1,554	-0.3%	0	0	1,549	1,554	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	496	498	-0.5%	0	0	496	498	0	0	0	0
New Hampshire	926	774	19.6%	0	0	926	774	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	13,042	13,059	-0.1%	0	0	13,042	13,059	0	0	0	0
New Jersey	3,079	3,114	-1.1%	0	0	3,079	3,114	0	0	0	0
New York	3,275	3,378	-3.1%	0	0	3,275	3,378	0	0	0	0
Pennsylvania	6,688	6,566	1.9%	0	0	6,688	6,566	0	0	0	0
East North Central	11,597	12,704	-8.7%	2,171	2,193	9,426	10,511	0	0	0	0
Illinois	7,578	7,941	-4.6%	0	0	7,578	7,941	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,581	2,800	-7.8%	2,171	2,193	410	607	0	0	0	0
Ohio	757	1,364	-44.5%	0	0	757	1,364	0	0	0	0
Wisconsin	680	600	13.5%	0	0	680	600	0	0	0	0
West North Central	4,129	4,493	-8.1%	3,672	4,039	457	454	0	0	0	0
Iowa	457	454	0.7%	0	0	457	454	0	0	0	0
Kansas	911	907	0.4%	911	907	0	0	0	0	0	0
Minnesota	1,296	1,293	0.2%	1,296	1,293	0	0	0	0	0	0
Missouri	871	879	-0.9%	871	879	0	0	0	0	0	0
Nebraska	595	960	-38.0%	595	960	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	15,798	15,598	1.3%	14,582	14,516	1,216	1,082	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,857	2,676	-30.6%	1,857	2,676	0	0	0	0	0	0
Georgia	2,494	2,290	8.9%	2,494	2,290	0	0	0	0	0	0
Maryland	1,216	1,082	12.4%	0	0	1,216	1,082	0	0	0	0
North Carolina	3,054	2,914	4.8%	3,054	2,914	0	0	0	0	0	0
South Carolina	4,421	4,510	-2.0%	4,421	4,510	0	0	0	0	0	0
Virginia	2,755	2,126	29.6%	2,755	2,126	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,728	5,442	23.6%	6,728	5,442	0	0	0	0	0	0
Alabama	2,987	3,013	-0.9%	2,987	3,013	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	995	4	NM	995	4	0	0	0	0	0	0
Tennessee	2,746	2,425	13.2%	2,746	2,425	0	0	0	0	0	0
West South Central	5,499	6,580	-16.4%	2,211	2,808	3,288	3,772	0	0	0	0
Arkansas	952	1,315	-27.6%	952	1,315	0	0	0	0	0	0
Louisiana	1,260	1,493	-15.6%	1,260	1,493	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,288	3,772	-12.8%	0	0	3,288	3,772	0	0	0	0
Mountain	2,969	3,008	-1.3%	2,969	3,008	0	0	0	0	0	0
Arizona	2,969	3,008	-1.3%	2,969	3,008	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,361	2,440	-3.2%	2,361	2,440	0	0	0	0	0	0
California	1,569	1,695	-7.4%	1,569	1,695	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	792	745	6.3%	792	745	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	65,093	66,149	-1.6%	34,693	34,445	30,400	31,704	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 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	8,549	8,330	2.6%	0	0	8,549	8,330	0	0	0	0
Connecticut	4,508	4,403	2.4%	0	0	4,508	4,403	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,346	1,409	-4.5%	0	0	1,346	1,409	0	0	0	0
New Hampshire	2,696	2,518	7.1%	0	0	2,696	2,518	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	39,943	41,091	-2.8%	0	0	39,943	41,091	0	0	0	0
New Jersey	9,017	9,027	-0.1%	0	0	9,017	9,027	0	0	0	0
New York	9,800	10,960	-10.6%	0	0	9,800	10,960	0	0	0	0
Pennsylvania	21,126	21,103	0.1%	0	0	21,126	21,103	0	0	0	0
East North Central	37,827	39,602	-4.5%	6,835	7,022	30,992	32,579	0	0	0	0
Illinois	23,400	24,598	-4.9%	0	0	23,400	24,598	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,398	8,801	-4.6%	6,835	7,022	1,563	1,779	0	0	0	0
Ohio	3,642	3,868	-5.8%	0	0	3,642	3,868	0	0	0	0
Wisconsin	2,387	2,335	2.2%	0	0	2,387	2,335	0	0	0	0
West North Central	12,084	12,575	-3.9%	10,758	11,243	1,327	1,332	0	0	0	0
Iowa	1,327	1,332	-0.4%	0	0	1,327	1,332	0	0	0	0
Kansas	2,648	2,663	-0.6%	2,648	2,663	0	0	0	0	0	0
Minnesota	3,773	3,090	22.1%	3,773	3,090	0	0	0	0	0	0
Missouri	2,607	2,665	-2.2%	2,607	2,665	0	0	0	0	0	0
Nebraska	1,731	2,825	-38.7%	1,731	2,825	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	50,111	50,727	-1.2%	46,712	47,463	3,399	3,264	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	6,676	8,010	-16.7%	6,676	8,010	0	0	0	0	0	0
Georgia	8,084	7,725	4.6%	8,084	7,725	0	0	0	0	0	0
Maryland	3,399	3,264	4.1%	0	0	3,399	3,264	0	0	0	0
North Carolina	10,240	10,115	1.2%	10,240	10,115	0	0	0	0	0	0
South Carolina	13,744	14,162	-3.0%	13,744	14,162	0	0	0	0	0	0
Virginia	7,968	7,450	6.9%	7,968	7,450	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	20,501	17,337	18.3%	20,501	17,337	0	0	0	0	0	0
Alabama	9,824	9,868	-0.5%	9,824	9,868	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,707	1,629	4.8%	1,707	1,629	0	0	0	0	0	0
Tennessee	8,970	5,841	53.6%	8,970	5,841	0	0	0	0	0	0
West South Central	17,488	18,477	-5.4%	6,953	7,463	10,535	11,014	0	0	0	0
Arkansas	3,424	3,806	-10.0%	3,424	3,806	0	0	0	0	0	0
Louisiana	3,529	3,657	-3.5%	3,529	3,657	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	10,535	11,014	-4.4%	0	0	10,535	11,014	0	0	0	0
Mountain	8,633	8,803	-1.9%	8,633	8,803	0	0	0	0	0	0
Arizona	8,633	8,803	-1.9%	8,633	8,803	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	7,130	7,369	-3.2%	7,130	7,369	0	0	0	0	0	0
California	4,741	4,968	-4.6%	4,741	4,968	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,389	2,401	-0.5%	2,389	2,401	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	202,267	204,312	-1.0%	107,521	106,700	94,745	97,611	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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	658	720	-8.6%	89	105	530	573	0	NM	39	42
Connecticut	29	31	-6.1%	2	NM	26	28	0	0	0	0
Maine	319	318	0.4%	0	0	282	277	0	0	38	41
Massachusetts	79	97	-18.0%	20	21	59	75	0	NM	1	NM
New Hampshire	121	162	-25.2%	30	40	91	122	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	109	112	-2.8%	38	42	71	70	0	0	0	0
Middle Atlantic	2,746	2,673	2.7%	2,136	1,989	602	678	1	NM	7	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,485	2,368	5.0%	2,122	1,983	356	379	1	NM	7	NM
Pennsylvania	258	303	-14.9%	14	NM	243	296	0	0	0	0
East North Central	493	476	3.5%	428	408	NM	50	0	NM	NM	NM
Illinois	14	14	-0.3%	NM	NM	7	8	0	NM	0	0
Indiana	36	30	19.4%	36	30	0	0	0	0	0	0
Michigan	157	157	0.1%	144	142	NM	NM	0	0	NM	NM
Ohio	44	41	7.6%	23	21	21	20	0	0	0	0
Wisconsin	242	235	3.2%	218	209	NM	NM	0	0	NM	NM
West North Central	1,321	901	46.6%	1,286	866	NM	NM	0	0	NM	NM
Iowa	NM	NM	NM	NM	NM	1	NM	0	0	0	0
Kansas	2	NM	NM	0	0	2	NM	0	0	0	0
Minnesota	NM	86	NM	NM	NM	NM	NM	0	0	NM	NM
Missouri	148	107	37.8%	148	107	0	0	0	0	0	0
Nebraska	164	167	-2.0%	164	167	0	0	0	0	0	0
North Dakota	244	151	61.5%	244	151	0	0	0	0	0	0
South Dakota	600	299	100.8%	600	299	0	0	0	0	0	0
South Atlantic	1,461	1,613	-9.4%	1,115	1,308	290	242	1	NM	55	61
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	23	23	2.4%	23	23	0	0	0	0	0	0
Georgia	280	317	-11.7%	278	314	NM	NM	0	0	2	NM
Maryland	242	197	23.4%	0	0	242	197	0	0	0	0
North Carolina	404	520	-22.3%	400	513	NM	NM	1	NM	NM	NM
South Carolina	251	259	-2.9%	246	252	NM	NM	0	NM	0	0
Virginia	109	155	-29.6%	103	146	6	NM	0	0	0	NM
West Virginia	151	143	5.5%	66	59	33	27	0	0	52	57
East South Central	2,247	2,162	3.9%	2,246	2,161	NM	NM	0	0	0	0
Alabama	916	1,069	-14.4%	916	1,069	0	0	0	0	0	0
Kentucky	416	315	32.1%	415	314	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	915	778	17.7%	915	778	0	0	0	0	0	0
West South Central	768	803	-4.3%	665	700	103	104	0	0	0	0
Arkansas	329	390	-15.6%	326	385	NM	NM	0	0	0	0
Louisiana	97	95	2.1%	0	0	97	95	0	0	0	0
Oklahoma	253	211	20.0%	253	211	0	0	0	0	0	0
Texas	89	107	-17.0%	86	104	3	NM	0	0	0	0
Mountain	3,372	2,930	15.1%	3,238	2,828	133	101	1	NM	0	0
Arizona	669	664	0.7%	669	664	0	0	0	0	0	0
Colorado	222	210	5.6%	199	189	NM	NM	1	NM	0	0
Idaho	1,012	935	8.2%	921	874	NM	62	0	0	0	0
Montana	1,095	804	36.2%	1,080	790	NM	NM	0	0	0	0
Nevada	145	173	-16.2%	141	171	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	NM	85	NM	NM	84	2	NM	0	0	0	0
Wyoming	110	41	170.0%	110	40	0	NM	0	0	0	0
Pacific Contiguous	16,934	14,583	16.1%	16,611	14,395	321	186	2	NM	0	0
California	4,481	2,790	60.6%	4,225	2,666	254	122	2	NM	0	0
Oregon	3,935	4,122	-4.5%	3,905	4,091	NM	NM	0	0	0	0
Washington	8,517	7,671	11.0%	8,480	7,638	NM	NM	0	0	0	0
Pacific Noncontiguous	198	163	21.5%	183	157	1	1	NM	0	NM	NM
Alaska	193	155	24.5%	183	155	0	0	NM	0	0	0
Hawaii	NM	NM	NM	0	NM	1	1	0	0	NM	NM
U.S. Total	30,198	27,025	11.7%	27,998	24,916	2,049	1,956	NM	NM	136	147

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	1,885	2,258	-16.5%	258	351	1,519	1,785	1	NM	107	120
Connecticut	83	116	-28.5%	5	NM	78	107	0	0	0	0
Maine	903	1,012	-10.8%	0	0	798	894	0	0	105	118
Massachusetts	231	311	-25.9%	58	81	169	227	1	NM	2	NM
New Hampshire	352	424	-16.9%	84	115	268	309	0	0	0	0
Rhode Island	1	NM	NM	0	0	1	NM	0	0	0	0
Vermont	316	393	-19.6%	111	146	205	247	0	0	0	0
Middle Atlantic	7,793	8,223	-5.2%	6,029	5,895	1,743	2,307	2	NM	19	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	7,044	7,186	-2.0%	5,998	5,872	1,025	1,293	2	NM	19	NM
Pennsylvania	742	1,026	-27.7%	31	NM	711	1,003	0	0	0	0
East North Central	1,434	1,315	9.0%	1,243	1,117	137	147	0	NM	54	NM
Illinois	38	43	-11.3%	17	NM	21	24	0	NM	0	0
Indiana	104	98	5.8%	104	98	0	0	0	0	0	0
Michigan	450	414	8.8%	416	378	NM	NM	0	0	NM	NM
Ohio	126	135	-6.3%	68	67	58	68	0	0	0	0
Wisconsin	716	626	14.4%	639	556	NM	NM	0	0	46	NM
West North Central	3,662	3,023	21.1%	3,559	2,931	65	59	0	0	38	NM
Iowa	278	245	13.7%	277	243	2	NM	0	0	0	0
Kansas	7	NM	NM	0	0	7	NM	0	0	0	0
Minnesota	259	228	13.5%	164	145	NM	NM	0	0	38	NM
Missouri	428	573	-25.3%	428	573	0	0	0	0	0	0
Nebraska	508	449	13.2%	508	449	0	0	0	0	0	0
North Dakota	654	482	35.6%	654	482	0	0	0	0	0	0
South Dakota	1,529	1,040	47.0%	1,529	1,040	0	0	0	0	0	0
South Atlantic	4,365	6,303	-30.7%	3,392	5,297	816	825	3	NM	154	175
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	66	78	-14.5%	66	78	0	0	0	0	0	0
Georgia	861	1,262	-31.8%	855	1,252	2	NM	0	0	4	NM
Maryland	674	667	1.0%	0	0	674	667	0	0	0	0
North Carolina	1,232	2,173	-43.3%	1,218	2,149	10	NM	2	NM	NM	NM
South Carolina	760	1,115	-31.9%	744	1,089	15	NM	0	NM	0	0
Virginia	342	569	-39.9%	322	539	19	NM	0	0	0	NM
West Virginia	430	439	-2.1%	187	190	96	87	0	0	148	162
East South Central	6,434	8,529	-24.6%	6,432	8,526	NM	NM	0	0	0	0
Alabama	2,670	4,274	-37.5%	2,670	4,274	0	0	0	0	0	0
Kentucky	1,142	1,101	3.8%	1,140	1,098	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2,622	3,155	-16.9%	2,622	3,155	0	0	0	0	0	0
West South Central	2,254	2,958	-23.8%	1,964	2,601	290	357	0	0	0	0
Arkansas	966	1,386	-30.3%	958	1,369	NM	NM	0	0	0	0
Louisiana	274	327	-16.3%	0	0	274	327	0	0	0	0
Oklahoma	732	806	-9.2%	732	806	0	0	0	0	0	0
Texas	283	439	-35.5%	275	426	8	NM	0	0	0	0
Mountain	9,020	7,505	20.2%	8,679	7,256	339	247	1	NM	0	0
Arizona	1,849	1,870	-1.1%	1,849	1,870	0	0	0	0	0	0
Colorado	549	567	-3.3%	493	512	NM	54	1	NM	0	0
Idaho	2,719	2,261	20.3%	2,488	2,116	231	144	0	0	0	0
Montana	3,049	2,071	47.2%	3,005	2,033	NM	NM	0	0	0	0
Nevada	290	360	-19.4%	284	354	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	245	219	11.6%	240	217	5	NM	0	0	0	0
Wyoming	274	115	137.6%	274	113	0	NM	0	0	0	0
Pacific Contiguous	45,139	36,050	25.2%	44,310	35,639	823	408	NM	NM	0	0
California	11,807	5,435	117.2%	11,154	5,188	647	243	NM	NM	0	0
Oregon	10,700	10,465	2.2%	10,617	10,388	83	77	0	0	0	0
Washington	22,633	20,149	12.3%	22,539	20,062	94	87	0	0	0	0
Pacific Noncontiguous	527	437	20.5%	499	421	4	1	NM	0	NM	NM
Alaska	506	415	21.9%	496	415	0	0	NM	0	0	0
Hawaii	NM	NM	NM	3	NM	4	1	0	0	NM	NM
U.S. Total	82,514	76,601	7.7%	76,365	70,033	5,738	6,139	NM	NM	387	413

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	1,053	939	12.2%	87	74	840	751	18	14	108	100
Connecticut	69	79	-12.1%	0	0	69	79	0	0	0	0
Maine	504	402	25.3%	0	0	387	295	8	7	108	100
Massachusetts	184	171	7.9%	7	7	171	160	6	3	0	NM
New Hampshire	178	191	-6.5%	28	22	147	166	3	2	0	0
Rhode Island	36	21	70.5%	0	0	35	20	1	NM	0	0
Vermont	82	76	8.2%	50	44	32	32	0	NM	0	0
Middle Atlantic	1,342	1,319	1.8%	9	9	1,198	1,180	61	63	75	67
New Jersey	180	163	10.2%	9	9	141	124	29	30	NM	NM
New York	604	589	2.5%	0	0	569	550	16	19	19	21
Pennsylvania	559	567	-1.5%	0	0	488	507	15	15	56	46
East North Central	3,030	2,776	9.2%	346	308	2,530	2,304	19	20	134	144
Illinois	1,263	1,146	10.2%	4	NM	1,259	1,143	NM	NM	0	0
Indiana	522	568	-8.1%	31	28	483	532	2	NM	6	6
Michigan	710	614	15.7%	165	165	484	379	11	12	51	58
Ohio	246	198	24.5%	NM	NM	213	165	1	NM	28	29
Wisconsin	288	250	15.1%	143	109	91	86	5	4	49	51
West North Central	7,399	5,888	25.7%	2,399	2,027	4,924	3,797	10	12	66	52
Iowa	2,211	1,881	17.5%	1,452	1,191	753	681	2	4	3	6
Kansas	1,885	1,430	31.8%	210	94	1,675	1,335	0	0	NM	NM
Minnesota	1,345	1,093	23.0%	291	275	988	772	NM	5	61	41
Missouri	186	130	42.3%	NM	NM	180	126	2	1	0	NM
Nebraska	515	352	46.2%	28	27	485	324	2	NM	0	0
North Dakota	959	715	34.1%	320	346	639	367	0	0	NM	NM
South Dakota	297	286	4.1%	94	93	204	193	0	0	0	0
South Atlantic	2,653	2,097	26.6%	302	187	1,438	1,045	35	46	878	820
Delaware	11	11	1.7%	NM	NM	9	9	1	NM	NM	NM
District of Columbia	5	0	--	0	0	5	0	0	0	0	0
Florida	510	394	29.4%	66	23	250	194	5	5	189	171
Georgia	584	425	37.4%	25	6	220	100	NM	NM	339	318
Maryland	113	114	-0.9%	NM	NM	100	100	NM	3	10	10
North Carolina	689	498	38.4%	34	24	561	375	16	16	78	83
South Carolina	224	188	19.5%	42	36	37	37	0	0	145	114
Virginia	349	333	4.9%	134	96	88	96	11	19	116	122
West Virginia	168	134	25.4%	0	0	168	134	0	0	0	0
East South Central	534	545	-2.0%	7	7	61	42	NM	NM	466	496
Alabama	273	279	-2.5%	0	0	38	21	0	0	235	258
Kentucky	34	42	-19.3%	7	7	1	NM	0	0	26	35
Mississippi	127	130	-2.5%	0	0	NM	NM	0	0	125	129
Tennessee	101	94	8.1%	0	0	21	19	NM	NM	80	74
West South Central	10,150	8,199	23.8%	196	158	9,529	7,603	8	9	417	428
Arkansas	116	133	-12.7%	NM	0	10	13	1	NM	105	119
Louisiana	216	212	1.8%	0	0	7	7	0	0	209	205
Oklahoma	2,527	2,018	25.2%	165	136	2,334	1,856	0	0	29	26
Texas	7,291	5,836	24.9%	31	22	7,178	5,727	8	8	75	78
Mountain	3,958	3,511	12.7%	340	326	3,575	3,132	13	13	30	40
Arizona	522	375	39.2%	56	40	464	334	NM	NM	0	0
Colorado	1,018	986	3.2%	32	11	984	973	NM	NM	0	NM
Idaho	308	324	-5.0%	NM	NM	277	284	1	NM	28	38
Montana	208	223	-6.5%	22	23	184	198	0	0	2	NM
Nevada	718	558	28.6%	4	NM	708	549	7	6	0	NM
New Mexico	471	442	6.6%	22	21	449	421	NM	NM	0	0
Utah	320	170	88.7%	24	22	295	146	1	NM	0	0
Wyoming	392	433	-9.5%	179	206	213	227	0	0	0	0
Pacific Contiguous	6,613	5,949	11.2%	684	754	5,638	4,899	82	95	209	201
California	5,062	4,266	18.7%	167	158	4,766	3,972	78	92	51	45
Oregon	681	703	-3.2%	87	106	550	556	NM	NM	42	40
Washington	870	980	-11.1%	430	491	323	370	NM	NM	116	117
Pacific Noncontiguous	140	121	15.5%	21	15	101	71	17	23	NM	11
Alaska	20	21	-4.8%	10	10	NM	5	4	5	NM	NM
Hawaii	120	100	19.9%	11	5	95	66	14	19	0	10
U.S. Total	36,873	31,344	17.6%	4,390	3,866	29,836	24,824	263	294	2,384	2,360

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	2,887	2,880	0.2%	240	253	2,278	2,287	49	39	319	302
Connecticut	193	231	-16.6%	1	0	192	231	0	0	0	0
Maine	1,400	1,266	10.6%	0	0	1,060	945	21	21	319	301
Massachusetts	481	494	-2.7%	19	21	447	463	15	9	0	NM
New Hampshire	495	587	-15.6%	80	82	404	497	11	7	0	0
Rhode Island	96	60	60.5%	0	0	94	58	2	NM	0	0
Vermont	223	242	-8.1%	140	149	82	92	1	NM	0	0
Middle Atlantic	3,544	4,112	-13.8%	18	22	3,146	3,718	159	171	220	201
New Jersey	449	442	1.7%	18	22	358	339	72	79	NM	NM
New York	1,605	1,886	-14.9%	0	0	1,500	1,775	50	52	56	59
Pennsylvania	1,489	1,784	-16.5%	0	0	1,288	1,604	37	39	163	141
East North Central	8,105	9,024	-10.2%	905	1,042	6,754	7,505	55	55	391	421
Illinois	3,410	3,659	-6.8%	10	9	3,398	3,648	NM	NM	0	0
Indiana	1,370	1,898	-27.8%	93	82	1,253	1,794	6	5	18	17
Michigan	1,863	2,031	-8.3%	445	581	1,242	1,249	30	34	145	167
Ohio	705	634	11.1%	NM	7	616	539	4	NM	79	85
Wisconsin	758	801	-5.4%	350	362	245	275	14	11	149	152
West North Central	19,568	16,597	17.9%	6,214	5,745	13,133	10,670	40	42	181	140
Iowa	5,841	5,557	5.1%	3,853	3,456	1,969	2,074	8	11	11	16
Kansas	4,744	3,808	24.6%	378	253	4,365	3,550	0	0	NM	5
Minnesota	3,637	3,266	11.4%	773	823	2,685	2,317	13	15	165	111
Missouri	468	377	24.0%	12	10	441	354	14	12	1	NM
Nebraska	1,491	986	51.1%	78	74	1,409	908	5	4	0	0
North Dakota	2,568	1,834	40.0%	858	884	1,708	944	0	0	NM	6
South Dakota	820	767	6.8%	263	245	557	523	0	0	0	0
South Atlantic	7,169	6,329	13.3%	762	574	3,628	3,057	104	119	2,675	2,579
Delaware	29	31	-5.1%	NM	NM	22	24	2	NM	NM	3
District of Columbia	14	0	--	0	0	14	0	0	0	0	0
Florida	1,477	1,207	22.3%	169	52	746	637	14	15	548	503
Georgia	1,580	1,288	22.6%	57	15	529	285	NM	3	994	985
Maryland	310	333	-7.0%	NM	NM	271	299	6	9	31	23
North Carolina	1,664	1,310	27.0%	71	58	1,267	949	39	42	287	261
South Carolina	666	613	8.8%	113	106	104	113	0	0	450	395
Virginia	1,027	1,081	-5.0%	350	340	273	284	43	48	361	409
West Virginia	403	466	-13.6%	0	0	403	466	0	0	0	0
East South Central	1,578	1,610	-2.0%	23	21	154	117	NM	NM	1,401	1,471
Alabama	827	815	1.4%	0	0	99	63	0	0	728	752
Kentucky	104	124	-15.8%	23	21	2	NM	0	0	79	101
Mississippi	370	394	-6.1%	0	0	NM	NM	0	0	366	391
Tennessee	277	277	0.0%	0	0	49	50	NM	NM	228	227
West South Central	27,168	22,104	22.9%	518	458	25,378	20,321	18	24	1,254	1,301
Arkansas	367	392	-6.3%	NM	0	29	36	2	NM	336	355
Louisiana	638	661	-3.5%	0	0	22	23	0	0	615	638
Oklahoma	6,749	5,258	28.4%	436	388	6,231	4,794	0	0	82	76
Texas	19,415	15,793	22.9%	82	71	19,096	15,468	17	23	220	232
Mountain	10,111	9,943	1.7%	837	1,064	9,152	8,747	29	31	93	102
Arizona	1,136	966	17.6%	111	109	1,022	853	4	4	0	0
Colorado	2,815	2,834	-0.7%	86	29	2,723	2,800	5	NM	1	NM
Idaho	745	877	-15.0%	NM	NM	653	777	3	NM	87	95
Montana	552	680	-18.8%	60	71	487	604	0	0	5	5
Nevada	1,808	1,548	16.8%	8	7	1,787	1,524	14	16	0	NM
New Mexico	1,246	1,173	6.2%	45	52	1,200	1,121	NM	NM	0	0
Utah	814	388	109.5%	69	69	742	316	3	3	0	0
Wyoming	995	1,476	-32.6%	456	725	538	751	0	0	0	0
Pacific Contiguous	16,407	14,613	12.3%	1,639	1,836	13,908	11,907	235	265	625	605
California	12,755	10,606	20.3%	455	431	11,928	9,786	223	256	148	134
Oregon	1,520	1,622	-6.3%	177	216	1,206	1,277	7	4	130	125
Washington	2,132	2,385	-10.6%	1,007	1,190	774	843	4	5	347	347
Pacific Noncontiguous	380	321	18.6%	52	51	273	183	54	58	NM	29
Alaska	51	61	-17.0%	28	31	NM	16	8	13	NM	NM
Hawaii	329	259	27.0%	24	20	259	167	46	45	0	27
U.S. Total	96,918	87,533	10.7%	11,208	11,067	77,805	68,511	744	803	7,160	7,151

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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, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	-38	-56	-32.5%	0	0	-38	-56	0	0	0	0
Connecticut	-2	-4	-62.7%	0	0	-2	-4	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-36	-52	-30.0%	0	0	-36	-52	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	-72	-74	-2.1%	-44	-37	-29	-37	0	0	0	0
New Jersey	-12	-13	-1.2%	-12	-13	0	0	0	0	0	0
New York	-31	-25	26.7%	-31	-25	0	0	0	0	0	0
Pennsylvania	-29	-37	-21.9%	0	0	-29	-37	0	0	0	0
East North Central	-39	-23	74.0%	-39	-23	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	-39	-23	74.0%	-39	-23	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	-9	5	-284.1%	-9	5	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	-9	5	-284.1%	-9	5	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	-228	-116	95.6%	-228	-116	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	-105	-8	NM	-105	-8	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	-58	-55	4.9%	-58	-55	0	0	0	0	0	0
Virginia	-65	-53	23.2%	-65	-53	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-48	-25	88.3%	-48	-25	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	-48	-25	88.3%	-48	-25	0	0	0	0	0	0
West South Central	-5	-9	-41.0%	-5	-9	0	0	0	0	0	0
Arkansas	0	0	-29.8%	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-5	-9	-41.1%	-5	-9	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-26	-32	-18.5%	-26	-32	0	0	0	0	0	0
Arizona	-3	-2	13.0%	-3	-2	0	0	0	0	0	0
Colorado	-23	-29	-20.9%	-23	-29	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-51	-54	-4.0%	-51	-54	0	0	0	0	0	0
California	-51	-53	-4.4%	-51	-53	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	0	36.1%	-1	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-517	-384	34.5%	-450	-291	-66	-93	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 March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	-115	-129	-10.5%	0	0	-115	-129	0	0	0	0
Connecticut	-7	0	NM	0	0	-7	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-108	-129	-16.2%	0	0	-108	-129	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	-259	-252	2.7%	-128	-141	-131	-112	0	0	0	0
New Jersey	-37	-44	-16.7%	-37	-44	0	0	0	0	0	0
New York	-91	-96	-5.4%	-91	-96	0	0	0	0	0	0
Pennsylvania	-131	-112	17.3%	0	0	-131	-112	0	0	0	0
East North Central	-127	-89	43.5%	-127	-89	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	-127	-89	43.5%	-127	-89	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	-13	138	-109.2%	-13	138	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	-13	138	-109.2%	-13	138	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	-749	-314	138.4%	-749	-314	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	-345	35	NM	-345	35	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	-199	-151	31.8%	-199	-151	0	0	0	0	0	0
Virginia	-206	-199	3.7%	-206	-199	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-131	-123	6.8%	-131	-123	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	-131	-123	6.8%	-131	-123	0	0	0	0	0	0
West South Central	-18	1	NM	-18	1	0	0	0	0	0	0
Arkansas	1	13	-92.8%	1	13	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-19	-11	69.7%	-19	-11	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-83	-85	-2.6%	-83	-85	0	0	0	0	0	0
Arizona	-8	-4	74.5%	-8	-4	0	0	0	0	0	0
Colorado	-75	-81	-6.8%	-75	-81	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	57	-242	-123.6%	57	-242	0	0	0	0	0	0
California	59	-240	-124.6%	59	-240	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-2	-2	24.8%	-2	-2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,439	-1,094	31.5%	-1,192	-854	-246	-241	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	149	148	0.8%	0	0	128	132	7	8	14	8
Connecticut	43	49	-11.9%	0	0	43	49	0	0	0	0
Maine	38	30	25.2%	0	0	16	14	7	8	14	8
Massachusetts	65	65	0.8%	0	0	65	65	0	0	0	0
New Hampshire	3	4	-25.9%	0	0	3	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	187	197	-4.9%	0	0	144	158	37	39	6	0
New Jersey	52	43	20.9%	0	0	33	30	13	13	6	0
New York	65	76	-14.7%	0	0	50	59	15	17	0	0
Pennsylvania	70	78	-9.6%	0	0	61	69	10	9	0	0
East North Central	88	80	10.3%	17	4	8	13	12	14	52	50
Illinois	26	19	34.8%	0	0	-1	0	0	0	26	20
Indiana	22	26	-15.4%	0	0	0	0	2	NM	20	24
Michigan	20	28	-28.3%	0	NM	9	12	10	12	1	2
Ohio	16	NM	NM	16	0	-1	NM	0	0	1	1
Wisconsin	4	5	-7.2%	1	2	0	0	0	0	NM	NM
West North Central	36	39	-7.7%	17	21	11	11	NM	NM	5	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	32	35	-8.8%	14	17	11	11	NM	NM	5	NM
Missouri	0	0	-100.0%	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	NM	NM	4	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	345	385	-10.5%	0	0	164	186	10	17	171	182
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	265	260	2.0%	0	0	126	114	0	0	139	146
Georgia	10	11	-11.0%	0	0	0	0	0	0	10	11
Maryland	20	23	-13.7%	0	0	20	23	0	NM	0	0
North Carolina	38	55	-31.4%	0	0	17	32	0	0	20	23
South Carolina	2	3	-17.2%	0	0	1	NM	0	0	2	2
Virginia	10	34	-71.8%	0	0	0	17	10	17	0	0
West Virginia	0	-1	-113.9%	0	0	0	-1	0	0	0	0
East South Central	8	11	-31.4%	6	9	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	6	9	-37.9%	6	9	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	2	2	-1.8%	0	0	0	0	0	0	2	2
West South Central	96	100	-3.7%	0	0	11	4	0	0	85	96
Arkansas	0	1	-53.8%	0	0	0	0	0	0	0	1
Louisiana	51	46	11.9%	0	0	0	0	0	0	51	46
Oklahoma	3	4	-20.3%	0	0	4	3	0	0	-1	NM
Texas	42	50	-16.0%	0	0	7	NM	0	0	35	49
Mountain	63	58	8.8%	2	NM	31	33	0	0	30	24
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	NM	NM	0	0	1	NM	0	0	4	NM
Idaho	7	6	11.8%	0	0	0	0	0	0	7	6
Montana	30	32	-6.9%	0	0	30	32	0	0	0	0
Nevada	3	NM	NM	3	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	13	16	-13.1%	0	0	0	NM	0	0	13	15
Wyoming	6	0	--	0	0	0	0	0	0	6	0
Pacific Contiguous	84	62	34.6%	0	NM	30	18	0	0	54	44
California	75	54	39.1%	0	NM	21	9	0	0	54	44
Oregon	4	4	-3.1%	0	NM	4	4	0	0	0	0
Washington	6	5	13.0%	0	0	6	5	0	0	0	0
Pacific Noncontiguous	22	19	18.0%	9	NM	0	1	13	18	0	0
Alaska	0	NM	NM	0	NM	0	0	0	0	0	0
Hawaii	22	19	19.6%	9	0	0	1	13	18	0	0
U.S. Total	1,078	1,099	-1.9%	51	34	527	556	82	98	418	412

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	437	460	-4.9%	0	0	380	413	19	22	38	25
Connecticut	125	147	-15.4%	0	0	125	147	0	0	0	0
Maine	104	88	17.7%	0	0	47	41	19	22	38	25
Massachusetts	197	212	-6.7%	0	0	197	212	0	0	0	0
New Hampshire	11	13	-12.1%	0	0	11	13	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	562	574	-2.1%	0	0	441	463	103	110	17	0
New Jersey	151	133	14.0%	0	0	96	95	37	38	17	0
New York	196	214	-8.5%	0	0	151	164	45	50	0	0
Pennsylvania	215	227	-5.4%	0	0	194	204	21	23	0	0
East North Central	237	245	-3.4%	45	12	22	42	34	38	136	154
Illinois	62	55	12.7%	0	0	-3	-1	0	0	65	56
Indiana	61	84	-27.9%	0	0	0	0	5	4	56	80
Michigan	59	85	-30.4%	0	7	27	38	29	33	4	6
Ohio	42	7	506.1%	41	0	-2	4	0	0	3	3
Wisconsin	13	14	-9.0%	4	5	0	0	0	0	9	9
West North Central	104	111	-6.9%	46	56	36	34	8	8	13	13
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	1	0	--	0	0	0	0	0	0	1	0
Minnesota	91	94	-3.8%	34	41	36	34	8	8	12	11
Missouri	1	6	-86.4%	1	6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	11	10	10.6%	11	10	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,057	1,123	-5.9%	0	0	557	591	38	44	462	487
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	765	765	0.0%	0	0	404	379	0	0	361	386
Georgia	31	30	3.9%	0	0	0	0	0	0	31	30
Maryland	70	65	7.0%	0	0	70	65	0	NM	0	0
North Carolina	117	161	-27.2%	0	0	56	95	0	0	61	65
South Carolina	10	8	30.9%	0	0	2	NM	0	0	9	6
Virginia	66	97	-32.1%	0	0	27	53	38	44	0	0
West Virginia	-1	-2	-43.2%	0	0	-1	-2	0	0	0	0
East South Central	15	25	-39.2%	10	19	0	0	0	0	6	7
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	10	19	-48.8%	10	19	0	0	0	0	0	0
Mississippi	1	NM	NM	0	0	0	0	0	0	1	NM
Tennessee	5	5	-6.0%	0	0	0	0	0	0	5	5
West South Central	313	317	-1.2%	0	0	30	6	0	0	284	311
Arkansas	1	2	-45.8%	0	0	0	0	0	0	1	2
Louisiana	150	153	-1.6%	0	0	0	0	0	0	150	153
Oklahoma	6	7	-9.0%	0	0	9	3	0	0	-3	4
Texas	156	155	0.1%	0	0	20	3	0	0	135	153
Mountain	178	159	12.3%	8	NM	87	94	0	0	83	64
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	15	12	21.2%	0	0	4	3	0	0	10	9
Idaho	16	18	-11.9%	0	0	0	0	0	0	16	18
Montana	83	90	-7.6%	0	0	83	90	0	0	0	0
Nevada	8	NM	NM	8	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	39	39	2.4%	0	0	0	NM	0	0	39	38
Wyoming	17	0	--	0	0	0	0	0	0	17	0
Pacific Contiguous	233	200	16.2%	0	NM	74	58	0	0	159	142
California	211	174	21.1%	0	NM	52	32	0	0	159	142
Oregon	10	11	-11.1%	0	NM	10	11	0	0	0	0
Washington	12	15	-20.4%	0	0	12	15	0	0	0	0
Pacific Noncontiguous	84	46	84.0%	37	NM	2	2	44	43	0	0
Alaska	-1	NM	NM	-1	NM	0	0	0	0	0	0
Hawaii	85	45	86.8%	38	0	2	2	44	43	0	0
U.S. Total	3,220	3,260	-1.2%	147	88	1,630	1,704	247	265	1,197	1,203

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	365	235	55.6%	27	21	335	210	4	4	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	246	139	77.4%	0	0	246	139	0	0	0	0
Massachusetts	25	22	9.2%	NM	6	16	13	3	3	0	NM
New Hampshire	45	45	-0.5%	0	0	45	45	0	0	0	0
Rhode Island	16	NM	NM	0	0	15	NM	1	NM	0	0
Vermont	32	26	24.3%	20	15	12	12	0	0	0	0
Middle Atlantic	744	745	-0.1%	0	0	744	744	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	404	388	3.9%	0	0	403	388	0	0	0	NM
Pennsylvania	338	354	-4.5%	0	0	338	354	0	0	0	0
East North Central	2,499	2,266	10.3%	268	250	2,224	2,009	NM	NM	NM	6
Illinois	1,212	1,096	10.6%	NM	NM	1,210	1,094	NM	NM	0	0
Indiana	459	510	-10.0%	0	0	459	510	0	NM	0	0
Michigan	503	405	24.4%	163	165	340	240	0	0	0	0
Ohio	170	127	33.6%	NM	NM	163	120	0	NM	NM	5
Wisconsin	155	128	20.6%	102	83	51	45	0	0	1	NM
West North Central	7,139	5,688	25.5%	2,353	1,983	4,782	3,702	NM	3	0	0
Iowa	2,198	1,859	18.2%	1,449	1,189	748	670	0	NM	0	0
Kansas	1,880	1,423	32.1%	210	94	1,670	1,329	0	0	0	0
Minnesota	1,128	944	19.5%	258	242	867	699	NM	3	0	0
Missouri	171	119	43.7%	0	0	171	119	0	0	0	0
Nebraska	506	344	47.3%	22	20	484	324	0	0	0	0
North Dakota	959	713	34.5%	320	346	639	367	0	0	0	0
South Dakota	297	286	4.1%	94	93	203	193	0	0	0	0
South Atlantic	274	186	47.3%	0	0	273	185	1	NM	0	0
Delaware	1	NM	NM	0	0	0	0	1	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	51	52	-0.5%	0	0	51	52	0	0	0	0
North Carolina	53	0	--	0	0	53	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	168	134	25.8%	0	0	168	134	0	0	0	0
East South Central	NM	6	NM	0	0	NM	6	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	6	NM	0	0	NM	6	0	0	0	0
West South Central	9,489	7,638	24.2%	195	158	9,289	7,476	5	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	2,498	1,991	25.5%	164	135	2,334	1,855	0	0	0	0
Texas	6,991	5,648	23.8%	31	22	6,955	5,621	5	NM	0	0
Mountain	2,299	2,405	-4.4%	233	239	2,064	2,164	NM	NM	0	NM
Arizona	64	56	14.2%	0	0	64	56	0	0	0	0
Colorado	924	941	-1.9%	32	11	891	930	NM	NM	0	NM
Idaho	217	259	-16.3%	0	0	217	259	0	0	0	0
Montana	206	221	-6.6%	22	23	184	198	0	0	0	0
Nevada	38	33	14.3%	0	0	38	33	0	0	0	0
New Mexico	367	377	-2.7%	0	0	366	377	NM	NM	0	0
Utah	92	85	8.6%	0	0	92	85	0	0	0	0
Wyoming	392	433	-9.5%	179	206	213	227	0	0	0	0
Pacific Contiguous	2,702	2,753	-1.9%	520	591	2,181	2,161	1	NM	0	NM
California	1,446	1,333	8.4%	50	34	1,395	1,298	1	NM	0	NM
Oregon	555	601	-7.6%	81	98	474	503	0	0	0	0
Washington	701	818	-14.4%	389	458	312	360	0	0	0	0
Pacific Noncontiguous	85	57	47.3%	10	10	74	47	0	0	0	0
Alaska	16	16	0.5%	10	10	NM	5	0	0	0	0
Hawaii	69	42	65.0%	0	0	69	42	0	0	0	0
U.S. Total	25,599	21,979	16.5%	3,606	3,252	21,970	18,706	16	14	NM	8

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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 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	965	761	26.7%	70	73	886	678	9	10	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	661	459	43.9%	0	0	661	459	0	0	0	0
Massachusetts	64	65	-1.7%	NM	18	41	39	7	8	0	NM
New Hampshire	111	141	-21.2%	0	0	111	141	0	0	0	0
Rhode Island	41	NM	NM	0	0	39	NM	2	NM	0	0
Vermont	83	88	-5.8%	53	55	30	34	0	0	0	0
Middle Atlantic	1,872	2,455	-23.8%	0	0	1,871	2,454	0	0	1	NM
New Jersey	NM	6	NM	0	0	NM	6	0	0	0	0
New York	1,021	1,302	-21.6%	0	0	1,020	1,301	0	0	1	NM
Pennsylvania	845	1,146	-26.3%	0	0	845	1,146	0	0	0	0
East North Central	6,615	7,516	-12.0%	702	863	5,893	6,632	NM	NM	NM	18
Illinois	3,258	3,508	-7.1%	NM	NM	3,253	3,503	NM	NM	0	0
Indiana	1,201	1,738	-30.9%	0	0	1,201	1,737	0	NM	0	0
Michigan	1,277	1,414	-9.6%	442	579	836	834	0	0	0	0
Ohio	493	426	15.7%	NM	NM	475	405	1	NM	NM	16
Wisconsin	385	431	-10.5%	254	276	129	152	0	0	2	NM
West North Central	18,860	16,008	17.8%	6,087	5,615	12,764	10,384	NM	9	0	0
Iowa	5,799	5,493	5.6%	3,843	3,449	1,954	2,043	1	NM	0	0
Kansas	4,727	3,788	24.8%	378	253	4,349	3,535	0	0	0	0
Minnesota	3,065	2,835	8.1%	687	730	2,371	2,097	NM	8	0	0
Missouri	419	335	25.1%	0	0	419	335	0	0	0	0
Nebraska	1,465	962	52.3%	59	54	1,406	908	0	0	0	0
North Dakota	2,566	1,828	40.4%	858	884	1,708	944	0	0	0	0
South Dakota	820	767	6.8%	263	245	556	523	0	0	0	0
South Atlantic	657	635	3.5%	0	0	656	634	2	NM	0	0
Delaware	2	NM	NM	0	0	0	0	2	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	132	169	-21.7%	0	0	132	169	0	0	0	0
North Carolina	122	0	--	0	0	122	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	402	464	-13.5%	0	0	402	464	0	0	0	0
East South Central	NM	15	NM	0	0	NM	15	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	15	NM	0	0	NM	15	0	0	0	0
West South Central	25,369	20,400	24.4%	517	457	24,845	19,931	8	11	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	6,664	5,177	28.7%	435	386	6,229	4,791	0	0	0	0
Texas	18,705	15,223	22.9%	82	71	18,615	15,141	8	11	0	0
Mountain	6,275	6,946	-9.7%	602	824	5,668	6,119	NM	NM	1	NM
Arizona	178	136	30.6%	0	0	178	136	0	0	0	0
Colorado	2,607	2,722	-4.2%	86	29	2,517	2,691	NM	NM	1	NM
Idaho	527	703	-25.1%	0	0	527	703	0	0	0	0
Montana	547	675	-18.9%	60	71	487	604	0	0	0	0
Nevada	104	69	50.4%	0	0	104	69	0	0	0	0
New Mexico	1,027	1,011	1.6%	0	0	1,026	1,010	NM	NM	0	0
Utah	290	153	89.3%	0	0	290	153	0	0	0	0
Wyoming	995	1,476	-32.6%	456	725	538	751	0	0	0	0
Pacific Contiguous	6,792	5,830	16.5%	1,185	1,336	5,605	4,491	2	NM	1	NM
California	3,988	2,632	51.6%	134	67	3,851	2,562	2	NM	1	NM
Oregon	1,166	1,309	-10.9%	160	194	1,007	1,116	0	0	0	0
Washington	1,637	1,889	-13.3%	891	1,075	747	813	0	0	0	0
Pacific Noncontiguous	228	149	53.4%	28	31	200	118	0	0	0	0
Alaska	42	47	-10.5%	28	31	NM	16	0	0	0	0
Hawaii	186	102	82.5%	0	0	186	102	0	0	0	0
U.S. Total	67,640	60,714	11.4%	9,190	9,200	58,394	51,455	37	38	19	21

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	605	637	-5.1%	54	51	429	476	14	10	108	100
Connecticut	64	75	-15.5%	0	0	64	75	0	0	0	0
Maine	258	263	-2.1%	0	0	141	156	8	7	108	100
Massachusetts	93	91	2.4%	0	0	90	90	2	NM	0	0
New Hampshire	134	146	-8.3%	28	22	102	121	3	2	0	0
Rhode Island	18	18	0.0%	0	0	18	18	0	0	0	0
Vermont	39	44	-11.8%	25	29	NM	NM	0	NM	0	0
Middle Atlantic	480	471	1.9%	0	0	360	357	47	49	73	66
New Jersey	83	78	6.6%	0	0	68	62	16	16	0	0
New York	183	187	-2.3%	0	0	148	148	16	18	18	20
Pennsylvania	214	206	4.0%	0	0	144	147	15	14	55	45
East North Central	482	475	1.4%	64	52	272	267	18	19	128	138
Illinois	47	45	3.8%	2	NM	45	44	0	0	0	0
Indiana	32	36	-10.3%	21	24	4	NM	2	NM	6	6
Michigan	205	208	-1.5%	0	0	144	139	11	12	51	58
Ohio	65	64	2.5%	NM	NM	41	40	1	NM	23	23
Wisconsin	132	122	8.3%	41	26	38	41	5	4	48	51
West North Central	209	197	6.3%	45	45	92	92	7	9	66	52
Iowa	12	22	-44.5%	NM	NM	5	10	NM	4	3	6
Kansas	NM	7	NM	0	0	NM	NM	0	0	NM	NM
Minnesota	173	148	16.7%	32	32	77	72	NM	2	61	41
Missouri	10	9	14.3%	NM	NM	NM	NM	1	1	0	NM
Nebraska	8	9	-7.3%	6	7	0	0	2	NM	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,614	1,502	7.5%	172	141	541	507	23	34	878	820
Delaware	6	6	3.9%	0	0	NM	NM	0	0	NM	NM
District of Columbia	5	0	--	0	0	5	0	0	0	0	0
Florida	445	374	19.0%	7	9	245	188	5	5	189	171
Georgia	401	372	7.7%	0	0	62	54	0	NM	339	318
Maryland	38	42	-9.8%	0	0	27	30	NM	NM	10	10
North Carolina	177	187	-5.7%	0	0	92	98	6	6	78	83
South Carolina	220	187	17.7%	42	36	34	37	0	0	145	114
Virginia	321	332	-3.3%	123	95	72	96	11	19	116	122
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	502	532	-5.6%	NM	7	31	29	0	0	466	496
Alabama	258	279	-7.8%	0	0	23	21	0	0	235	258
Kentucky	32	42	-23.0%	NM	7	1	NM	0	0	26	35
Mississippi	126	130	-3.0%	0	0	NM	NM	0	0	125	129
Tennessee	86	81	6.9%	0	0	NM	6	0	0	80	74
West South Central	497	504	-1.5%	0	0	76	71	3	4	417	428
Arkansas	113	130	-13.1%	0	0	8	11	1	NM	105	119
Louisiana	216	212	1.8%	0	0	7	7	0	0	209	205
Oklahoma	29	27	7.2%	0	0	0	NM	0	0	29	26
Texas	138	135	2.8%	0	0	61	52	2	4	75	78
Mountain	89	86	2.9%	NM	NM	56	44	2	NM	30	39
Arizona	NM	9	NM	0	0	NM	9	0	0	0	0
Colorado	15	9	79.1%	0	0	15	9	0	0	0	0
Idaho	44	56	-21.9%	NM	NM	14	17	1	NM	28	38
Montana	2	NM	NM	0	0	0	0	0	0	2	NM
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	2	NM	NM	0	0	2	NM	0	0	0	0
Utah	6	7	-6.5%	0	0	NM	6	1	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	765	751	1.9%	64	49	423	418	70	84	208	200
California	512	510	0.3%	17	11	378	375	66	80	50	43
Oregon	84	80	4.7%	NM	NM	35	33	NM	NM	42	40
Washington	170	161	5.3%	41	33	11	10	NM	NM	116	117
Pacific Noncontiguous	24	35	-30.4%	7	1	0	0	17	23	NM	11
Alaska	4	5	-20.5%	0	0	0	0	4	5	NM	NM
Hawaii	20	30	-32.2%	7	1	0	0	14	19	0	10
U.S. Total	5,267	5,191	1.5%	412	347	2,281	2,262	200	233	2,375	2,350

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	1,751	1,959	-10.6%	157	176	1,236	1,453	39	28	319	301
Connecticut	181	223	-18.8%	0	0	181	223	0	0	0	0
Maine	739	807	-8.4%	0	0	399	485	21	21	319	301
Massachusetts	279	291	-4.1%	0	0	272	290	7	NM	0	0
New Hampshire	384	446	-13.9%	80	82	293	357	11	7	0	0
Rhode Island	52	53	-1.7%	0	0	52	53	0	0	0	0
Vermont	117	140	-16.5%	77	94	40	46	1	NM	0	0
Middle Atlantic	1,427	1,411	1.2%	0	0	1,080	1,076	130	137	217	197
New Jersey	249	238	4.9%	0	0	205	190	44	47	0	0
New York	547	552	-0.8%	0	0	443	442	49	52	55	58
Pennsylvania	631	621	1.5%	0	0	432	444	37	38	162	139
East North Central	1,388	1,426	-2.6%	175	166	788	806	52	51	373	402
Illinois	142	139	1.8%	6	5	136	134	0	0	0	0
Indiana	106	109	-2.4%	70	74	12	13	5	4	18	17
Michigan	582	616	-5.6%	0	NM	406	415	30	34	145	167
Ohio	189	192	-1.4%	NM	NM	121	121	2	NM	64	68
Wisconsin	369	370	-0.1%	96	86	113	123	14	11	146	150
West North Central	601	580	3.7%	125	130	266	277	30	33	181	140
Iowa	41	65	-36.7%	8	7	15	31	7	10	11	16
Kansas	16	20	-18.0%	0	0	15	15	0	0	NM	5
Minnesota	479	428	11.8%	86	93	222	218	6	6	165	111
Missouri	40	36	9.7%	12	10	13	13	13	11	1	NM
Nebraska	24	24	-3.4%	19	20	0	0	5	4	0	0
North Dakota	NM	6	NM	0	0	0	0	0	0	NM	6
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,862	4,720	3.0%	460	466	1,648	1,585	79	90	2,675	2,579
Delaware	18	18	3.2%	0	0	15	15	0	0	NM	3
District of Columbia	14	0	--	0	0	14	0	0	0	0	0
Florida	1,316	1,161	13.4%	21	21	733	621	13	15	548	503
Georgia	1,164	1,162	0.1%	0	0	170	175	0	3	994	985
Maryland	127	115	9.8%	0	0	91	85	5	8	31	23
North Carolina	594	569	4.3%	0	0	289	291	18	17	287	261
South Carolina	660	612	7.8%	113	106	97	112	0	0	450	395
Virginia	968	1,081	-10.4%	325	339	239	284	43	48	361	409
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	1,511	1,579	-4.3%	19	21	91	86	0	0	1,401	1,471
Alabama	795	815	-2.5%	0	0	67	63	0	0	728	752
Kentucky	101	124	-18.3%	19	21	2	NM	0	0	79	101
Mississippi	369	394	-6.4%	0	0	NM	NM	0	0	366	391
Tennessee	247	246	0.5%	0	0	19	19	0	0	228	227
West South Central	1,489	1,547	-3.8%	0	0	226	235	10	12	1,254	1,301
Arkansas	362	386	-6.3%	0	0	24	30	2	NM	336	355
Louisiana	638	661	-3.5%	0	0	22	23	0	0	615	638
Oklahoma	84	79	5.4%	0	0	NM	NM	0	0	82	76
Texas	406	421	-3.5%	0	0	178	179	8	11	220	232
Mountain	267	257	3.9%	NM	NM	166	148	6	5	92	100
Arizona	53	46	14.3%	0	0	53	46	0	0	0	0
Colorado	42	25	67.4%	0	0	42	25	0	0	0	0
Idaho	137	149	-8.2%	NM	NM	44	49	3	NM	87	95
Montana	5	5	-1.2%	0	0	0	0	0	0	5	5
Nevada	6	6	-2.1%	0	0	6	6	0	0	0	0
New Mexico	5	5	-2.2%	0	0	5	5	0	0	0	0
Utah	19	20	-5.3%	0	0	16	17	3	3	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,227	2,269	-1.9%	174	182	1,219	1,249	211	237	623	602
California	1,482	1,527	-3.0%	43	51	1,095	1,118	199	228	146	130
Oregon	250	246	1.6%	15	16	98	100	7	4	130	125
Washington	495	496	-0.3%	116	114	27	30	4	5	347	347
Pacific Noncontiguous	69	97	-28.7%	14	10	0	0	54	58	NM	29
Alaska	9	15	-37.1%	0	0	0	0	8	13	NM	NM
Hawaii	60	82	-27.2%	14	10	0	0	46	45	0	27
U.S. Total	15,593	15,844	-1.6%	1,127	1,154	6,721	6,916	609	651	7,136	7,123

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	406	391	4.0%	24	22	382	368	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	8	8	-1.0%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	349	335	4.3%	0	0	349	335	0	0	0	0
New Mexico	2	NM	NM	0	0	2	NM	0	0	0	0
Utah	47	46	2.3%	24	22	23	24	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,105	1,048	5.4%	56	71	1,049	977	0	0	0	0
California	1,083	1,030	5.1%	56	70	1,027	960	0	0	0	0
Oregon	22	19	20.7%	0	NM	22	17	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	21	0.9%	0	0	22	21	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	21	0.9%	0	0	22	21	0	0	0	0
U.S. Total	1,533	1,460	5.0%	80	94	1,452	1,367	0	0	0	0

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	1,171	1,168	0.3%	69	69	1,102	1,100	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	24	24	-1.8%	0	0	24	24	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,010	1,004	0.5%	0	0	1,010	1,004	0	0	0	0
New Mexico	4	4	2.1%	0	0	4	4	0	0	0	0
Utah	134	136	-1.5%	69	69	65	68	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,208	3,078	4.2%	189	212	3,019	2,865	0	0	0	0
California	3,145	3,020	4.1%	188	208	2,957	2,812	0	0	0	0
Oregon	63	58	9.0%	1	NM	62	54	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	63	58	10.1%	0	0	63	58	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	63	58	10.1%	0	0	63	58	0	0	0	0
U.S. Total	4,443	4,304	3.2%	258	281	4,185	4,023	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 1.17.A. Net Generation from Solar Photovoltaic
by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	275	210	30.6%	83	67	192	144	6	NM	76	65	NM	NM	NM	NM	110	81	8	7	0	0	8	7	74	55
Connecticut	39	28	39.5%	4	NM	35	26	0	0	3	NM	15	11	0	0	15	11	2	1	0	0	2	1	19	14
Maine	3	2	36.7%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Massachusetts	198	160	23.8%	67	58	132	103	1	NM	65	56	NM	NM	NM	NM	85	65	6	5	0	0	6	5	40	32
New Hampshire	8	4	86.4%	0	0	8	4	0	0	0	0	2	1	0	0	2	1	1	0	0	0	1	0	5	3
Rhode Island	NM	3	NM	NM	NM	4	2	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	2	0
Vermont	21	12	67.3%	11	6	10	7	NM	NM	6	5	4	2	0	0	4	2	0	0	0	0	0	0	6	4
Middle Atlantic	412	352	17.2%	119	104	294	248	9	9	94	79	165	155	14	14	151	141	NM	NM	NM	NM	16	14	126	93
New Jersey	262	231	13.4%	94	83	168	149	9	9	72	60	116	114	13	13	103	101	NM	NM	NM	NM	9	8	56	40
New York	112	87	27.7%	18	14	94	73	0	0	17	14	NM	NM	NM	NM	35	28	1	1	0	0	1	1	58	44
Pennsylvania	38	33	16.0%	6	7	32	26	0	0	5	6	NM	NM	NM	NM	14	12	NM	NM	NM	NM	6	5	13	9
East North Central	76	54	40.9%	48	34	28	20	14	5	35	28	NM	NM	NM	NM	17	14	NM	NM	0	NM	NM	NM	9	5
Illinois	8	8	5.5%	4	5	4	3	0	NM	4	5	2	2	0	0	2	2	NM	0	0	0	NM	0	2	1
Indiana	32	23	43.0%	30	21	2	1	11	NM	19	18	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Michigan	NM	5	NM	NM	NM	NM	4	NM	NM	0	0	4	3	0	0	4	3	NM	NM	0	0	NM	NM	2	1
Ohio	22	16	36.8%	11	7	11	9	NM	NM	10	5	NM	NM	NM	NM	8	7	NM	NM	0	NM	NM	0	2	2
Wisconsin	NM	3	NM	NM	NM	4	3	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	1
West North Central	80	26	206.7%	51	NM	29	22	NM	0	50	NM	16	NM	0	NM	16	13	1	0	0	0	1	0	13	9
Iowa	NM	4	NM	NM	0	7	4	NM	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	2	1
Kansas	1	1	28.1%	0	NM	1	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Minnesota	49	4	NM	44	NM	4	3	NM	0	44	NM	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Missouri	21	16	29.8%	4	NM	17	14	0	0	4	NM	9	NM	0	NM	9	8	0	0	0	0	0	0	8	6
Nebraska	NM	0	NM	NM	0	0	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	15.1%	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	936	526	78.0%	766	403	170	122	130	40	624	352	81	86	11	11	70	75	20	4	0	0	20	4	80	43
Delaware	17	15	13.4%	4	5	12	10	NM	NM	4	4	NM	NM	NM	NM	7	7	1	0	0	0	1	0	5	3
District of Columbia	6	4	43.1%	0	0	6	4	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	2	1
Florida	90	35	152.6%	65	14	25	21	59	8	6	6	9	NM	0	NM	9	11	1	1	0	0	1	1	15	9
Georgia	NM	67	NM	183	53	NM	NM	25	6	158	46	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	0
Maryland	97	73	33.1%	24	20	74	53	NM	NM	22	19	NM	NM	NM	NM	29	28	3	3	0	0	3	3	41	22
North Carolina	476	324	46.8%	459	311	17	14	34	24	415	276	22	21	10	10	12	10	0	0	0	0	0	0	5	3
South Carolina	NM	2	NM	NM	NM	10	1	0	0	NM	NM	2	0	0	0	2	0	NM	0	0	0	NM	0	7	1
Virginia	34	4	740.2%	27	NM	6	4	11	NM	16	0	3	2	0	0	3	2	NM	NM	0	0	NM	NM	3	2
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	0	0
East South Central	39	15	167.5%	28	7	11	8	2	0	27	7	NM	NM	NM	NM	8	7	NM	0	0	0	NM	0	3	0
Alabama	NM	0	NM	15	0	NM	0	0	0	15	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	3	1	134.3%	2	0	2	1	2	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Mississippi	NM	0	NM	NM	0	3	0	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0
Tennessee	17	13	34.2%	11	7	6	5	0	0	11	7	NM	NM	NM	NM	6	5	0	0	0	0	0	0	0	0
West South Central	240	100	140.6%	165	56	75	43	NM	1	164	56	22	NM	0	NM	22	12	NM	0	0	0	NM	0	53	31
Arkansas	3	3	12.8%	3	NM	1	1	NM	0	2	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	18	16	13.6%	0	0	18	16	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	17	15
Oklahoma	2	1	159.9%	0	1	2	0	0	1	0	0	1	0	0	0	1	0	NM	0	0	0	NM	0	NM	0
Texas	216	80	170.8%	162	53	54	26	0	0	162	53	19	NM	0	NM	19	11	0	0	0	0	0	0	35	15
Mountain	1,349	796	69.4%	1,075	562	274	234	81	64	983	489	88	93	10	10	78	83	15	NM	0	NM	15	17	181	134
Arizona	520	399	30.4%	362	258	158	141	56	40	303	217	NM	NM	NM	NM	45	47	12	15	0	0	12	15	101	79
Colorado	124	75	65.8%	79	36	45	38	0	0	78	35	NM	NM	NM	NM	18	17	0	0	0	0	0	0	26	21
Idaho	40	1	NM	39	0	1	1	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montana	1	1	35.9%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	348	203	71.3%	319	173	29	30	4	NM	309	164	8	15	7	6	2	8	2	NM	0	NM	2	2	25	20
New Mexico	119	76	56.2%	101	62	18	14	22	21	80	41	7	7	0	0	7	7	0	0	0	0	0	0	10	7
Utah	197	42	371.6%	175	32	22	10	0	0	175	32	5	3	0	0	5	3	1	1	0	0	1	1	16	6
Wyoming	0	0	24.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	2,737	1,893	44.5%	1,834	1,212	902	681	45	43	1,778	1,158	215	171	11	11	204	161	NM	NM	NM	NM	147	107	552	414
California	2,696	1,875	43.8%	1,815	1,208	881	667	44	42	1,759	1,154	208	167	11	11	197	156	NM	NM	NM	NM	146	106	539	404
Oregon	32	12	175.1%	20	4	13	8	NM	NM	19	NM	6	3	0	0	6	3	1	0	0	0	1	0	6	4
Washington	8	6	27.4%	0	0	8	6	0	0	0	0	1	1	0	0	1	1	NM	0	0	0	NM	0	7	5
Pacific Noncontiguous	89	66	34.4%	9	7	80	59	4	4	5	NM	29	20	0	0	29	20	0	0	0	0	0	0	51	39
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	89	66	34.1%	9	7	80	59	4	4	5	NM	29	20	0	0	29	20	0	0	0	0	0	0	51	39
U.S. Total	6,232	4,038	54.3%	4,178	2,456	2,054	1,582	292	167	3,836	2,239	751	655	47	47	703	608	212	NM	2	NM	210	150	1,142	824

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

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	611	499	22.6%	171	160	440	338	13	4	157	155	257	199	1	NM	256	198	20	16	0	0	20	16	164	124
Connecticut	88	65	36.2%	8	4	80	61	1	0	7	4	33	25	0	0	33	25	4	3	0	0	4	3	43	32
Maine	8	6	35.4%	0	0	8	6	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	5	4
Massachusetts	442	381	16.0%	138	138	304	242	2	NM	134	134	202	160	1	NM	201	159	15	13	0	0	15	13	89	70
New Hampshire	17	10	82.1%	0	0	17	10	0	0	0	0	6	3	0	0	6	3	1	0	0	0	1	0	10	6
Rhode Island	11	8	41.4%	NM	4	8	4	0	0	NM	4	5	3	0	0	5	3	0	0	0	0	0	0	4	1
Vermont	44	30	49.8%	22	14	22	16	10	NM	12	13	9	5	0	0	9	5	0	0	0	0	0	0	13	10
Middle Atlantic	944	829	13.9%	245	247	699	582	18	22	195	188	404	374	29	34	375	340	42	38	NM	NM	39	35	285	207
New Jersey	604	551	9.6%	195	198	409	353	18	22	148	143	287	278	27	32	260	246	24	20	NM	NM	23	19	126	88
New York	253	199	27.5%	37	33	216	166	0	0	36	32	85	67	NM	NM	83	67	3	3	0	0	3	3	130	97
Pennsylvania	87	79	10.0%	13	16	74	63	0	0	11	13	33	29	NM	NM	32	28	15	15	NM	NM	14	13	29	22
East North Central	160	127	26.8%	102	82	59	45	29	13	72	67	37	32	NM	NM	36	32	3	2	0	NM	3	1	19	12
Illinois	18	19	-1.2%	10	12	9	7	0	NM	9	11	5	5	0	0	5	5	0	0	0	0	0	0	4	2
Indiana	67	55	23.5%	63	52	5	3	23	8	40	44	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Michigan	16	10	54.0%	4	NM	12	8	4	NM	0	0	7	6	0	0	7	6	0	0	0	0	0	0	4	2
Ohio	47	37	27.4%	22	16	24	21	NM	NM	20	12	19	17	NM	NM	18	16	1	2	0	NM	1	1	5	4
Wisconsin	12	7	88.1%	NM	NM	9	6	0	0	NM	NM	4	4	0	0	4	4	2	0	0	0	2	0	4	3
West North Central	173	62	178.1%	106	9	67	54	NM	0	104	8	37	31	0	NM	37	31	1	1	0	0	1	1	29	22
Iowa	15	11	43.6%	NM	0	14	11	NM	0	0	0	10	7	0	0	10	7	0	0	0	0	0	0	4	3
Kansas	3	2	23.0%	0	NM	3	2	0	0	0	NM	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	102	8	NM	93	NM	9	6	NM	0	92	NM	4	3	0	0	4	3	1	0	0	0	1	0	4	3
Missouri	50	40	23.2%	9	6	40	34	0	0	9	6	22	20	0	NM	22	19	0	0	0	0	0	0	18	15
Nebraska	3	0	534.8%	2	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
North Dakota	0	0	10.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	0	263.9%	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	2,052	1,252	64.0%	1,650	961	403	291	302	95	1,324	838	207	211	23	28	184	183	40	9	0	0	40	9	179	98
Delaware	37	34	8.5%	9	11	28	23	NM	NM	8	10	17	16	NM	NM	17	15	1	1	0	0	1	1	10	7
District of Columbia	16	10	60.6%	0	0	16	10	0	0	0	0	11	7	0	0	11	7	0	0	0	0	0	0	5	3
Florida	225	87	156.9%	160	33	65	55	147	17	12	15	26	30	0	NM	25	29	2	1	0	0	2	1	38	24
Georgia	462	164	181.7%	416	126	46	38	57	15	359	110	16	38	NM	NM	16	37	27	0	0	0	27	0	3	1
Maryland	220	166	32.4%	50	48	169	118	NM	NM	48	45	75	65	NM	NM	74	64	8	6	0	0	8	6	88	48
North Carolina	990	775	27.7%	949	741	42	34	71	58	857	658	51	51	21	25	30	26	1	1	0	0	1	1	11	7
South Carolina	28	4	589.2%	7	NM	21	3	0	0	7	NM	4	1	0	0	4	1	1	0	0	0	1	0	16	2
Virginia	73	9	683.8%	59	NM	14	9	25	NM	34	0	6	4	0	0	6	4	0	0	0	0	0	0	8	5
West Virginia	2	1	28.3%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	82	36	130.2%	60	17	22	19	3	0	56	16	19	18	NM	NM	18	18	0	0	0	0	0	0	4	1
Alabama	33	1	NM	32	0	1	1	0	0	32	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Kentucky	7	3	114.8%	3	0	4	3	3	0	0	0	3	3	0	0	3	3	0	0	0	0	0	0	1	1
Mississippi	5	1	396.9%	NM	0	4	1	0	0	NM	0	2	1	0	0	2	1	0	0	0	0	0	0	2	0
Tennessee	37	31	21.0%	24	17	13	14	0	0	23	16	14	14	NM	NM	13	13	0	0	0	0	0	0	0	0
West South Central	477	266	79.5%	310	157	167	109	2	1	308	155	46	33	0	NM	45	32	0	0	0	0	0	0	122	77
Arkansas	7	7	1.9%	6	6	2	1	NM	0	5	6	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Louisiana	46	40	13.5%	0	0	46	40	0	0	0	0	3	3	0	0	3	3	0	0	0	0	0	0	43	38
Oklahoma	5	2	111.8%	1	1	4	1	1	1	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	1
Texas	419	216	94.1%	303	149	116	66	0	0	303	149	40	29	0	NM	40	29	0	0	0	0	0	0	76	38
Mountain	2,916	2,006	45.4%	2,245	1,414	671	592	163	168	2,062	1,222	225	237	20	24	205	213	41	47	0	NM	41	46	425	332
Arizona	1,160	1,021	13.6%	769	661	391	360	111	109	655	548	123	126	4	4	119	122	33	39	0	0	33	39	239	199
Colorado	274	185	48.4%	166	87	108	98	0	0	164	84	48	48	NM	NM	45	44	1	0	0	0	1	0	62	53
Idaho	60	2	NM	58	0	2	2	0	0	58	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Montana	3	2	33.0%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Nevada	742	504	47.4%	671	433	71	71	8	7	650	409	23	36	14	16	9	20	5	6	0	NM	5	5	57	46
New Mexico	256	191	33.7%	210	154	46	37	45	52	166	102	19	18	0	0	19	18	0	0	0	0	0	0	26	19
Utah	420	101	316.9%	370	79	49	22	0	0	370	79	11	7	0	0	11	7	1	1	0	0	1	1	36	13
Wyoming	1	1	23.8%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	5,866	4,627	26.8%	3,812	3,023	2,054	1,604	92	106	3,696	2,889	502	410	22	26	480	384	326	250	2	NM	324	248	1,250	972
California	5,783	4,587	26.1%	3,772	3,014	2,011	1,573	90	105	3,657	2,881	490	400	22	26	467	374	324	249	2	NM	322	247	1,222	951
Oregon	66	26	149.7%	40	9	25	17	NM	NM	39	8	10	7	0	0	10	7	2	1	0	0	2	1	14	9
Washington	18	14	28.4%	0	0	18	14	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	15	12
Pacific Noncontiguous	223	178	25.6%	20	17	203	160	10	10	9	7	72	54	0	0	72	54	1	0	0	0	1	0	130	105
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	223	178	25.5%	20	17	203	160	10	10	9	7	72	54	0	0	72	54	1	0	0	0	1	0	130	105
U.S. Total	13,505	9,879	36.7%	8,720	6,087	4,786	3,792	634	419	7,984	5,547	1,807	1,599	97	114	1,709	1,485	474	363	5	7	469	357	2,608	1,950

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

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, March 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	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	6	-100.0%	0	6	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	6	-100.0%	0	6	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	90	67	33.1%	0	0	90	67	0	0	0	0
Arizona	79	52	52.4%	0	0	79	52	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	11	16	-31.1%	0	0	11	16	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	207	185	12.2%	0	0	207	185	0	0	0	0
California	207	185	12.2%	0	0	207	185	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	297	257	15.2%	0	6	297	252	0	0	0	0

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

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

by State, by Sector, Year-to-Date through March 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	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	13	-98.8%	0	13	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	13	-98.8%	0	13	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	153	158	-2.8%	0	0	153	158	0	0	0	0
Arizona	136	122	11.4%	0	0	136	122	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	17	36	-51.9%	0	0	17	36	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	369	413	-10.7%	0	0	369	413	0	0	0	0
California	369	413	-10.7%	0	0	369	413	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	522	584	-10.6%	0	13	522	571	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-March 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
Year to Date					
2015	196,887	140,804	55,022	54	1,007
2016	152,472	114,262	37,248	43	919
2017	160,612	118,637	41,109	40	826
Rolling 12 Months Ending in March					
2016	695,179	512,964	178,152	152	3,911
2017	686,145	502,545	180,172	144	3,284

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-March 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
Year to Date					
2015	4,648	289	540	223	3,595
2016	4,269	301	434	186	3,349
2017	3,543	310	416	127	2,689
Rolling 12 Months Ending in March					
2016	16,254	1,043	1,874	597	12,740
2017	13,538	1,071	1,715	486	10,266

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-March 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
Year to Date					
2015	201,534	141,094	55,562	277	4,602
2016	156,741	114,563	37,682	228	4,268
2017	164,155	118,947	41,525	167	3,516
Rolling 12 Months Ending in March					
2016	711,433	514,007	180,026	750	16,651
2017	699,683	503,615	181,887	631	13,550

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.
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-March 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
Year to Date					
2015	13,667	6,852	6,452	144	220
2016	5,807	4,131	1,518	32	126
2017	5,192	4,013	982	65	131
Rolling 12 Months Ending in March					
2016	21,066	15,842	4,539	NM	547
2017	20,610	15,550	4,306	165	589

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

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	1,180	55	362	183	580
2016	650	12	241	39	359
2017	588	9	217	79	283
Rolling 12 Months Ending in March					
2016	2,612	19	1,034	NM	1,422
2017	2,472	16	991	167	1,298

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

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	14,847	6,906	6,814	327	800
2016	6,458	4,143	1,759	71	485
2017	5,780	4,022	1,200	144	414
Rolling 12 Months Ending in March					
2016	23,678	15,861	5,573	NM	1,969
2017	23,081	15,567	5,296	331	1,887

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2007-March 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
Year to Date					
2015	1,090	839	173	1	78
2016	1,036	856	120	1	60
2017	904	733	122	1	48
Rolling 12 Months Ending in March					
2016	3,990	3,137	616	2	235
2017	4,143	3,308	603	1	232

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

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	309	2	27	6	274
2016	274	1	29	6	238
2017	227	1	27	5	194
Rolling 12 Months Ending in March					
2016	1,110	8	111	16	974
2017	969	2	103	8	856

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

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	1,399	840	200	7	351
2016	1,310	857	149	7	298
2017	1,131	734	150	6	242
Rolling 12 Months Ending in March					
2016	5,100	3,145	727	18	1,210
2017	5,112	3,310	705	9	1,088

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-March 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
Year to Date					
2015	2,157,874	1,026,721	967,648	15,065	148,441
2016	2,295,526	1,122,725	1,000,611	16,290	155,900
2017	1,963,208	953,546	833,732	17,580	158,350
Rolling 12 Months Ending in March					
2016	10,154,227	4,841,259	4,609,647	71,317	632,005
2017	10,067,872	4,876,335	4,475,202	69,930	646,404

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 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	232,399	1,709	72,321	12,169	146,200
2016	243,504	3,189	73,377	12,931	154,007
2017	248,494	2,877	66,358	13,833	165,427
Rolling 12 Months Ending in March					
2016	946,203	9,541	284,427	47,049	605,187
2017	961,913	10,914	277,685	48,848	624,466

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	2,390,273	1,028,429	1,039,969	27,234	294,641
2016	2,539,030	1,125,914	1,073,988	29,220	309,908
2017	2,211,703	956,422	900,090	31,413	323,777
Rolling 12 Months Ending in March					
2016	11,100,431	4,850,800	4,894,074	118,366	1,237,191
2017	11,029,785	4,887,250	4,752,887	118,778	1,270,870

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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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-March 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
Year to Date					
2015	65,241	6,247	51,808	6,127	1,060
2016	82,020	7,514	65,717	7,389	1,400
2017	68,343	6,382	55,660	5,010	1,291
Rolling 12 Months Ending in March					
2016	299,309	26,523	241,290	26,512	4,983
2017	315,840	29,374	258,375	22,960	5,131

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

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	338	1	129	126	83
2016	1,403	1	787	320	295
2017	673	1	432	135	106
Rolling 12 Months Ending in March					
2016	2,587	3	1,301	709	574
2017	3,503	5	2,026	782	690

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

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	65,579	6,248	51,936	6,253	1,142
2016	83,423	7,515	66,503	7,710	1,695
2017	69,016	6,383	56,092	5,145	1,396
Rolling 12 Months Ending in March					
2016	301,895	26,526	242,592	27,222	5,556
2017	319,342	29,379	260,401	23,742	5,821

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2007-March 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
Year to Date					
2015	3,857	82	3,222	551	1
2016	3,826	102	3,171	549	3
2017	4,005	89	3,349	567	0
Rolling 12 Months Ending in March					
2016	16,599	472	13,745	2,373	10
2017	16,246	450	13,534	2,257	4

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	499	0	174	273	52
2016	531	0	214	276	40
2017	551	0	167	333	52
Rolling 12 Months Ending in March					
2016	2,017	0	696	1,130	192
2017	1,995	0	611	1,206	178

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	4,356	82	3,396	825	53
2016	4,357	102	3,385	825	44
2017	4,556	89	3,516	900	52
Rolling 12 Months Ending in March					
2016	18,617	472	14,441	3,502	201
2017	18,240	450	14,144	3,463	182

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

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2007-March 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
Year to Date					
2015	103,067	11,236	44,474	145	47,212
2016	99,668	11,770	41,769	147	45,982
2017	96,060	10,832	38,910	176	46,141
Rolling 12 Months Ending in March					
2016	403,251	44,453	168,683	506	189,610
2017	378,010	42,169	150,412	701	184,729

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2007-March 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
Year to Date					
2015	237,369	2,632	5,319	1,079	228,339
2016	233,502	2,628	4,866	1,156	224,852
2017	234,312	2,395	5,344	1,210	225,363
Rolling 12 Months Ending in March					
2016	940,095	9,347	18,747	3,791	908,210
2017	925,595	8,236	17,494	4,375	895,490

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	253	66	283.0%	6	2	246	63	0	0	NM	NM
Connecticut	28	0	--	0	0	28	0	0	0	0	0
Maine	2	1	53.0%	0	0	1	1	0	0	NM	0
Massachusetts	217	62	247.0%	0	0	217	62	0	0	0	NM
New Hampshire	6	2	167.0%	6	2	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	2,099	1,383	52.0%	0	0	2,083	1,364	0	0	16	19
New Jersey	49	39	26.0%	0	0	49	39	0	0	0	0
New York	33	15	128.0%	0	0	26	9	0	0	7	5
Pennsylvania	2,016	1,330	52.0%	0	0	2,007	1,316	0	0	9	14
East North Central	11,431	8,994	27.0%	6,711	5,882	4,648	3,040	2	4	70	67
Illinois	2,778	2,112	32.0%	216	158	2,506	1,908	NM	1	56	44
Indiana	2,618	2,561	2.2%	2,544	2,355	73	204	1	1	0	NM
Michigan	1,964	1,661	18.0%	1,940	1,635	21	18	0	2	NM	6
Ohio	2,731	1,639	67.0%	682	725	2,048	909	0	0	NM	5
Wisconsin	1,340	1,021	31.0%	1,330	1,008	0	0	0	0	11	12
West North Central	8,683	7,472	16.0%	8,568	7,346	0	1	3	5	111	120
Iowa	817	821	-0.5%	768	755	0	0	2	3	46	63
Kansas	838	769	8.9%	838	769	0	0	0	0	0	0
Minnesota	994	923	7.8%	964	900	0	0	0	0	30	22
Missouri	3,130	2,472	27.0%	3,129	2,468	0	1	1	2	0	NM
Nebraska	967	843	15.0%	938	814	0	0	0	0	30	28
North Dakota	1,817	1,556	17.0%	1,812	1,550	0	0	0	0	NM	6
South Dakota	120	89	35.0%	120	89	0	0	0	0	0	0
South Atlantic	7,049	6,219	13.0%	6,533	5,427	499	765	2	2	14	25
Delaware	13	0	--	0	0	13	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,372	911	51.0%	1,370	898	0	10	0	0	2	3
Georgia	1,279	1,062	20.0%	1,276	1,058	0	0	0	0	3	4
Maryland	159	453	-65.0%	0	0	157	451	0	0	2	2
North Carolina	1,125	493	128.0%	1,117	488	4	NM	1	1	3	3
South Carolina	523	648	-19.0%	522	644	0	0	0	0	1	5
Virginia	435	668	-35.0%	406	656	23	5	1	NM	3	5
West Virginia	2,144	1,984	8.0%	1,841	1,683	302	298	0	0	0	3
East South Central	4,717	4,387	7.5%	4,405	4,095	299	273	0	0	13	20
Alabama	1,273	1,221	4.2%	1,271	1,219	0	0	0	0	1	2
Kentucky	2,242	2,269	-1.2%	2,242	2,269	0	0	0	0	0	0
Mississippi	358	281	27.0%	59	8	299	273	0	0	0	0
Tennessee	846	617	37.0%	834	599	0	0	0	0	11	18
West South Central	7,763	5,309	46.0%	3,643	3,125	4,106	2,170	0	0	14	14
Arkansas	736	745	-1.2%	723	539	12	205	0	0	1	1
Louisiana	391	505	-23.0%	108	483	283	22	0	0	0	0
Oklahoma	826	664	24.0%	762	590	52	61	0	0	13	13
Texas	5,810	3,395	71.0%	2,050	1,512	3,760	1,882	0	0	0	0
Mountain	6,815	5,913	15.0%	6,063	5,144	739	738	0	0	13	30
Arizona	1,131	937	21.0%	1,131	937	0	0	0	0	0	0
Colorado	1,353	1,159	17.0%	1,352	1,158	0	NM	0	0	1	NM
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	619	659	-6.0%	25	NM	593	646	0	0	0	NM
Nevada	83	56	48.0%	20	17	63	39	0	0	0	0
New Mexico	1,048	626	67.0%	1,048	626	0	0	0	0	0	0
Utah	711	729	-2.5%	675	695	36	NM	0	0	0	13
Wyoming	1,870	1,746	7.1%	1,812	1,699	47	NM	0	0	11	15
Pacific Contiguous	6	7	-11.0%	0	0	0	0	0	0	6	7
California	6	6	-3.0%	0	0	0	0	0	0	6	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	1	-83.0%	0	0	0	0	0	0	0	1
Pacific Noncontiguous	98	106	-7.7%	NM	22	76	79	NM	4	0	NM
Alaska	31	43	-28.0%	NM	22	NM	17	NM	4	0	0
Hawaii	67	63	5.9%	0	0	67	62	0	0	0	NM
U.S. Total	48,915	39,857	23.0%	35,948	31,044	12,697	8,495	12	14	259	304

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	610	482	27.0%	46	68	561	412	0	0	NM	2
Connecticut	54	38	40.0%	0	0	54	38	0	0	0	0
Maine	7	5	38.0%	0	0	4	4	0	0	NM	1
Massachusetts	503	371	36.0%	0	0	503	370	0	0	0	1
New Hampshire	46	68	-32.0%	46	68	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,051	6,775	-11.0%	0	0	6,004	6,715	0	0	47	60
New Jersey	139	144	-3.0%	0	0	139	144	0	0	0	0
New York	142	215	-34.0%	0	0	124	199	0	0	18	16
Pennsylvania	5,770	6,416	-10.0%	0	0	5,741	6,372	0	0	29	44
East North Central	36,070	33,684	7.1%	21,733	20,872	14,122	12,584	6	10	209	218
Illinois	8,589	7,980	7.6%	615	448	7,810	7,387	5	4	160	141
Indiana	8,924	8,752	2.0%	8,571	8,068	352	682	1	3	0	0
Michigan	5,935	6,066	-2.2%	5,857	5,982	66	58	0	4	12	22
Ohio	7,541	6,591	14.0%	1,643	2,117	5,895	4,458	0	0	3	16
Wisconsin	5,081	4,295	18.0%	5,047	4,257	0	0	0	0	33	38
West North Central	29,165	28,235	3.3%	28,780	27,848	0	3	16	15	370	370
Iowa	3,280	3,421	-4.1%	3,113	3,223	0	0	8	8	160	190
Kansas	3,141	3,155	-0.4%	3,141	3,155	0	0	0	0	0	0
Minnesota	3,622	3,460	4.7%	3,523	3,389	0	0	4	1	95	70
Missouri	9,764	9,041	8.0%	9,759	9,030	0	3	4	5	0	3
Nebraska	3,312	3,243	2.1%	3,214	3,156	0	0	0	0	98	88
North Dakota	5,686	5,547	2.5%	5,669	5,528	0	0	0	0	17	19
South Dakota	360	368	-2.2%	360	368	0	0	0	0	0	0
South Atlantic	21,033	23,377	-10.0%	18,921	20,308	2,055	2,983	7	7	50	79
Delaware	28	99	-72.0%	0	0	28	99	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,009	3,103	29.0%	4,000	3,083	0	10	0	0	9	10
Georgia	3,319	4,061	-18.0%	3,306	4,049	0	0	0	0	12	12
Maryland	702	1,436	-51.0%	0	0	695	1,430	0	0	6	5
North Carolina	2,901	3,075	-5.7%	2,872	3,051	17	NM	4	5	9	10
South Carolina	1,726	2,151	-20.0%	1,724	2,136	0	0	0	0	2	15
Virginia	1,381	2,064	-33.0%	1,308	1,981	59	66	3	2	11	16
West Virginia	6,967	7,388	-5.7%	5,711	6,009	1,257	1,368	0	0	0	11
East South Central	15,282	15,821	-3.4%	14,573	14,948	668	816	0	0	41	57
Alabama	3,909	3,681	6.2%	3,903	3,674	0	0	0	0	5	7
Kentucky	7,481	8,063	-7.2%	7,481	8,063	0	0	0	0	0	0
Mississippi	951	1,115	-15.0%	283	299	668	816	0	0	0	0
Tennessee	2,941	2,962	-0.7%	2,906	2,912	0	0	0	0	36	50
West South Central	28,190	21,899	29.0%	13,893	11,279	14,254	10,575	0	0	43	44
Arkansas	3,651	2,819	30.0%	3,308	2,188	339	627	0	0	3	4
Louisiana	2,064	1,920	7.5%	1,207	1,518	857	402	0	0	0	0
Oklahoma	2,591	2,543	1.9%	2,366	2,214	185	289	0	0	39	40
Texas	19,884	14,617	36.0%	7,012	5,359	12,873	9,258	0	0	0	0
Mountain	23,057	21,396	7.8%	20,301	18,661	2,712	2,669	0	0	45	66
Arizona	4,016	3,498	15.0%	4,016	3,498	0	0	0	0	0	0
Colorado	4,311	3,900	11.0%	4,309	3,895	0	4	0	0	2	1
Idaho	3	4	-21.0%	0	0	0	0	0	0	3	4
Montana	2,398	2,397	0.0%	76	NM	2,320	2,346	0	0	2	1
Nevada	296	232	27.0%	151	114	145	118	0	0	0	0
New Mexico	2,992	2,293	30.0%	2,992	2,293	0	0	0	0	0	0
Utah	2,852	2,943	-3.1%	2,742	2,847	110	84	0	0	0	13
Wyoming	6,190	6,128	1.0%	6,016	5,965	137	117	0	0	37	47
Pacific Contiguous	900	461	95.0%	334	185	546	255	0	0	20	21
California	18	19	-4.2%	0	0	0	0	0	0	18	19
Oregon	334	185	81.0%	334	185	0	0	0	0	0	0
Washington	547	257	113.0%	0	0	546	255	0	0	2	2
Pacific Noncontiguous	254	343	-26.0%	56	93	186	237	11	11	0	2
Alaska	103	158	-35.0%	56	93	36	53	11	11	0	0
Hawaii	151	185	-19.0%	0	0	151	183	0	0	0	2
U.S. Total	160,612	152,472	5.3%	118,637	114,262	41,109	37,248	40	43	826	919

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	NM	23	NM	NM	6	NM	NM	9	NM	2	NM
Connecticut	16	NM	NM	1	NM	12	NM	NM	NM	1	NM
Maine	8	6	24.0%	0	NM	6	5	1	NM	NM	NM
Massachusetts	NM	NM	NM	NM	2	NM	NM	3	NM	0	NM
New Hampshire	3	NM	NM	2	NM	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	1	1	NM	NM	2	NM	0	0
Vermont	1	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	NM	77	NM	NM	NM	NM	61	NM	NM	6	6
New Jersey	NM	14	NM	NM	NM	NM	14	0	NM	0	NM
New York	NM	NM	NM	NM	NM	NM	NM	NM	NM	4	4
Pennsylvania	37	39	-5.2%	0	NM	34	37	1	NM	2	NM
East North Central	63	87	-28.0%	35	55	26	31	1	NM	2	1
Illinois	9	12	-23.0%	1	NM	8	11	0	0	0	0
Indiana	11	20	-44.0%	10	19	0	NM	0	NM	1	1
Michigan	NM	18	NM	NM	18	0	0	0	NM	1	NM
Ohio	28	32	-12.0%	10	12	18	20	0	NM	0	NM
Wisconsin	NM	6	NM	NM	5	0	0	0	NM	NM	NM
West North Central	49	34	45.0%	49	33	1	NM	0	NM	0	NM
Iowa	NM	7	NM	NM	7	NM	NM	0	NM	0	NM
Kansas	9	6	65.0%	9	6	0	0	0	0	0	0
Minnesota	NM	2	NM	NM	2	0	NM	0	NM	0	NM
Missouri	10	11	-7.5%	10	11	0	NM	0	NM	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	9	7	34.0%	9	7	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	271	185	47.0%	229	111	33	66	4	NM	6	7
Delaware	NM	NM	NM	0	NM	NM	NM	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	113	51	120.0%	112	50	1	NM	0	0	NM	1
Georgia	16	11	46.0%	12	9	NM	NM	0	NM	NM	2
Maryland	15	22	-33.0%	NM	NM	14	20	0	NM	0	0
North Carolina	48	25	96.0%	41	23	6	NM	0	NM	NM	NM
South Carolina	NM	9	NM	NM	5	0	NM	0	NM	3	3
Virginia	NM	53	NM	NM	9	6	44	3	NM	NM	NM
West Virginia	9	14	-36.0%	9	14	0	0	0	0	0	0
East South Central	29	37	-22.0%	27	36	NM	NM	0	NM	NM	NM
Alabama	6	10	-37.0%	5	9	NM	NM	0	0	NM	NM
Kentucky	14	15	-10.0%	14	15	0	0	0	0	0	0
Mississippi	2	1	70.0%	2	1	0	0	0	0	0	0
Tennessee	7	11	-35.0%	7	11	NM	NM	0	NM	0	NM
West South Central	18	25	-29.0%	NM	23	11	2	0	NM	NM	NM
Arkansas	NM	5	NM	NM	5	1	0	0	0	NM	0
Louisiana	NM	5	NM	NM	5	0	0	0	0	0	0
Oklahoma	3	4	-40.0%	2	4	0	0	0	NM	0	NM
Texas	13	11	18.0%	NM	9	11	2	0	NM	0	NM
Mountain	32	37	-15.0%	26	35	5	2	0	NM	0	NM
Arizona	NM	17	NM	NM	17	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	2	NM	NM	NM	4	2	0	0	0	0
Nevada	1	1	-1.6%	0	1	1	0	0	0	0	0
New Mexico	NM	10	NM	NM	10	0	0	0	0	0	NM
Utah	7	3	111.0%	7	3	0	NM	0	0	0	NM
Wyoming	5	3	48.0%	5	3	0	0	0	0	0	NM
Pacific Contiguous	9	7	14.0%	NM	5	1	NM	0	NM	2	1
California	NM	6	NM	NM	5	0	NM	0	NM	1	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	2	1	20.0%	NM	NM	0	NM	0	NM	1	1
Pacific Noncontiguous	1,037	854	21.0%	942	732	71	107	2	1	22	13
Alaska	164	105	56.0%	154	99	0	0	1	NM	8	5
Hawaii	873	749	17.0%	788	634	71	107	0	0	14	8
U.S. Total	1,652	1,367	21.0%	1,341	1,045	249	284	21	NM	42	31

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	239	315	-24.0%	21	28	183	268	30	12	5	7
Connecticut	48	36	33.0%	3	3	42	27	NM	NM	1	NM
Maine	43	144	-70.0%	0	NM	38	138	2	NM	4	5
Massachusetts	121	110	9.5%	NM	14	100	92	16	NM	0	NM
New Hampshire	13	8	58.0%	9	5	NM	NM	4	2	0	NM
Rhode Island	NM	16	NM	4	5	NM	10	5	NM	0	0
Vermont	2	NM	NM	2	NM	0	0	0	NM	0	0
Middle Atlantic	396	755	-48.0%	105	260	258	465	NM	10	18	20
New Jersey	NM	87	NM	NM	NM	NM	85	0	NM	0	NM
New York	215	525	-59.0%	105	258	NM	246	NM	8	12	13
Pennsylvania	134	142	-5.8%	0	NM	125	134	3	NM	6	6
East North Central	199	272	-27.0%	121	175	71	90	1	2	6	6
Illinois	27	42	-36.0%	2	4	24	37	0	1	0	0
Indiana	41	60	-32.0%	37	56	0	NM	0	NM	3	4
Michigan	36	57	-38.0%	33	56	0	0	1	1	2	1
Ohio	79	95	-16.0%	32	43	47	51	0	NM	1	1
Wisconsin	NM	19	NM	NM	16	0	2	0	NM	NM	0
West North Central	152	119	28.0%	149	114	2	3	1	NM	0	1
Iowa	31	26	21.0%	31	25	0	1	0	NM	0	NM
Kansas	31	23	31.0%	31	23	0	0	0	0	0	0
Minnesota	NM	11	NM	NM	7	1	3	1	NM	0	0
Missouri	29	38	-24.0%	29	38	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	31	15	103.0%	31	15	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	898	1,264	-29.0%	713	848	159	386	11	NM	15	28
Delaware	14	67	-80.0%	0	NM	13	65	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	233	143	63.0%	229	134	2	NM	0	0	NM	4
Georgia	54	85	-37.0%	36	41	12	33	1	1	5	10
Maryland	51	153	-67.0%	1	5	49	146	0	NM	0	1
North Carolina	189	214	-12.0%	172	158	15	53	0	NM	2	NM
South Carolina	76	94	-19.0%	70	82	1	NM	NM	NM	5	10
Virginia	225	464	-51.0%	148	382	66	81	10	NM	1	NM
West Virginia	56	44	29.0%	56	43	0	0	0	0	0	0
East South Central	125	150	-16.0%	117	132	4	11	0	NM	4	7
Alabama	23	40	-42.0%	15	23	4	11	0	0	NM	6
Kentucky	53	49	8.2%	53	49	0	0	0	0	0	0
Mississippi	7	12	-42.0%	6	11	0	0	0	0	0	0
Tennessee	43	49	-13.0%	42	49	0	NM	0	NM	0	NM
West South Central	74	73	1.2%	33	57	39	13	0	NM	1	2
Arkansas	23	18	27.0%	NM	16	18	1	0	0	NM	1
Louisiana	NM	13	NM	NM	10	0	3	0	0	0	0
Oklahoma	7	9	-17.0%	7	8	0	0	0	NM	0	1
Texas	35	32	7.4%	13	23	21	9	0	NM	1	NM
Mountain	113	98	16.0%	99	90	14	8	0	NM	0	NM
Arizona	29	26	12.0%	29	26	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	12	7	79.0%	NM	NM	12	7	0	0	0	0
Nevada	2	4	-57.0%	0	3	2	1	0	0	0	0
New Mexico	27	32	-15.0%	27	32	0	0	0	0	0	NM
Utah	18	9	106.0%	17	8	0	NM	0	0	0	NM
Wyoming	19	15	28.0%	19	15	0	0	0	0	0	NM
Pacific Contiguous	45	24	89.0%	NM	17	7	4	1	NM	12	4
California	26	18	45.0%	NM	14	1	3	0	NM	8	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	14	6	146.0%	NM	NM	6	1	0	NM	4	3
Pacific Noncontiguous	2,950	2,737	7.8%	2,630	2,411	246	270	6	4	69	52
Alaska	494	351	41.0%	468	331	0	0	4	2	22	19
Hawaii	2,456	2,386	2.9%	2,162	2,080	246	270	2	3	47	33
U.S. Total	5,192	5,807	-11.0%	4,013	4,131	982	1,518	65	32	131	126

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	NM	NM	0	0	0	0	0	0	NM	NM
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	62	96	-36.0%	30	43	29	49	0	0	2	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	17	-100.0%	0	17	0	0	0	0	0	0
Michigan	30	27	13.0%	28	23	0	0	0	0	2	3
Ohio	29	49	-40.0%	0	0	29	49	0	0	0	0
Wisconsin	2	3	-35.0%	2	2	0	0	0	0	0	1
West North Central	4	NM	NM	0	0	0	0	0	0	3	NM
Iowa	4	NM	NM	0	0	0	0	0	0	3	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	NM	78	NM	0	75	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	75	-100.0%	0	75	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	28	42	-34.0%	28	42	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	28	42	-34.0%	28	42	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	164	129	27.0%	157	123	0	0	0	0	7	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	160	126	28.0%	157	123	0	0	0	0	4	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	3	-5.0%	0	0	0	0	0	0	3	3
Mountain	13	15	-8.8%	0	0	13	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	13	15	-8.8%	0	0	13	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	276	366	-25.0%	215	283	43	63	0	0	19	20

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	12	13	-5.0%	0	0	0	0	0	0	12	13
New Jersey	2	NM	NM	0	0	0	0	0	0	2	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	10	10	1.1%	0	0	0	0	0	0	10	10
East North Central	192	261	-26.0%	106	174	81	75	0	0	5	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	124	-100.0%	0	124	0	0	0	0	0	0
Michigan	105	54	95.0%	100	45	0	1	0	0	5	8
Ohio	81	74	9.3%	0	0	81	74	0	0	0	1
Wisconsin	6	8	-32.0%	6	4	0	0	0	0	0	4
West North Central	7	8	-14.0%	0	0	0	0	1	1	6	7
Iowa	7	8	-14.0%	0	0	0	0	1	1	6	7
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	78	197	-61.0%	70	191	0	0	0	0	8	6
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	70	191	-63.0%	70	191	0	0	0	0	0	0
Georgia	8	6	17.0%	0	0	0	0	0	0	8	6
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	79	96	-18.0%	79	96	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	79	96	-18.0%	79	96	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	495	416	19.0%	479	396	0	0	0	0	17	21
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	486	403	21.0%	479	396	0	0	0	0	7	8
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	13	-30.0%	0	0	0	0	0	0	9	13
Mountain	41	44	-7.7%	0	0	41	44	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	44	-7.7%	0	0	41	44	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	904	1,036	-13.0%	733	856	122	120	1	1	48	60

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, March 2017 and March 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	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	30,371	26,863	13.0%	NM	174	28,596	25,151	NM	803	799	735
Connecticut	8,869	9,667	-8.3%	34	0	8,052	8,898	NM	340	NM	428
Maine	NM	823	NM	0	0	NM	607	23	NM	NM	189
Massachusetts	15,106	11,046	37.0%	NM	172	14,415	10,402	NM	367	176	105
New Hampshire	1,502	782	92.0%	2	1	1,463	749	24	NM	13	NM
Rhode Island	3,380	4,545	-26.0%	0	0	3,346	4,496	34	NM	0	0
Vermont	3	NM	NM	2	1	0	0	2	NM	0	0
Middle Atlantic	87,270	92,104	-5.2%	8,308	7,309	76,912	82,791	NM	936	1,130	1,067
New Jersey	21,551	23,761	-9.3%	97	NM	20,969	23,285	NM	151	NM	269
New York	33,410	31,630	5.6%	8,209	7,250	24,363	23,487	NM	682	NM	210
Pennsylvania	32,309	36,713	-12.0%	2	NM	31,580	36,019	147	NM	NM	588
East North Central	63,839	75,980	-16.0%	28,526	33,173	31,679	40,251	941	860	2,693	1,696
Illinois	8,970	12,337	-27.0%	NM	1,398	7,560	10,372	NM	276	NM	292
Indiana	13,351	13,735	-2.8%	9,749	10,375	2,453	2,974	64	87	1,085	299
Michigan	17,999	18,721	-3.9%	5,580	5,349	11,297	12,144	292	323	831	904
Ohio	15,517	18,078	-14.0%	5,769	4,009	9,437	13,940	212	NM	100	NM
Wisconsin	8,001	13,108	-39.0%	6,861	12,042	933	821	32	63	NM	182
West North Central	12,171	11,870	2.5%	10,104	9,835	NM	1,326	290	316	400	393
Iowa	1,583	1,722	-8.0%	1,415	1,453	NM	0	46	NM	122	211
Kansas	1,357	1,009	35.0%	1,289	947	0	0	0	0	68	NM
Minnesota	4,478	5,257	-15.0%	3,630	4,197	NM	811	148	168	153	81
Missouri	3,026	2,553	19.0%	2,047	1,926	NM	515	95	90	54	NM
Nebraska	NM	157	NM	NM	150	0	0	1	NM	0	NM
North Dakota	510	644	-21.0%	506	634	0	0	0	0	4	NM
South Dakota	NM	528	NM	NM	528	0	0	0	0	0	0
South Atlantic	187,294	189,777	-1.3%	152,968	152,082	30,778	34,999	657	630	2,891	2,065
Delaware	4,444	4,733	-6.1%	0	NM	3,394	3,827	0	0	NM	876
District of Columbia	71	NM	NM	0	0	0	0	71	NM	0	0
Florida	88,960	91,181	-2.4%	84,002	82,628	4,262	7,944	13	NM	683	587
Georgia	27,009	29,596	-8.7%	19,146	22,880	7,460	6,461	0	0	403	255
Maryland	5,164	4,597	12.0%	0	0	4,563	4,020	557	537	44	40
North Carolina	24,371	28,241	-14.0%	21,236	25,827	3,088	2,326	7	7	40	80
South Carolina	9,692	9,852	-1.6%	7,774	4,979	1,798	4,821	0	NM	119	50
Virginia	26,912	20,445	32.0%	20,557	15,687	6,012	4,580	8	NM	335	171
West Virginia	671	1,078	-38.0%	252	51	NM	1,021	0	0	217	6
East South Central	72,969	71,090	2.6%	48,878	45,947	22,830	23,908	NM	NM	1,142	1,121
Alabama	30,609	31,216	-1.9%	10,244	9,709	19,799	20,837	0	0	566	670
Kentucky	4,919	6,178	-20.0%	4,165	5,500	586	526	0	0	NM	152
Mississippi	28,706	26,573	8.0%	26,076	23,827	2,445	2,545	0	NM	184	197
Tennessee	8,735	7,122	23.0%	8,393	6,911	0	0	NM	NM	223	102
West South Central	163,455	204,375	-20.0%	46,667	67,081	79,550	96,944	635	632	36,603	39,718
Arkansas	9,180	12,294	-25.0%	2,094	4,715	6,938	7,426	0	NM	148	152
Louisiana	36,144	42,978	-16.0%	18,057	20,966	3,126	5,680	155	NM	14,805	16,190
Oklahoma	12,259	17,758	-31.0%	7,648	13,260	4,474	4,406	0	NM	137	85
Texas	105,873	131,344	-19.0%	18,868	28,141	65,012	79,432	480	480	21,513	23,291
Mountain	37,192	50,152	-26.0%	30,326	39,656	5,388	9,243	392	NM	1,086	1,013
Arizona	7,668	14,208	-46.0%	6,578	10,061	970	4,073	120	NM	0	0
Colorado	5,821	7,153	-19.0%	4,585	6,052	1,212	1,083	0	0	25	NM
Idaho	1,845	1,791	3.0%	1,076	926	659	789	39	0	NM	76
Montana	375	553	-32.0%	333	503	36	NM	0	0	6	0
Nevada	12,960	15,073	-14.0%	12,071	14,062	674	816	57	NM	157	NM
New Mexico	5,330	6,052	-12.0%	3,579	3,623	1,648	2,354	98	NM	5	0
Utah	2,804	4,881	-43.0%	2,049	4,326	189	NM	77	NM	488	425
Wyoming	388	441	-12.0%	NM	NM	0	NM	0	0	333	336
Pacific Contiguous	44,980	51,044	-12.0%	17,836	22,521	20,838	23,181	1,295	881	5,011	4,460
California	36,072	39,542	-8.8%	13,131	16,631	16,796	17,707	1,253	818	4,892	4,386
Oregon	3,669	7,218	-49.0%	2,028	3,149	1,555	3,997	NM	NM	NM	16
Washington	5,238	4,285	22.0%	2,678	2,741	2,487	1,478	9	NM	NM	58
Pacific Noncontiguous	1,377	1,836	-25.0%	1,294	1,745	0	0	0	NM	83	NM
Alaska	1,377	1,836	-25.0%	1,294	1,745	0	0	0	NM	83	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	700,918	775,091	-9.6%	345,125	379,524	297,948	337,795	6,008	5,413	51,837	52,359

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	88,404	81,844	8.0%	NM	261	83,406	77,167	2,161	2,217	2,351	2,199
Connecticut	28,875	31,303	-7.8%	99	0	26,507	29,016	NM	1,015	1,282	1,272
Maine	3,990	5,575	-28.0%	0	0	3,383	4,919	73	NM	NM	577
Massachusetts	42,335	31,165	36.0%	NM	259	40,506	29,675	NM	917	500	315
New Hampshire	3,554	4,186	-15.0%	4	1	3,457	4,089	59	NM	34	NM
Rhode Island	9,642	9,613	0.3%	0	0	9,553	9,467	89	146	0	0
Vermont	8	NM	NM	4	1	0	0	4	NM	0	0
Middle Atlantic	239,041	266,567	-10.0%	22,924	23,614	210,498	237,001	2,534	2,784	3,084	3,168
New Jersey	51,548	66,732	-23.0%	166	NM	50,032	65,337	NM	448	916	797
New York	91,905	94,445	-2.7%	22,751	23,460	66,851	68,329	NM	2,029	590	626
Pennsylvania	95,588	105,390	-9.3%	7	NM	93,616	103,335	387	307	1,578	1,745
East North Central	165,548	209,957	-21.0%	70,242	91,586	84,729	110,843	2,828	2,584	7,748	4,944
Illinois	21,743	29,938	-27.0%	NM	1,984	18,624	26,243	NM	839	NM	872
Indiana	34,986	38,148	-8.3%	25,433	29,079	6,305	7,841	250	257	2,998	971
Michigan	44,857	51,786	-13.0%	12,883	14,835	28,425	33,445	893	981	2,657	2,524
Ohio	44,240	56,990	-22.0%	13,278	14,671	30,004	41,913	684	335	275	71
Wisconsin	19,721	33,095	-40.0%	17,711	31,017	1,372	1,400	102	172	538	506
West North Central	31,420	35,019	-10.0%	25,893	29,011	3,411	4,083	864	839	1,252	1,086
Iowa	4,581	5,355	-14.0%	3,853	4,576	NM	0	116	165	611	613
Kansas	2,899	2,243	29.0%	2,781	2,124	0	0	0	0	119	119
Minnesota	12,660	16,112	-21.0%	10,472	13,287	1,225	2,094	604	495	359	236
Missouri	7,090	7,366	-3.7%	4,605	5,136	2,187	1,988	141	178	157	NM
Nebraska	1,181	359	229.0%	1,178	338	0	0	3	NM	0	NM
North Dakota	1,562	2,031	-23.0%	1,557	1,998	0	0	0	0	6	34
South Dakota	1,447	1,553	-6.9%	1,447	1,553	0	0	0	0	0	0
South Atlantic	510,434	534,609	-4.5%	424,584	441,192	75,645	85,151	1,939	1,876	8,267	6,390
Delaware	10,363	10,897	-4.9%	4	NM	7,404	8,376	0	0	NM	2,456
District of Columbia	217	NM	NM	0	0	0	0	217	NM	0	0
Florida	236,470	258,219	-8.4%	223,845	238,506	10,489	17,589	40	NM	2,096	2,068
Georgia	83,259	84,341	-1.3%	62,885	67,203	19,311	16,322	0	0	1,063	816
Maryland	10,903	8,956	22.0%	0	0	9,144	7,228	1,630	1,620	128	108
North Carolina	68,234	76,526	-11.0%	59,635	69,493	8,459	6,793	16	16	124	224
South Carolina	26,184	27,279	-4.0%	22,510	20,230	3,321	6,920	1	NM	351	124
Virginia	73,487	66,703	10.0%	55,334	45,571	17,213	20,548	35	NM	906	567
West Virginia	1,318	1,527	-14.0%	370	125	NM	1,373	0	0	644	29
East South Central	180,470	218,706	-17.0%	120,436	143,927	56,219	70,981	NM	336	3,466	3,462
Alabama	79,944	95,311	-16.0%	29,944	30,557	48,183	62,666	0	0	1,817	2,087
Kentucky	9,569	15,707	-39.0%	8,286	14,518	791	734	0	0	493	455
Mississippi	71,936	87,480	-18.0%	64,158	79,282	7,226	7,581	15	NM	537	608
Tennessee	19,021	20,209	-5.9%	18,047	19,570	20	0	NM	327	619	312
West South Central	449,969	589,309	-24.0%	118,680	188,048	216,900	282,643	1,852	1,758	112,538	116,861
Arkansas	18,591	25,930	-28.0%	4,618	12,663	13,506	12,764	0	NM	467	497
Louisiana	99,855	129,789	-23.0%	45,908	63,639	6,516	14,611	445	425	46,986	51,113
Oklahoma	36,613	55,484	-34.0%	23,889	40,242	12,374	14,976	0	NM	350	258
Texas	294,910	378,106	-22.0%	44,265	71,503	184,504	240,291	1,407	1,320	64,735	64,992
Mountain	120,421	153,840	-22.0%	95,789	119,190	20,330	30,946	1,124	834	3,179	2,869
Arizona	22,689	42,190	-46.0%	17,911	28,592	4,441	13,340	336	NM	0	0
Colorado	19,153	20,862	-8.2%	15,448	17,277	3,638	3,527	0	0	67	NM
Idaho	6,094	7,201	-15.0%	3,456	3,816	2,225	3,109	116	0	297	277
Montana	1,110	1,767	-37.0%	920	1,608	169	NM	0	0	20	0
Nevada	42,153	47,476	-11.0%	38,196	43,573	3,359	3,213	155	NM	442	560
New Mexico	16,734	18,591	-10.0%	10,369	10,968	6,072	7,355	287	NM	7	NM
Utah	11,251	14,435	-22.0%	9,285	13,042	424	NM	229	NM	1,313	967
Wyoming	1,238	1,318	-6.1%	NM	316	0	NM	0	0	1,034	1,001
Pacific Contiguous	172,932	199,775	-13.0%	70,199	80,260	82,595	101,798	3,909	3,059	16,229	14,659
California	132,195	152,017	-13.0%	49,877	57,449	62,708	77,296	3,760	2,867	15,849	14,404
Oregon	21,059	26,821	-21.0%	9,194	10,410	11,603	16,179	NM	NM	138	65
Washington	19,678	20,937	-6.0%	11,128	12,402	8,283	8,323	24	23	242	189
Pacific Noncontiguous	4,569	5,900	-23.0%	4,313	5,635	0	0	20	NM	236	262
Alaska	4,569	5,900	-23.0%	4,313	5,635	0	0	20	NM	236	262
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,963,208	2,295,526	-14.0%	953,546	1,122,725	833,732	1,000,611	17,580	16,290	158,350	155,900

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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, March 2017 and March 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	926	1,032	-10.0%	0	0	877	966	49	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	NM	NM	0	0	NM	NM	0	0	0	0
Massachusetts	319	348	-8.3%	0	0	319	348	0	0	0	0
New Hampshire	105	165	-36.0%	0	0	NM	NM	49	NM	0	0
Rhode Island	359	364	-1.5%	0	0	359	364	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,561	5,029	-9.3%	0	0	4,318	4,742	NM	148	177	139
New Jersey	724	841	-14.0%	0	0	697	790	NM	NM	0	0
New York	1,320	1,454	-9.2%	0	0	1,320	1,454	0	0	0	0
Pennsylvania	2,516	2,734	-8.0%	0	0	2,301	2,498	NM	NM	177	139
East North Central	5,472	6,237	-12.0%	575	729	4,782	5,394	42	NM	72	80
Illinois	1,176	1,307	-10.0%	45	NM	1,132	1,269	0	0	0	0
Indiana	635	816	-22.0%	514	674	95	NM	0	0	NM	NM
Michigan	1,737	1,872	-7.2%	0	0	1,737	1,872	0	0	0	0
Ohio	914	1,069	-14.0%	0	0	914	1,069	0	0	0	0
Wisconsin	1,009	1,173	-14.0%	NM	NM	903	1,081	42	NM	47	NM
West North Central	875	1,082	-19.0%	307	303	568	779	0	0	0	0
Iowa	NM	267	NM	0	0	NM	267	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	315	339	-6.9%	NM	NM	243	267	0	0	0	0
Missouri	NM	181	NM	NM	NM	NM	NM	0	0	0	0
Nebraska	151	156	-3.1%	151	156	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,883	4,585	-15.0%	418	487	3,070	3,465	201	328	194	304
Delaware	NM	157	NM	0	0	NM	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	591	634	-6.8%	132	186	459	443	0	NM	0	NM
Georgia	357	437	-18.0%	0	0	321	372	0	0	36	NM
Maryland	207	235	-12.0%	0	0	NM	147	NM	NM	0	0
North Carolina	894	1,144	-22.0%	0	0	785	943	NM	201	0	0
South Carolina	454	536	-15.0%	278	294	NM	NM	0	0	144	207
Virginia	1,249	1,430	-13.0%	8	NM	1,217	1,386	NM	NM	0	0
West Virginia	0	NM	NM	0	0	0	NM	0	0	0	0
East South Central	398	487	-18.0%	NM	192	276	295	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	NM	206	NM	NM	192	20	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	160	NM	0	0	NM	160	0	0	0	0
West South Central	1,311	1,717	-24.0%	0	0	1,275	1,617	36	NM	0	0
Arkansas	NM	161	NM	0	0	NM	161	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	NM	NM	0	0	0	NM	0	0	0	0
Texas	1,167	1,528	-24.0%	0	0	1,131	1,427	36	NM	0	0
Mountain	453	520	-13.0%	NM	NM	395	423	36	NM	0	0
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	15	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	175	NM	0	0	NM	NM	21	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,892	6,054	-19.0%	636	736	3,087	3,517	1,170	1,801	0	0
California	4,075	5,062	-19.0%	231	284	2,711	3,037	1,133	1,741	0	0
Oregon	428	552	-22.0%	NM	NM	290	365	NM	NM	0	0
Washington	389	440	-12.0%	303	325	NM	NM	0	0	0	0
Pacific Noncontiguous	71	176	-60.0%	0	0	0	0	71	176	0	0
Alaska	71	176	-60.0%	0	0	0	0	71	176	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	22,843	26,918	-15.0%	2,079	2,473	18,648	21,197	1,671	2,724	444	524

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	2,701	3,118	-13.0%	0	0	2,543	2,930	158	188	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	198	228	-13.0%	0	0	198	228	0	0	0	0
Massachusetts	945	1,089	-13.0%	0	0	945	1,089	0	0	0	0
New Hampshire	316	480	-34.0%	0	0	158	292	158	188	0	0
Rhode Island	1,017	1,063	-4.3%	0	0	1,017	1,063	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	13,572	15,303	-11.0%	0	0	12,889	14,557	193	360	489	385
New Jersey	2,263	2,565	-12.0%	0	0	2,179	2,437	NM	129	0	0
New York	3,862	4,548	-15.0%	0	0	3,862	4,548	0	0	0	0
Pennsylvania	7,447	8,189	-9.1%	0	0	6,848	7,572	110	232	489	385
East North Central	16,508	19,394	-15.0%	1,951	2,280	14,214	16,798	115	92	228	224
Illinois	3,478	4,090	-15.0%	122	NM	3,355	3,970	0	0	0	0
Indiana	2,122	2,533	-16.0%	1,781	2,105	263	321	0	0	NM	107
Michigan	5,230	5,852	-11.0%	0	0	5,230	5,852	0	0	0	0
Ohio	2,738	3,333	-18.0%	0	0	2,738	3,333	0	0	0	0
Wisconsin	2,940	3,586	-18.0%	NM	NM	2,627	3,323	115	92	150	117
West North Central	2,582	3,370	-23.0%	896	944	1,685	2,426	0	0	0	0
Iowa	303	829	-64.0%	0	0	303	829	0	0	0	0
Kansas	375	434	-14.0%	0	0	375	434	0	0	0	0
Minnesota	928	1,065	-13.0%	208	232	721	833	0	0	0	0
Missouri	520	584	-11.0%	232	254	287	330	0	0	0	0
Nebraska	456	458	-0.5%	456	458	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	11,674	13,850	-16.0%	1,253	1,374	9,256	10,842	593	844	573	791
Delaware	388	473	-18.0%	0	0	348	401	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,777	1,823	-2.5%	416	422	1,361	1,389	0	NM	0	NM
Georgia	1,134	1,328	-15.0%	0	0	1,032	1,160	0	0	102	168
Maryland	611	700	-13.0%	0	0	408	465	203	234	0	0
North Carolina	2,716	3,434	-21.0%	0	0	2,398	2,925	319	509	0	0
South Carolina	1,339	1,580	-15.0%	815	930	NM	NM	0	0	431	542
Virginia	3,687	4,473	-18.0%	22	NM	3,594	4,354	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	1,261	1,521	-17.0%	451	599	809	922	0	0	0	0
Alabama	261	302	-14.0%	0	0	261	302	0	0	0	0
Kentucky	502	645	-22.0%	451	599	50	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	434	500	-13.0%	0	0	434	500	0	0	0	0
West South Central	4,100	5,299	-23.0%	0	0	3,958	5,043	142	256	0	0
Arkansas	430	499	-14.0%	0	0	430	499	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	3,618	4,709	-23.0%	0	0	3,476	4,453	142	256	0	0
Mountain	1,379	1,583	-13.0%	NM	NM	1,204	1,315	113	186	0	0
Arizona	249	288	-14.0%	0	0	249	288	0	0	0	0
Colorado	279	323	-14.0%	0	0	279	323	0	0	0	0
Idaho	205	284	-28.0%	NM	NM	NM	NM	43	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	166	NM	0	0	NM	166	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	503	522	-3.8%	0	0	433	406	70	117	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	14,416	18,132	-20.0%	1,768	2,234	9,101	10,884	3,546	5,014	0	0
California	12,023	15,074	-20.0%	603	829	7,986	9,389	3,434	4,857	0	0
Oregon	1,281	1,688	-24.0%	307	396	862	1,135	112	158	0	0
Washington	1,112	1,369	-19.0%	858	1,010	253	359	0	0	0	0
Pacific Noncontiguous	150	448	-67.0%	0	0	0	0	150	448	0	0
Alaska	150	448	-67.0%	0	0	0	0	150	448	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	68,343	82,020	-17.0%	6,382	7,514	55,660	65,717	5,010	7,389	1,291	1,400

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	301	281	7.3%	0	0	284	263	18	18	0	0
Connecticut	107	106	1.3%	0	0	107	106	0	0	0	0
Maine	27	25	7.1%	0	0	9	7	18	18	0	0
Massachusetts	159	142	12.0%	0	0	159	142	0	0	0	0
New Hampshire	8	9	-4.1%	0	0	8	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	445	422	5.5%	0	0	353	328	92	94	0	0
New Jersey	122	105	17.0%	0	0	92	75	30	30	0	0
New York	155	161	-3.6%	0	0	117	119	38	41	0	0
Pennsylvania	168	156	7.2%	0	0	144	134	24	23	0	0
East North Central	20	22	-11.0%	3	4	0	0	17	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	21.0%	0	0	0	0	1	1	0	0
Michigan	16	18	-13.0%	0	0	0	0	16	18	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-11.0%	3	4	0	0	0	0	0	0
West North Central	50	54	-8.9%	32	38	15	14	2	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	50	54	-8.9%	32	38	15	14	2	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	407	413	-1.6%	0	0	374	379	33	35	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	324	277	17.0%	0	0	324	277	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	50	63	-21.0%	0	0	50	63	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	33	74	-56.0%	0	0	0	39	33	35	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	1	-100.0%	0	0	0	0	0	0	0	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-100.0%	0	0	0	0	0	0	0	1
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	70	34	105.0%	0	0	70	34	0	0	0	0
California	45	17	167.0%	0	0	45	17	0	0	0	0
Oregon	10	7	44.0%	0	0	10	7	0	0	0	0
Washington	15	11	46.0%	0	0	15	11	0	0	0	0
Pacific Noncontiguous	31	42	-24.0%	0	0	0	0	31	42	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	31	42	-24.0%	0	0	0	0	31	42	0	0
U.S. Total	1,324	1,270	4.3%	36	41	1,097	1,018	192	209	0	1

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	882	876	0.6%	0	0	834	828	48	49	0	0
Connecticut	294	315	-6.5%	0	0	294	315	0	0	0	0
Maine	76	70	8.1%	0	0	29	22	48	49	0	0
Massachusetts	482	465	3.7%	0	0	482	465	0	0	0	0
New Hampshire	29	26	12.0%	0	0	29	26	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	1,295	1,229	5.4%	0	0	1,031	969	264	260	0	0
New Jersey	353	320	10.0%	0	0	266	233	87	88	0	0
New York	458	446	2.7%	0	0	343	335	115	111	0	0
Pennsylvania	484	463	4.7%	0	0	422	401	62	62	0	0
East North Central	59	61	-2.1%	9	9	0	0	50	52	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	3	2	31.0%	0	0	0	0	3	2	0	0
Michigan	48	50	-3.6%	0	0	0	0	48	50	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	9	9	-1.6%	9	9	0	0	0	0	0	0
West North Central	141	144	-2.1%	80	93	55	45	5	6	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	141	144	-2.1%	80	93	55	45	5	6	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,333	1,307	2.0%	0	0	1,240	1,217	93	90	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	994	907	9.7%	0	0	994	907	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	180	182	-1.0%	0	0	180	181	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	159	218	-27.0%	0	0	66	129	93	90	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	3	-100.0%	0	0	0	0	0	0	0	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	3	-100.0%	0	0	0	0	0	0	0	3
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-98.0%	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	-98.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	188	113	66.0%	0	0	188	113	0	0	0	0
California	121	59	106.0%	0	0	121	59	0	0	0	0
Oregon	29	22	34.0%	0	0	29	22	0	0	0	0
Washington	38	32	16.0%	0	0	38	32	0	0	0	0
Pacific Noncontiguous	106	93	15.0%	0	0	0	0	106	93	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	106	93	15.0%	0	0	0	0	106	93	0	0
U.S. Total	4,005	3,826	4.7%	89	102	3,349	3,171	567	549	0	3

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	5,015	5,987	-16.0%	832	819	3,590	4,618	14	NM	579	549
Connecticut	NM	479	NM	0	0	NM	479	0	0	0	0
Maine	2,199	2,576	-15.0%	0	0	1,608	2,027	12	0	579	549
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,895	2,134	-11.0%	480	397	1,415	1,738	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	518	615	-16.0%	351	422	NM	NM	2	NM	0	0
Middle Atlantic	1,118	1,031	8.5%	0	0	641	549	0	0	477	482
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	743	662	12.0%	0	0	641	549	0	0	103	113
Pennsylvania	375	369	1.6%	0	0	0	0	0	0	374	369
East North Central	2,540	2,414	5.2%	572	420	1,089	1,010	0	0	879	984
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,541	1,557	-1.0%	0	0	1,027	955	0	0	514	602
Ohio	199	195	2.0%	0	0	62	NM	0	0	137	140
Wisconsin	800	662	21.0%	572	420	0	0	0	0	228	242
West North Central	1,138	944	20.0%	NM	153	612	564	11	8	323	219
Iowa	0	NM	NM	0	0	0	0	0	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,127	936	20.0%	NM	153	612	564	0	0	323	219
Missouri	11	8	35.0%	0	0	0	0	11	8	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,421	9,591	8.7%	2,102	1,759	3,150	2,896	6	NM	5,163	4,920
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	1,734	1,311	32.0%	0	0	954	579	0	0	780	732
Georgia	2,614	2,452	6.6%	0	0	625	616	0	0	1,989	1,837
Maryland	67	77	-13.0%	0	0	0	0	6	NM	61	60
North Carolina	1,186	1,204	-1.5%	0	0	766	741	0	0	420	463
South Carolina	2,256	2,175	3.8%	401	339	507	594	0	0	1,349	1,241
Virginia	2,564	2,372	8.1%	1,701	1,420	NM	366	0	0	565	587
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,008	3,198	-5.9%	0	0	194	182	0	0	2,814	3,016
Alabama	1,771	1,930	-8.2%	0	0	194	182	0	0	1,577	1,748
Kentucky	131	165	-21.0%	0	0	0	0	0	0	131	165
Mississippi	695	714	-2.6%	0	0	0	0	0	0	695	714
Tennessee	411	388	5.7%	0	0	0	0	0	0	411	388
West South Central	3,076	2,914	5.5%	0	0	242	0	0	0	2,834	2,914
Arkansas	602	688	-13.0%	0	0	0	0	0	0	602	688
Louisiana	1,501	1,540	-2.5%	0	0	0	0	0	0	1,501	1,540
Oklahoma	121	99	22.0%	0	0	0	0	0	0	121	99
Texas	853	588	45.0%	0	0	242	0	0	0	611	588
Mountain	775	712	8.8%	0	0	393	222	0	0	382	490
Arizona	NM	157	NM	0	0	NM	157	0	0	0	0
Colorado	124	0	--	0	0	124	0	0	0	0	0
Idaho	363	512	-29.0%	0	0	30	65	0	0	333	447
Montana	49	NM	NM	0	0	0	0	0	0	49	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	5,855	5,843	0.2%	NM	377	3,776	3,891	0	0	1,710	1,576
California	3,924	3,920	0.1%	0	0	3,530	3,653	0	0	394	267
Oregon	541	524	3.2%	0	0	NM	238	0	0	295	287
Washington	1,390	1,399	-0.6%	NM	377	0	0	0	0	1,021	1,022
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	32,946	32,635	1.0%	4,066	3,528	13,687	13,931	31	26	15,161	15,150

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	14,501	17,860	-19.0%	2,397	2,773	10,359	13,433	32	NM	1,713	1,645
Connecticut	661	1,246	-47.0%	0	0	661	1,246	0	0	0	0
Maine	6,381	7,710	-17.0%	0	0	4,643	6,060	25	NM	1,713	1,645
Massachusetts	471	535	-12.0%	0	0	471	535	0	0	0	0
New Hampshire	5,436	6,459	-16.0%	1,335	1,423	4,101	5,036	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,551	1,909	-19.0%	1,061	1,350	483	555	7	NM	0	0
Middle Atlantic	3,349	3,191	4.9%	0	0	1,926	1,725	0	0	1,423	1,466
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	2,235	2,043	9.4%	0	0	1,926	1,721	0	0	309	322
Pennsylvania	1,114	1,148	-3.0%	0	0	0	NM	0	0	1,113	1,144
East North Central	6,793	7,312	-7.1%	1,372	1,422	2,849	3,036	0	0	2,572	2,855
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	4,139	4,592	-9.9%	0	NM	2,677	2,872	0	0	1,462	1,720
Ohio	562	575	-2.3%	0	0	172	164	0	0	390	411
Wisconsin	2,093	2,145	-2.4%	1,372	1,421	0	0	0	0	721	724
West North Central	3,114	2,899	7.4%	510	534	1,640	1,693	100	86	865	585
Iowa	1	NM	NM	0	0	0	0	1	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	3,019	2,813	7.3%	510	534	1,640	1,693	5	0	865	585
Missouri	94	84	12.0%	0	0	0	0	94	84	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	30,383	30,080	1.0%	5,483	5,756	9,020	8,799	44	51	15,836	15,474
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	4,805	4,121	17.0%	0	0	2,510	1,935	0	0	2,295	2,186
Georgia	7,620	7,684	-0.8%	0	0	1,753	1,984	0	0	5,867	5,700
Maryland	227	193	18.0%	0	0	0	0	44	51	183	142
North Carolina	4,010	3,625	11.0%	0	0	2,428	2,163	0	0	1,582	1,463
South Carolina	6,725	6,720	0.1%	1,051	977	1,526	1,696	0	0	4,149	4,047
Virginia	6,996	7,738	-9.6%	4,433	4,779	804	1,021	0	0	1,760	1,937
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	9,140	9,498	-3.8%	0	0	570	535	0	0	8,570	8,963
Alabama	5,539	5,679	-2.5%	0	0	570	535	0	0	4,969	5,144
Kentucky	395	482	-18.0%	0	0	0	0	0	0	395	482
Mississippi	2,028	2,154	-5.9%	0	0	0	0	0	0	2,028	2,154
Tennessee	1,178	1,183	-0.4%	0	0	0	0	0	0	1,178	1,183
West South Central	9,288	9,352	-0.7%	0	0	454	312	0	0	8,835	9,039
Arkansas	1,939	2,056	-5.7%	0	0	0	0	0	0	1,939	2,056
Louisiana	4,752	4,914	-3.3%	0	0	0	0	0	0	4,752	4,914
Oklahoma	341	298	14.0%	0	0	0	0	0	0	341	298
Texas	2,257	2,084	8.3%	0	0	454	312	0	0	1,803	1,771
Mountain	2,348	2,179	7.7%	0	0	1,181	921	0	0	1,167	1,258
Arizona	734	731	0.4%	0	0	734	731	0	0	0	0
Colorado	324	11	NM	0	0	324	11	0	0	0	0
Idaho	1,144	1,303	-12.0%	0	0	123	180	0	0	1,021	1,123
Montana	146	135	8.1%	0	0	0	0	0	0	146	135
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	17,144	17,296	-0.9%	1,070	1,285	10,913	11,315	0	0	5,161	4,696
California	11,398	11,399	0.0%	0	0	10,244	10,592	0	0	1,153	808
Oregon	1,658	1,665	-0.4%	0	0	668	723	0	0	989	942
Washington	4,089	4,231	-3.4%	1,070	1,285	0	0	0	0	3,018	2,946
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	96,060	99,668	-3.6%	10,832	11,770	38,910	41,769	176	147	46,141	45,982

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

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

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, March 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	March 2017	March 2016	Percentage Change	March 2017	March 2016	Percentage Change	March 2017	March 2016	Percentage Change
New England	1,157	1,763	-34.4%	4,011	4,644	-13.6%	0	0	--
Connecticut	W	W	W	1,240	1,656	-25.1%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,716	1,837	-6.6%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	W	W	W	W	W	W	0	0	--
Vermont	0	0	--	36	53	-32.6%	0	0	--
Middle Atlantic	5,223	7,105	-26.5%	4,871	5,699	-14.5%	0	0	--
New Jersey	769	814	-5.6%	543	714	-24.0%	0	0	--
New York	W	W	W	3,305	3,605	-8.3%	0	0	--
Pennsylvania	W	W	W	1,023	1,379	-25.8%	0	0	--
East North Central	33,678	41,218	-18.3%	846	1,169	-27.6%	359	252	42.8%
Illinois	8,251	11,191	-26.3%	55	82	-32.5%	0	0	--
Indiana	8,966	11,566	-22.5%	93	121	-23.1%	W	0	W
Michigan	4,241	4,575	-7.3%	317	344	-7.9%	W	W	W
Ohio	7,767	9,405	-17.4%	242	382	-36.8%	W	W	W
Wisconsin	4,452	4,481	-0.6%	139	240	-42.0%	W	W	W
West North Central	31,327	31,632	-1.0%	692	1,037	-33.3%	0	0	--
Iowa	8,263	7,608	8.6%	88	141	-37.9%	0	0	--
Kansas	4,843	4,882	-0.8%	119	135	-11.7%	0	0	--
Minnesota	4,099	4,724	-13.2%	85	144	-41.3%	0	0	--
Missouri	9,161	9,436	-2.9%	271	405	-33.0%	0	0	--
Nebraska	3,281	3,098	5.9%	61	115	-46.8%	0	0	--
North Dakota	W	W	W	29	38	-23.2%	0	0	--
South Dakota	W	W	W	38	58	-34.8%	0	0	--
South Atlantic	28,701	34,490	-16.8%	12,346	11,962	3.2%	W	W	W
Delaware	W	W	W	269	466	-42.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,671	6,423	-27.3%	5,729	5,345	7.2%	108	75	44.1%
Georgia	5,612	6,182	-9.2%	803	847	-5.2%	0	0	--
Maryland	2,110	1,433	47.2%	861	886	-2.8%	0	0	--
North Carolina	5,654	7,489	-24.5%	1,226	1,233	-0.5%	0	0	--
South Carolina	4,991	6,145	-18.8%	669	684	-2.2%	0	0	--
Virginia	1,202	W	W	2,645	2,357	12.2%	0	0	--
West Virginia	W	5,255	W	144	144	-0.1%	W	W	W
East South Central	16,289	18,393	-11.4%	1,938	1,854	4.5%	W	W	W
Alabama	3,349	4,551	-26.4%	331	263	25.8%	0	0	--
Kentucky	8,359	8,615	-3.0%	242	239	1.4%	W	W	W
Mississippi	1,185	1,467	-19.3%	566	577	-2.0%	0	0	--
Tennessee	3,396	3,759	-9.7%	800	776	3.1%	0	0	--
West South Central	25,839	35,106	-26.4%	1,768	1,852	-4.5%	W	W	W
Arkansas	3,203	5,482	-41.6%	W	W	W	0	0	--
Louisiana	2,745	3,715	-26.1%	415	396	4.8%	W	W	W
Oklahoma	4,324	5,974	-27.6%	W	W	W	0	0	--
Texas	15,568	19,935	-21.9%	1,067	1,177	-9.3%	0	0	--
Mountain	20,424	20,599	-0.8%	385	399	-3.4%	W	W	W
Arizona	3,477	4,490	-22.6%	132	128	3.4%	0	0	--
Colorado	4,238	5,634	-24.8%	122	120	1.6%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	20	W	W	W	W
Nevada	W	1,063	W	15	W	W	0	0	--
New Mexico	W	W	W	34	37	-8.3%	0	0	--
Utah	5,536	4,171	32.7%	37	46	-20.2%	0	0	--
Wyoming	4,537	3,488	30.1%	29	33	-11.4%	0	0	--
Pacific Contiguous	W	W	W	357	513	-30.4%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	149	266	-43.8%	0	0	--
Pacific Noncontiguous	W	W	W	2,235	2,450	-8.8%	0	0	--
Alaska	W	W	W	NM	283	NM	0	0	--
Hawaii	W	W	W	2,193	2,167	1.2%	0	0	--
U.S. Total	163,900	192,269	-14.8%	29,449	31,579	-6.7%	882	1,240	-28.9%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**March 2017**	**March 2016**	**Percentage Change**	**March 2017**	**March 2016**	**March 2017**	**March 2016**
Coal (Thousand Tons)							
New England	1,157	1,763	-34.4%	W	W	W	W
Middle Atlantic	5,223	7,105	-26.5%	0	0	5,223	7,105
East North Central	33,678	41,218	-18.3%	19,854	24,308	13,824	16,910
West North Central	31,327	31,632	-1.0%	31,327	31,632	0	0
South Atlantic	28,701	34,490	-16.8%	25,658	32,013	3,044	2,477
East South Central	16,289	18,393	-11.4%	16,289	18,393	0	0
West South Central	25,839	35,106	-26.4%	15,631	21,739	10,208	13,367
Mountain	20,424	20,599	-0.8%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	**163,900**	**192,269**	**-14.8%**	**129,324**	**149,113**	**34,577**	**43,156**
Petroleum Liquids (Thousand Barrels)							
New England	4,011	4,644	-13.6%	629	670	3,382	3,975
Middle Atlantic	4,871	5,699	-14.5%	2,024	2,211	2,847	3,488
East North Central	846	1,169	-27.6%	618	844	228	325
West North Central	692	1,037	-33.3%	W	1,012	W	25
South Atlantic	12,346	11,962	3.2%	10,127	9,620	2,219	2,341
East South Central	1,938	1,854	4.5%	W	W	W	W
West South Central	1,768	1,852	-4.5%	1,363	1,361	405	490
Mountain	385	399	-3.4%	353	W	32	W
Pacific Contiguous	357	513	-30.4%	W	410	W	103
Pacific Noncontiguous	2,235	2,450	-8.8%	W	W	W	W
U.S. Total	**29,449**	**31,579**	**-6.7%**	**20,105**	**20,697**	**9,344**	**10,883**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	359	252	42.8%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	108	75	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	**882**	**1,240**	**-28.9%**	**W**	**W**	**W**	**W**

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

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

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 - March 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
Year to Date												
2015	3,831,282	198,520	2.27	43.82	1.29	98.5	47,744	7,871	12.63	76.70	0.53	53.0
2016	2,869,936	148,122	2.14	41.39	1.39	94.5	23,763	3,939	7.31	44.11	0.45	61.0
2017	3,045,854	158,809	2.08	39.93	1.30	96.7	27,416	4,579	11.72	70.15	0.51	79.2
Rolling 12 Months Ending in March												
2016	14,124,862	732,531	2.19	42.30	1.32	103.0	123,667	20,388	10.25	62.20	0.46	86.1
2017	12,508,767	649,251	2.10	40.52	1.32	92.8	104,255	17,251	W	W	0.49	74.7

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

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

- Values for 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 - March 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
Year to Date												
2015	33,555	1,186	1.93	54.63	5.22	84.8	2,194,001	2,125,208	4.10	4.23	88.9	2.96
2016	31,224	1,112	1.36	38.18	5.51	84.9	2,352,001	2,273,907	2.65	2.74	89.6	2.37
2017	23,280	831	2.06	57.83	5.59	73.5	1,758,822	1,701,523	3.69	3.81	76.9	2.69
Rolling 12 Months Ending in March												
2016	136,337	4,823	1.71	48.27	5.31	94.6	10,331,502	9,991,280	2.91	3.01	90.0	2.51
2017	108,991	3,885	1.82	51.01	5.41	76.0	10,012,798	9,686,303	3.07	3.18	87.8	W

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

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - March 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
Year to Date												
2015	2,791,706	144,044	2.28	44.20	1.17	102.1	27,435	4,500	11.88	72.49	0.52	65.2
2016	2,146,411	110,085	2.18	42.43	1.25	96.1	17,217	2,826	7.20	43.84	0.42	68.2
2017	2,218,181	115,034	2.13	41.04	1.19	96.7	21,529	3,582	11.42	68.65	0.50	89.1
Rolling 12 Months Ending in March												
2016	10,443,336	537,748	2.23	43.32	1.18	104.6	79,822	13,073	10.23	62.49	0.43	82.4
2017	9,272,732	477,859	2.15	41.76	1.20	94.9	77,362	12,699	10.22	62.29	0.47	81.6

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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 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - March 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
Year to Date												
2015	28,076	987	1.87	53.28	5.22	117.5	1,014,768	983,861	4.19	4.32	95.7	2.84
2016	26,174	927	1.16	32.76	5.49	108.2	1,131,687	1,094,482	2.92	3.02	97.2	2.45
2017	23,280	831	2.06	57.83	5.59	113.2	836,604	809,356	3.91	4.04	84.6	2.67
Rolling 12 Months Ending in March												
2016	114,028	4,009	1.60	45.65	5.29	127.5	4,834,667	4,675,661	3.24	3.35	96.4	2.58
2017	96,811	3,442	1.74	49.10	5.40	104.0	4,764,903	4,607,776	3.34	3.45	94.3	2.59

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

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- Totals may not equal the sum of components because of independent rounding.

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - March 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
Year to Date												
2015	971,105	51,339	2.21	41.74	1.61	92.4	19,611	3,259	13.67	82.40	0.50	47.8
2016	681,617	36,156	1.97	37.09	1.85	96.0	5,960	1,018	7.47	43.83	0.45	57.9
2017	780,430	41,543	1.92	36.13	1.62	100.0	5,461	929	12.93	76.03	0.48	77.4
Rolling 12 Months Ending in March												
2016	3,442,020	183,799	2.04	38.28	1.71	102.1	41,597	6,947	10.18	61.03	0.45	124.6
2017	3,077,905	164,129	1.93	36.12	1.69	90.2	25,235	4,280	W	W	0.48	80.8

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - March 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
Year to Date												
2015	2,945	105	2.47	69.30	4.90	52.4	989,991	958,245	4.19	4.33	92.1	W
2016	3,954	144	2.50	68.45	5.50	96.9	1,036,480	1,001,297	2.37	2.45	93.2	W
2017	0	0	--	--	--	0.0	753,315	728,637	3.50	3.62	81.0	2.66
Rolling 12 Months Ending in March												
2016	15,559	563	W	W	5.39	77.4	4,729,780	4,573,247	2.55	2.64	93.4	W
2017	9,612	348	W	W	5.41	49.3	4,502,043	4,355,620	2.75	2.84	91.6	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.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - March 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
Year to Date												
2015	965	45	W	W	2.23	16.2	0	0	--	--	--	0.0
2016	425	19	W	W	2.92	8.2	0	0	--	--	--	0.0
2017	307	13	W	W	2.99	8.1	0	0	--	--	--	0.0
Rolling 12 Months Ending in March												
2016	1,899	83	W	W	2.79	11.0	0	0	--	--	--	0.0
2017	1,169	51	W	W	3.06	8.2	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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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - March 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
Year to Date												
2015	0	0	--	--	--	0.0	1,368	1,349	W	W	5.0	W
2016	0	0	--	--	--	0.0	2,349	2,290	W	W	7.8	W
2017	0	0	--	--	--	0.0	1,988	1,924	W	W	6.1	W
Rolling 12 Months Ending in March												
2016	0	0	--	--	--	0.0	7,480	7,311	W	W	6.2	W
2017	0	0	--	--	--	0.0	7,644	7,400	W	W	6.2	W

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - March 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
Year to Date												
2015	67,505	3,092	W	W	1.36	67.2	697	112	14.71	91.50	1.67	14.0
2016	41,482	1,862	W	W	1.51	43.6	586	95	8.99	55.27	1.21	19.7
2017	46,937	2,218	W	W	1.23	63.1	426	68	11.21	69.80	1.22	16.6
Rolling 12 Months Ending in March												
2016	237,607	10,901	W	W	1.38	65.5	2,248	368	11.90	72.67	1.29	18.7
2017	156,961	7,212	W	W	1.37	53.2	1,657	272	W	W	1.21	14.4

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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 - March 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
Year to Date												
2015	2,534	93	W	W	5.59	26.6	187,873	181,753	W	W	61.7	W
2016	1,096	40	W	W	5.93	13.5	181,484	175,839	W	W	56.7	W
2017	0	0	--	--	--	0.0	166,916	161,605	W	W	49.9	W
Rolling 12 Months Ending in March												
2016	6,750	251	W	W	5.53	20.7	759,575	735,062	W	W	59.4	W
2017	2,568	95	W	W	5.79	8.8	738,207	715,507	W	W	56.3	W

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	8	114	-93.0%	0	0	8	113	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	8	8	-4.4%	0	0	8	7	0	0	0	1
Massachusetts	0	106	-100.0%	0	0	0	106	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,843	1,157	59.0%	0	0	1,807	1,113	0	0	36	44
New Jersey	61	64	-3.8%	0	0	61	64	0	0	0	0
New York	25	33	-24.0%	0	0	0	0	0	0	25	33
Pennsylvania	1,757	1,061	66.0%	0	0	1,746	1,049	0	0	11	12
East North Central	11,102	9,494	17.0%	6,305	5,421	4,601	3,892	0	0	196	181
Illinois	3,600	2,853	26.0%	764	707	2,642	2,024	0	0	193	121
Indiana	2,389	2,440	-2.1%	2,250	2,218	139	221	0	0	0	0
Michigan	1,418	1,022	39.0%	1,415	1,022	0	0	0	0	3	1
Ohio	2,371	2,298	3.2%	551	627	1,820	1,647	0	0	0	24
Wisconsin	1,325	881	50.0%	1,325	846	0	0	0	0	0	36
West North Central	9,051	8,367	8.2%	8,741	8,242	0	0	5	7	305	119
Iowa	997	1,500	-34.0%	804	1,381	0	0	0	0	192	119
Kansas	826	862	-4.2%	826	862	0	0	0	0	0	0
Minnesota	1,019	1,103	-7.6%	953	1,103	0	0	0	0	66	0
Missouri	3,163	2,488	27.0%	3,159	2,481	0	0	5	7	0	0
Nebraska	1,010	746	35.0%	962	746	0	0	0	0	47	0
North Dakota	1,952	1,569	24.0%	1,952	1,569	0	0	0	0	0	0
South Dakota	84	99	-15.0%	84	99	0	0	0	0	0	0
South Atlantic	7,219	8,001	-9.8%	6,389	7,096	745	818	0	0	85	87
Delaware	59	35	66.0%	0	0	59	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,228	1,086	13.0%	1,217	1,086	0	0	0	0	11	0
Georgia	1,464	1,292	13.0%	1,457	1,279	0	0	0	0	7	13
Maryland	314	365	-14.0%	0	0	294	344	0	0	20	21
North Carolina	1,117	974	15.0%	1,074	974	11	0	0	0	32	0
South Carolina	588	788	-25.0%	588	772	0	0	0	0	0	16
Virginia	438	795	-45.0%	399	731	23	34	0	0	16	29
West Virginia	2,011	2,665	-25.0%	1,654	2,253	358	404	0	0	0	8
East South Central	4,789	5,248	-8.7%	4,413	4,862	299	273	0	0	78	113
Alabama	1,232	1,240	-0.6%	1,232	1,240	0	0	0	0	0	0
Kentucky	2,808	3,209	-13.0%	2,808	3,209	0	0	0	0	0	0
Mississippi	335	292	15.0%	36	19	299	273	0	0	0	0
Tennessee	414	507	-18.0%	336	393	0	0	0	0	78	113
West South Central	8,424	5,865	44.0%	3,603	3,268	4,768	2,593	0	0	53	5
Arkansas	634	938	-32.0%	626	785	0	148	0	0	8	5
Louisiana	422	504	-16.0%	160	310	263	194	0	0	0	0
Oklahoma	780	997	-22.0%	637	943	98	54	0	0	45	0
Texas	6,588	3,426	92.0%	2,180	1,230	4,408	2,196	0	0	0	0
Mountain	7,507	6,158	22.0%	6,786	5,491	721	647	0	0	0	20
Arizona	1,538	708	117.0%	1,538	708	0	0	0	0	0	0
Colorado	1,380	1,147	20.0%	1,380	1,147	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	600	633	-5.2%	25	0	574	633	0	0	0	0
Nevada	64	50	29.0%	0	35	64	15	0	0	0	0
New Mexico	1,068	717	49.0%	1,068	717	0	0	0	0	0	0
Utah	963	1,096	-12.0%	927	1,077	36	0	0	0	0	20
Wyoming	1,894	1,807	4.9%	1,848	1,807	47	0	0	0	0	0
Pacific Contiguous	156	353	-56.0%	42	0	49	266	0	0	66	87
California	66	87	-25.0%	0	0	0	0	0	0	66	87
Oregon	42	0	--	42	0	0	0	0	0	0	0
Washington	49	266	-82.0%	0	0	49	266	0	0	0	0
Pacific Noncontiguous	74	136	-45.0%	15	17	60	118	0	0	0	0
Alaska	15	17	-17.0%	15	17	0	0	0	0	0	0
Hawaii	60	118	-49.0%	0	0	60	118	0	0	0	0
U.S. Total	50,174	44,893	12.0%	36,293	34,396	13,058	9,832	5	7	819	658

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	157	508	-69.0%	45	0	112	504	0	0	0	4
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	26	26	-0.4%	0	0	26	22	0	0	0	4
Massachusetts	87	397	-78.0%	0	0	87	397	0	0	0	0
New Hampshire	45	0	--	45	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	5,614	4,819	16.0%	0	0	5,496	4,711	0	0	118	108
New Jersey	195	165	19.0%	0	0	195	165	0	0	0	0
New York	119	73	63.0%	0	0	45	0	0	0	74	73
Pennsylvania	5,299	4,581	16.0%	0	0	5,256	4,546	0	0	44	35
East North Central	32,933	31,449	4.7%	18,877	17,617	13,571	13,214	0	0	485	618
Illinois	10,974	9,525	15.0%	2,258	1,834	8,235	7,261	0	0	481	430
Indiana	6,767	7,535	-10.0%	6,383	6,961	385	574	0	0	0	0
Michigan	3,913	3,206	22.0%	3,910	3,196	0	0	0	0	4	10
Ohio	6,602	7,348	-10.0%	1,651	1,899	4,951	5,379	0	0	0	71
Wisconsin	4,676	3,834	22.0%	4,676	3,727	0	0	0	0	0	107
West North Central	29,280	28,377	3.2%	28,477	28,035	0	0	13	19	790	324
Iowa	3,474	4,352	-20.0%	2,940	4,028	0	0	0	0	534	324
Kansas	3,235	3,058	5.8%	3,235	3,058	0	0	0	0	0	0
Minnesota	3,434	3,145	9.2%	3,368	3,145	0	0	0	0	66	0
Missouri	9,401	8,737	7.6%	9,387	8,718	0	0	13	19	0	0
Nebraska	3,515	3,122	13.0%	3,326	3,122	0	0	0	0	189	0
North Dakota	5,898	5,632	4.7%	5,898	5,632	0	0	0	0	0	0
South Dakota	322	331	-2.8%	322	331	0	0	0	0	0	0
South Atlantic	22,538	22,673	-0.6%	19,561	20,010	2,694	2,385	0	0	284	277
Delaware	106	71	49.0%	0	0	106	71	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,723	3,160	18.0%	3,678	3,135	13	25	0	0	32	0
Georgia	4,216	3,591	17.0%	4,189	3,563	0	0	0	0	26	28
Maryland	1,319	874	51.0%	0	0	1,259	806	0	0	60	67
North Carolina	3,434	2,665	29.0%	3,325	2,665	15	0	0	0	94	0
South Carolina	1,681	2,421	-31.0%	1,670	2,370	0	0	0	0	11	51
Virginia	1,570	2,201	-29.0%	1,430	1,986	80	125	0	0	60	90
West Virginia	6,490	7,691	-16.0%	5,268	6,292	1,223	1,358	0	0	0	41
East South Central	15,612	15,423	1.2%	14,679	14,260	668	816	0	0	264	347
Alabama	3,740	3,607	3.7%	3,740	3,607	0	0	0	0	0	0
Kentucky	9,213	9,074	1.5%	9,213	9,074	0	0	0	0	0	0
Mississippi	878	951	-7.7%	210	135	668	816	0	0	0	0
Tennessee	1,781	1,791	-0.6%	1,517	1,444	0	0	0	0	264	347
West South Central	28,941	22,370	29.0%	13,004	11,164	15,812	11,189	0	0	126	17
Arkansas	3,034	3,243	-6.5%	2,867	2,716	147	510	0	0	20	17
Louisiana	2,190	1,643	33.0%	1,320	1,318	870	325	0	0	0	0
Oklahoma	2,171	2,545	-15.0%	1,793	2,323	272	222	0	0	106	0
Texas	21,547	14,938	44.0%	7,025	4,807	14,522	10,131	0	0	0	0
Mountain	22,757	20,973	8.5%	20,183	18,686	2,575	2,261	0	0	0	25
Arizona	3,949	3,260	21.0%	3,949	3,260	0	0	0	0	0	0
Colorado	4,185	3,962	5.6%	4,185	3,962	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,255	2,175	3.7%	76	0	2,180	2,175	0	0	0	0
Nevada	148	182	-18.0%	0	95	148	86	0	0	0	0
New Mexico	3,029	2,416	25.0%	3,029	2,416	0	0	0	0	0	0
Utah	3,109	3,102	0.2%	2,999	3,076	110	0	0	0	0	25
Wyoming	6,082	5,877	3.5%	5,946	5,877	137	0	0	0	0	0
Pacific Contiguous	814	1,212	-33.0%	165	235	497	836	0	0	153	142
California	153	142	8.1%	0	0	0	0	0	0	153	142
Oregon	165	235	-30.0%	165	235	0	0	0	0	0	0
Washington	497	836	-41.0%	0	0	497	836	0	0	0	0
Pacific Noncontiguous	163	318	-49.0%	44	79	119	240	0	0	0	0
Alaska	44	79	-44.0%	44	79	0	0	0	0	0	0
Hawaii	119	240	-50.0%	0	0	119	240	0	0	0	0
U.S. Total	158,809	148,122	7.2%	115,034	110,085	41,543	36,156	13	19	2,218	1,862

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	8	6	18.0%	3	1	4	6	0	0	0	0
Connecticut	4	1	669.0%	0	0	4	1	0	0	0	0
Maine	0	3	-89.0%	0	0	0	3	0	0	0	0
Massachusetts	0	0	-100.0%	0	0	0	0	0	0	0	0
New Hampshire	3	1	447.0%	3	1	0	0	0	0	0	0
Rhode Island	0	2	-100.0%	0	0	0	2	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	108	26	321.0%	60	0	41	22	0	0	7	4
New Jersey	0	1	-33.0%	0	0	0	1	0	0	0	0
New York	64	6	969.0%	60	0	3	2	0	0	0	4
Pennsylvania	44	19	130.0%	0	0	38	19	0	0	6	0
East North Central	55	71	-22.0%	27	43	26	27	0	0	3	1
Illinois	9	12	-27.0%	0	0	9	12	0	0	0	0
Indiana	10	23	-55.0%	10	23	0	0	0	0	0	0
Michigan	11	14	-20.0%	10	14	0	0	0	0	2	0
Ohio	24	20	19.0%	6	5	17	15	0	0	1	1
Wisconsin	1	2	-50.0%	1	2	0	0	0	0	0	0
West North Central	22	17	29.0%	22	17	0	0	0	0	0	0
Iowa	4	4	7.1%	4	4	0	0	0	0	0	0
Kansas	5	0	--	5	0	0	0	0	0	0	0
Minnesota	1	1	6.3%	1	1	0	0	0	0	0	0
Missouri	5	8	-37.0%	5	8	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	2	5	-48.0%	2	5	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	1,035	220	369.0%	970	170	47	27	0	0	18	23
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	931	16	NM	928	16	0	0	0	0	3	0
Georgia	17	10	71.0%	13	6	0	0	0	0	5	4
Maryland	26	10	152.0%	0	0	26	10	0	0	0	0
North Carolina	18	15	22.0%	17	15	0	0	0	0	2	0
South Carolina	12	23	-47.0%	5	6	0	0	0	0	7	17
Virginia	24	141	-83.0%	2	123	21	17	0	0	0	2
West Virginia	6	4	32.0%	6	4	0	0	0	0	0	0
East South Central	27	28	-1.8%	26	28	0	0	0	0	2	0
Alabama	4	7	-39.0%	4	7	0	0	0	0	0	0
Kentucky	18	14	26.0%	18	14	0	0	0	0	0	0
Mississippi	1	0	--	1	0	0	0	0	0	0	0
Tennessee	4	7	-38.0%	2	7	0	0	0	0	2	0
West South Central	7	16	-56.0%	2	14	5	2	0	0	0	0
Arkansas	0	5	-100.0%	0	5	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	0	NM	1	0	0	0	0	0	0	0
Texas	6	11	-40.0%	2	9	5	2	0	0	0	0
Mountain	34	26	31.0%	30	25	4	1	0	0	0	0
Arizona	4	8	-50.0%	4	8	0	0	0	0	0	0
Colorado	0	4	-100.0%	0	4	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	1	300.0%	0	0	2	1	0	0	0	0
Nevada	1	1	1.4%	0	1	1	0	0	0	0	0
New Mexico	3	8	-60.0%	3	8	0	0	0	0	0	0
Utah	15	0	--	14	0	1	0	0	0	0	0
Wyoming	9	4	126.0%	9	4	0	0	0	0	0	0
Pacific Contiguous	1	2	-49.0%	0	0	1	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	2	-49.0%	0	0	1	2	0	0	0	0
Pacific Noncontiguous	721	720	0.2%	618	552	103	168	0	0	0	0
Alaska	0	0	-30.0%	0	0	0	0	0	0	0	0
Hawaii	721	719	0.3%	618	552	103	168	0	0	0	0
U.S. Total	2,018	1,132	78.0%	1,759	851	231	254	0	0	29	28

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	188	30	533.0%	8	4	180	25	0	0	0	0
Connecticut	19	5	258.0%	0	0	19	5	0	0	0	0
Maine	84	10	740.0%	0	0	84	10	0	0	0	0
Massachusetts	78	2	NM	0	0	78	2	0	0	0	0
New Hampshire	8	4	86.0%	8	4	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	319	225	42.0%	161	13	142	206	0	0	16	5
New Jersey	1	4	-80.0%	0	0	1	4	0	0	0	0
New York	211	141	50.0%	161	13	48	122	0	0	2	5
Pennsylvania	107	80	33.0%	0	0	93	80	0	0	14	0
East North Central	178	279	-36.0%	101	149	68	123	0	0	8	7
Illinois	27	38	-28.0%	1	1	27	37	0	0	0	0
Indiana	38	63	-39.0%	38	63	0	0	0	0	0	0
Michigan	35	49	-29.0%	31	48	0	0	0	0	4	2
Ohio	69	121	-42.0%	24	30	42	86	0	0	4	5
Wisconsin	7	9	-17.0%	7	9	0	0	0	0	0	0
West North Central	112	81	38.0%	112	81	0	0	0	0	0	0
Iowa	25	19	30.0%	25	19	0	0	0	0	0	0
Kansas	20	10	96.0%	20	10	0	0	0	0	0	0
Minnesota	5	6	-8.7%	5	6	0	0	0	0	0	0
Missouri	26	27	-6.0%	26	27	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	31	16	89.0%	31	16	0	0	0	0	0	0
South Dakota	5	2	109.0%	5	2	0	0	0	0	0	0
South Atlantic	1,336	910	47.0%	1,198	602	97	228	0	0	41	80
Delaware	4	32	-87.0%	0	0	4	32	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,008	41	NM	1,001	41	0	0	0	0	7	0
Georgia	53	109	-51.0%	39	64	3	30	0	0	12	15
Maryland	37	61	-39.0%	0	0	37	61	0	0	0	0
North Carolina	97	125	-22.0%	89	64	1	61	0	0	7	0
South Carolina	29	88	-67.0%	19	31	0	0	0	0	10	58
Virginia	65	402	-84.0%	8	351	52	43	0	0	5	7
West Virginia	42	51	-18.0%	42	51	0	0	0	0	0	0
East South Central	104	130	-20.0%	97	117	4	10	0	0	4	3
Alabama	15	38	-61.0%	11	28	4	10	0	0	0	0
Kentucky	50	41	21.0%	50	41	0	0	0	0	0	0
Mississippi	6	11	-51.0%	6	11	0	0	0	0	0	0
Tennessee	34	39	-14.0%	30	37	0	0	0	0	4	3
West South Central	48	45	6.4%	11	37	37	9	0	0	0	0
Arkansas	21	17	28.0%	2	16	20	1	0	0	0	0
Louisiana	0	2	-100.0%	0	0	0	2	0	0	0	0
Oklahoma	1	1	55.0%	1	1	0	0	0	0	0	0
Texas	25	25	0.1%	7	20	18	5	0	0	0	0
Mountain	85	78	9.2%	79	73	7	5	0	0	0	0
Arizona	16	17	-2.2%	16	17	0	0	0	0	0	0
Colorado	1	7	-92.0%	1	7	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	4	0.6%	0	0	4	4	0	0	0	0
Nevada	2	4	-63.0%	0	3	2	1	0	0	0	0
New Mexico	21	25	-18.0%	21	25	0	0	0	0	0	0
Utah	23	5	413.0%	23	5	1	0	0	0	0	0
Wyoming	18	15	18.0%	18	15	0	0	0	0	0	0
Pacific Contiguous	13	2	588.0%	7	0	6	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	7	0	--	7	0	0	0	0	0	0	0
Washington	6	2	213.0%	0	0	6	2	0	0	0	0
Pacific Noncontiguous	2,196	2,158	1.7%	1,809	1,749	387	409	0	0	0	0
Alaska	1	3	-76.0%	1	3	0	0	0	0	0	0
Hawaii	2,196	2,156	1.8%	1,808	1,747	387	409	0	0	0	0
U.S. Total	4,579	3,939	16.0%	3,582	2,826	929	1,018	0	0	68	95

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 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	39	98	-60.0%	39	44	0	48	0	0	0	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	18	-100.0%	0	18	0	0	0	0	0	0
Michigan	38	24	59.0%	38	24	0	0	0	0	0	0
Ohio	0	48	-100.0%	0	0	0	48	0	0	0	0
Wisconsin	1	8	-89.0%	1	3	0	0	0	0	0	6
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	72	142	-49.0%	72	126	0	0	0	0	0	16
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	72	126	-43.0%	72	126	0	0	0	0	0	0
Georgia	0	16	-100.0%	0	0	0	0	0	0	0	16
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	35	0	--	35	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	35	0	--	35	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	163	123	32.0%	163	123	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	163	123	32.0%	163	123	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	309	363	-15.0%	309	294	0	48	0	0	0	21

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 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	115	340	-66.0%	115	179	0	144	0	0	0	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	127	-100.0%	0	127	0	0	0	0	0	0
Michigan	109	47	129.0%	109	47	0	0	0	0	0	0
Ohio	0	144	-100.0%	0	0	0	144	0	0	0	0
Wisconsin	6	22	-71.0%	6	5	0	0	0	0	0	17
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	148	349	-58.0%	148	326	0	0	0	0	0	23
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	148	326	-55.0%	148	326	0	0	0	0	0	0
Georgia	0	23	-100.0%	0	0	0	0	0	0	0	23
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	82	47	74.0%	82	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	82	47	74.0%	82	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	486	375	29.0%	486	375	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	486	375	29.0%	486	375	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	831	1,112	-25.0%	831	927	0	144	0	0	0	40

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	20,190	24,335	-17.0%	2	74	20,189	24,261	0	0	0	0
Connecticut	7,446	8,607	-13.0%	0	0	7,446	8,607	0	0	0	0
Maine	2	600	-100.0%	0	0	2	600	0	0	0	0
Massachusetts	10,544	9,888	6.6%	0	74	10,544	9,814	0	0	0	0
New Hampshire	1,470	754	95.0%	2	1	1,468	753	0	0	0	0
Rhode Island	729	4,486	-84.0%	0	0	729	4,486	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	70,068	85,871	-18.0%	6,672	6,056	63,072	79,670	0	0	324	145
New Jersey	14,853	23,117	-36.0%	0	0	14,853	23,117	0	0	0	0
New York	25,985	27,922	-6.9%	6,672	6,056	19,244	21,813	0	0	69	52
Pennsylvania	29,229	34,832	-16.0%	0	0	28,974	34,740	0	0	255	92
East North Central	54,019	73,383	-26.0%	22,062	31,890	30,038	40,007	534	507	1,385	979
Illinois	5,756	11,205	-49.0%	14	1,345	5,739	9,856	0	0	3	4
Indiana	11,050	12,949	-15.0%	8,655	10,028	2,395	2,921	0	0	0	0
Michigan	16,773	18,370	-8.7%	3,707	4,916	11,938	12,358	534	507	593	589
Ohio	14,750	17,844	-17.0%	5,259	3,917	8,961	13,919	0	0	531	8
Wisconsin	5,690	13,016	-56.0%	4,427	11,684	1,005	953	0	0	257	379
West North Central	2,053	10,513	-80.0%	1,789	9,023	13	1,385	127	102	123	2
Iowa	182	1,861	-90.0%	82	1,860	0	0	0	0	100	2
Kansas	1,155	768	50.0%	1,155	768	0	0	0	0	0	0
Minnesota	105	4,873	-98.0%	69	4,015	13	858	1	1	23	0
Missouri	397	2,279	-83.0%	270	1,649	0	528	127	102	0	0
Nebraska	121	143	-15.0%	121	143	0	0	0	0	0	0
North Dakota	92	102	-10.0%	92	102	0	0	0	0	0	0
South Dakota	0	487	-100.0%	0	487	0	0	0	0	0	0
South Atlantic	168,107	187,463	-10.0%	142,473	151,560	22,524	33,127	0	0	3,111	2,776
Delaware	2,721	4,715	-42.0%	0	0	2,721	3,530	0	0	0	1,185
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	81,022	88,835	-8.8%	80,103	82,240	659	6,595	0	0	260	0
Georgia	23,290	30,038	-22.0%	17,115	22,905	5,270	6,436	0	0	905	697
Maryland	3,965	4,136	-4.1%	0	0	3,751	3,951	0	0	215	185
North Carolina	23,040	28,072	-18.0%	20,516	25,746	2,436	2,326	0	0	89	0
South Carolina	8,471	9,666	-12.0%	6,688	4,876	1,686	4,575	0	0	98	215
Virginia	24,598	20,895	18.0%	17,835	15,740	5,937	4,690	0	0	826	465
West Virginia	1,000	1,107	-9.6%	217	52	65	1,026	0	0	719	29
East South Central	66,974	69,297	-3.4%	44,444	44,841	20,986	23,758	0	0	1,545	698
Alabama	26,422	29,414	-10.0%	8,475	8,734	17,947	20,680	0	0	0	0
Kentucky	4,859	6,078	-20.0%	4,273	5,553	586	526	0	0	0	0
Mississippi	26,029	26,192	-0.6%	23,575	23,639	2,453	2,553	0	0	0	0
Tennessee	9,665	7,613	27.0%	8,121	6,915	0	0	0	0	1,545	698
West South Central	151,691	226,122	-33.0%	30,023	65,904	78,012	109,613	0	0	43,656	50,605
Arkansas	6,678	12,851	-48.0%	5	4,596	6,444	8,046	0	0	228	209
Louisiana	33,389	44,614	-25.0%	15,050	20,949	3,587	6,316	0	0	14,752	17,349
Oklahoma	10,803	17,564	-38.0%	6,136	13,185	4,529	4,379	0	0	139	0
Texas	100,822	151,093	-33.0%	8,833	27,174	63,452	90,872	0	0	28,537	33,047
Mountain	31,464	46,889	-33.0%	27,819	38,553	3,535	8,101	0	0	110	235
Arizona	7,211	13,967	-48.0%	6,251	9,907	960	4,060	0	0	0	0
Colorado	5,274	7,068	-25.0%	4,391	6,058	884	1,010	0	0	0	0
Idaho	0	1,611	-100.0%	0	867	0	744	0	0	0	0
Montana	240	0	--	240	0	0	0	0	0	0	0
Nevada	11,985	14,162	-15.0%	11,985	14,162	0	0	0	0	0	0
New Mexico	4,597	5,630	-18.0%	3,047	3,389	1,551	2,241	0	0	0	0
Utah	2,144	4,440	-52.0%	1,894	4,159	140	47	0	0	110	235
Wyoming	12	9	24.0%	12	9	0	0	0	0	0	0
Pacific Contiguous	32,523	45,331	-28.0%	12,835	20,961	16,859	20,792	0	0	2,828	3,578
California	29,923	35,074	-15.0%	11,814	15,654	15,281	15,842	0	0	2,828	3,578
Oregon	1,579	7,300	-78.0%	0	3,218	1,579	4,082	0	0	0	0
Washington	1,021	2,957	-65.0%	1,021	2,089	0	868	0	0	0	0
Pacific Noncontiguous	120	1,196	-90.0%	120	1,196	0	0	0	0	0	0
Alaska	120	1,196	-90.0%	120	1,196	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	597,210	770,399	-22.0%	288,239	370,058	255,227	340,715	662	610	53,082	59,017

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	60,706	75,259	-19.0%	4	110	60,702	75,149	0	0	0	0
Connecticut	25,245	28,335	-11.0%	0	0	25,245	28,335	0	0	0	0
Maine	5	5,011	-100.0%	0	0	5	5,011	0	0	0	0
Massachusetts	29,672	28,357	4.6%	0	109	29,672	28,248	0	0	0	0
New Hampshire	3,478	4,107	-15.0%	4	1	3,475	4,106	0	0	0	0
Rhode Island	2,305	9,449	-76.0%	0	0	2,305	9,449	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	195,169	244,454	-20.0%	19,196	20,268	175,153	223,604	0	0	821	582
New Jersey	33,891	65,269	-48.0%	0	0	33,891	65,269	0	0	0	0
New York	72,773	81,080	-10.0%	19,196	20,268	53,355	60,544	0	0	222	268
Pennsylvania	88,505	98,106	-9.8%	0	0	87,906	97,792	0	0	599	314
East North Central	143,358	203,558	-30.0%	54,661	88,960	82,960	110,086	1,687	2,012	4,050	2,500
Illinois	16,029	26,675	-40.0%	45	1,923	15,967	24,743	0	0	17	9
Indiana	29,531	36,788	-20.0%	23,138	28,750	6,393	8,038	0	0	0	0
Michigan	41,265	50,967	-19.0%	7,819	13,481	30,000	34,074	1,687	2,012	1,759	1,400
Ohio	42,871	56,442	-24.0%	12,519	14,772	28,897	41,580	0	0	1,455	90
Wisconsin	13,663	32,686	-58.0%	11,141	30,034	1,704	1,651	0	0	818	1,001
West North Central	5,078	31,779	-84.0%	4,236	27,673	13	3,823	237	278	592	4
Iowa	820	6,417	-87.0%	270	6,413	0	0	0	0	550	4
Kansas	2,545	1,920	33.0%	2,545	1,920	0	0	0	0	0	0
Minnesota	149	14,890	-99.0%	92	12,724	13	2,164	2	1	42	0
Missouri	960	6,483	-85.0%	725	4,547	0	1,659	235	277	0	0
Nebraska	303	307	-1.6%	303	307	0	0	0	0	0	0
North Dakota	302	329	-8.2%	302	329	0	0	0	0	0	0
South Dakota	0	1,432	-100.0%	0	1,432	0	0	0	0	0	0
South Atlantic	461,890	529,563	-13.0%	398,417	440,287	54,863	80,079	0	0	8,610	9,197
Delaware	5,916	10,829	-45.0%	0	0	5,916	7,520	0	0	0	3,310
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	215,116	250,746	-14.0%	213,369	236,859	1,056	13,888	0	0	691	0
Georgia	75,504	86,746	-13.0%	58,566	67,609	14,547	16,224	0	0	2,391	2,912
Maryland	6,787	7,623	-11.0%	0	0	6,159	7,133	0	0	628	491
North Carolina	65,699	76,119	-14.0%	58,493	69,326	6,962	6,793	0	0	244	0
South Carolina	22,776	27,033	-16.0%	19,690	20,322	2,756	6,164	0	0	330	547
Virginia	67,565	68,870	-1.9%	47,970	46,074	17,356	20,983	0	0	2,239	1,812
West Virginia	2,527	1,596	58.0%	329	96	110	1,375	0	0	2,088	126
East South Central	166,251	213,571	-22.0%	110,544	141,516	51,379	70,332	0	0	4,328	1,724
Alabama	68,675	89,194	-23.0%	25,339	27,197	43,336	61,997	0	0	0	0
Kentucky	8,940	15,362	-42.0%	8,149	14,629	791	733	0	0	0	0
Mississippi	66,642	87,697	-24.0%	59,390	80,095	7,252	7,602	0	0	0	0
Tennessee	21,995	21,319	3.2%	17,667	19,595	0	0	0	0	4,328	1,724
West South Central	430,543	654,533	-34.0%	79,466	184,765	217,163	318,495	0	0	133,914	151,273
Arkansas	12,700	27,798	-54.0%	13	12,416	12,045	14,660	0	0	643	723
Louisiana	94,859	132,265	-28.0%	38,618	62,543	7,953	16,341	0	0	48,288	53,381
Oklahoma	33,986	55,572	-39.0%	21,208	40,534	12,486	15,038	0	0	292	0
Texas	288,997	438,897	-34.0%	19,627	69,273	184,679	272,455	0	0	84,691	97,169
Mountain	103,540	141,938	-27.0%	89,851	115,017	13,446	26,672	0	0	243	248
Arizona	22,192	41,354	-46.0%	17,763	28,056	4,429	13,298	0	0	0	0
Colorado	18,188	20,751	-12.0%	15,252	17,315	2,936	3,436	0	0	0	0
Idaho	0	6,594	-100.0%	0	3,627	0	2,967	0	0	0	0
Montana	688	0	--	688	0	0	0	0	0	0	0
Nevada	38,229	43,715	-13.0%	38,229	43,715	0	0	0	0	0	0
New Mexico	15,050	16,985	-11.0%	9,251	10,078	5,798	6,906	0	0	0	0
Utah	9,069	12,520	-28.0%	8,543	12,207	282	65	0	0	243	248
Wyoming	124	19	553.0%	124	19	0	0	0	0	0	0
Pacific Contiguous	134,598	175,615	-23.0%	52,591	72,248	72,958	93,056	0	0	9,048	10,312
California	114,811	131,801	-13.0%	44,650	51,329	61,113	70,160	0	0	9,048	10,312
Oregon	14,304	26,857	-47.0%	2,459	10,416	11,846	16,442	0	0	0	0
Washington	5,483	16,957	-68.0%	5,483	10,503	0	6,454	0	0	0	0
Pacific Noncontiguous	390	3,637	-89.0%	390	3,637	0	0	0	0	0	0
Alaska	390	3,637	-89.0%	390	3,637	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,701,523	2,273,907	-25.0%	809,356	1,094,482	728,637	1,001,297	1,924	2,290	161,605	175,839

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.05	2.23	-8.1%	--	--	2.05	2.23
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	2.02	2.09	-3.3%	2.11	2.18	1.90	1.95
Illinois	W	W	W	1.84	1.99	W	W
Indiana	W	W	W	2.16	2.24	W	W
Michigan	2.18	2.30	-5.2%	2.18	2.30	--	--
Ohio	1.93	2.08	-7.2%	1.74	1.92	1.99	2.13
Wisconsin	2.31	2.25	2.7%	2.31	2.25	--	--
West North Central	1.76	1.74	1.1%	1.76	1.74	--	--
Iowa	1.68	1.62	3.7%	1.68	1.62	--	--
Kansas	1.72	1.67	3.0%	1.72	1.67	--	--
Minnesota	2.12	2.07	2.4%	2.12	2.07	--	--
Missouri	1.82	1.84	-1.1%	1.82	1.84	--	--
Nebraska	1.40	1.35	3.7%	1.40	1.35	--	--
North Dakota	1.62	1.62	0.0%	1.62	1.62	--	--
South Dakota	2.26	2.40	-5.8%	2.26	2.40	--	--
South Atlantic	2.71	2.76	-1.8%	2.75	2.79	2.43	2.51
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.98	3.05	-2.3%	2.98	3.05	--	--
Georgia	2.71	2.89	-6.2%	2.71	2.89	--	--
Maryland	2.80	2.86	-2.1%	--	--	2.80	2.86
North Carolina	W	3.06	W	2.92	3.06	W	--
South Carolina	3.30	3.20	3.1%	3.30	3.20	--	--
Virginia	W	W	W	2.69	2.95	W	W
West Virginia	W	W	W	2.32	2.31	W	W
East South Central	W	W	W	2.02	2.22	W	W
Alabama	2.15	2.40	-10.0%	2.15	2.40	--	--
Kentucky	1.92	2.14	-10.0%	1.92	2.14	--	--
Mississippi	W	W	W	3.56	2.53	W	W
Tennessee	2.26	2.36	-4.2%	2.26	2.36	--	--
West South Central	1.90	2.01	-5.5%	2.06	2.18	1.77	1.78
Arkansas	2.10	W	W	2.10	2.32	--	W
Louisiana	W	W	W	2.24	2.76	W	W
Oklahoma	W	W	W	1.88	1.87	W	W
Texas	W	1.89	W	2.10	2.19	W	1.72
Mountain	W	W	W	1.94	1.85	W	W
Arizona	2.23	2.15	3.7%	2.23	2.15	--	--
Colorado	1.90	1.92	-1.0%	1.90	1.92	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.71	--	W	W
Nevada	W	W	W	--	1.73	W	W
New Mexico	2.01	1.70	18.0%	2.01	1.70	--	--
Utah	1.98	1.96	1.0%	1.98	1.96	--	--
Wyoming	W	1.66	W	1.65	1.66	W	--
Pacific Contiguous	W	W	W	2.32	--	W	W
California	--	--	--	--	--	--	--
Oregon	2.32	--	--	2.32	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.15	3.06	W	W
Alaska	3.15	3.06	2.9%	3.15	3.06	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.08	2.16	-3.7%	2.13	2.20	1.93	2.05

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	W	W	W	4.34	--	W	W
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	--	--	4.34	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.06	2.16	-4.6%	--	--	2.06	2.16
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	2.00	W	W	--	--	2.00	W
East North Central	2.02	2.10	-3.8%	2.12	2.19	1.89	1.97
Illinois	1.80	W	W	1.86	2.01	1.78	W
Indiana	W	W	W	2.16	2.26	W	W
Michigan	2.23	2.33	-4.3%	2.23	2.33	--	--
Ohio	W	2.09	W	1.76	1.97	W	2.13
Wisconsin	2.26	2.15	5.1%	2.26	2.15	--	--
West North Central	1.76	1.72	2.3%	1.76	1.72	--	--
Iowa	1.69	1.60	5.6%	1.69	1.60	--	--
Kansas	1.70	1.71	-0.6%	1.70	1.71	--	--
Minnesota	2.11	2.10	0.5%	2.11	2.10	--	--
Missouri	1.86	1.87	-0.5%	1.86	1.87	--	--
Nebraska	1.38	1.35	2.2%	1.38	1.35	--	--
North Dakota	1.59	1.51	5.3%	1.59	1.51	--	--
South Dakota	2.27	2.26	0.4%	2.27	2.26	--	--
South Atlantic	2.71	2.75	-1.5%	2.73	2.79	2.54	2.36
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.01	3.00	W	W
Georgia	2.74	2.89	-5.2%	2.74	2.89	--	--
Maryland	2.89	2.68	7.8%	--	--	2.89	2.68
North Carolina	W	3.11	W	2.97	3.11	W	--
South Carolina	3.32	3.26	1.8%	3.32	3.26	--	--
Virginia	W	W	W	2.68	2.94	W	W
West Virginia	W	W	W	2.23	2.30	W	W
East South Central	W	W	W	2.05	2.22	W	W
Alabama	2.16	2.41	-10.0%	2.16	2.41	--	--
Kentucky	1.96	2.13	-8.0%	1.96	2.13	--	--
Mississippi	W	W	W	3.08	2.74	W	W
Tennessee	2.24	2.27	-1.3%	2.24	2.27	--	--
West South Central	1.91	1.94	-1.5%	2.12	2.20	1.73	1.66
Arkansas	W	W	W	2.14	2.30	W	W
Louisiana	W	W	W	2.39	2.69	W	W
Oklahoma	W	W	W	1.90	1.94	W	W
Texas	1.84	1.79	2.8%	2.13	2.13	1.69	1.62
Mountain	W	W	W	1.92	1.87	W	W
Arizona	2.24	2.19	2.3%	2.24	2.19	--	--
Colorado	1.84	1.86	-1.1%	1.84	1.86	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.73	--	W	W
Nevada	W	W	W	--	1.88	W	W
New Mexico	1.97	1.95	1.0%	1.97	1.95	--	--
Utah	1.97	1.95	1.0%	1.97	1.95	--	--
Wyoming	W	1.61	W	1.70	1.61	W	--
Pacific Contiguous	W	W	W	2.40	2.32	W	W
California	--	--	--	--	--	--	--
Oregon	2.40	2.32	3.4%	2.40	2.32	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.02	3.11	W	W
Alaska	3.02	3.11	-2.9%	3.02	3.11	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.07	2.13	-2.8%	2.13	2.18	1.92	1.97

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016
New England	W	10.07	W	14.04	9.62	W	10.11
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	14.04	9.62	46.0%	14.04	9.62	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	8.46	--	W	W
New Jersey	W	W	W	--	--	W	W
New York	W	9.67	W	8.46	--	W	9.67
Pennsylvania	11.90	8.94	33.0%	--	--	11.90	8.94
East North Central	12.21	9.73	25.0%	12.28	9.81	12.13	9.61
Illinois	12.47	W	W	--	--	12.47	W
Indiana	12.53	9.72	29.0%	12.53	9.72	--	--
Michigan	11.62	9.19	26.0%	11.62	9.19	--	--
Ohio	12.22	W	W	12.94	10.30	11.97	W
Wisconsin	12.04	14.13	-15.0%	12.04	14.13	--	--
West North Central	11.98	9.10	32.0%	11.98	9.10	--	--
Iowa	11.76	10.30	14.0%	11.76	10.30	--	--
Kansas	12.15	--	--	12.15	--	--	--
Minnesota	12.30	9.70	27.0%	12.30	9.70	--	--
Missouri	11.96	9.24	29.0%	11.96	9.24	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	11.89	7.79	53.0%	11.89	7.79	--	--
South Dakota	11.98	--	--	11.98	--	--	--
South Atlantic	W	W	W	12.29	8.34	W	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	12.31	9.00	37.0%	12.31	9.00	--	--
Georgia	11.36	8.87	28.0%	11.36	8.87	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	12.11	9.18	32.0%	12.11	9.18	--	--
South Carolina	12.31	10.90	13.0%	12.31	10.90	--	--
Virginia	W	W	W	11.58	7.93	W	W
West Virginia	12.52	11.48	9.1%	12.52	11.48	--	--
East South Central	11.66	9.42	24.0%	11.66	9.42	--	--
Alabama	11.96	9.24	29.0%	11.96	9.24	--	--
Kentucky	11.67	9.47	23.0%	11.67	9.47	--	--
Mississippi	11.15	--	--	11.15	--	--	--
Tennessee	11.30	9.51	19.0%	11.30	9.51	--	--
West South Central	W	W	W	12.55	10.02	W	W
Arkansas	--	W	W	--	9.76	--	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	12.53	10.09	24.0%	12.53	10.09	--	--
Texas	W	W	W	12.56	10.17	W	W
Mountain	13.57	W	W	13.58	8.57	13.51	W
Arizona	13.64	8.25	65.0%	13.64	8.25	--	--
Colorado	--	8.16	--	--	8.16	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	10.55	W	W
New Mexico	10.68	8.95	19.0%	10.68	8.95	--	--
Utah	W	--	W	14.38	--	W	--
Wyoming	13.37	8.59	56.0%	13.37	8.59	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.69	5.60	W	W
Alaska	15.47	11.83	31.0%	15.47	11.83	--	--
Hawaii	W	W	W	10.69	5.60	W	W
U.S. Total	11.63	6.86	70.0%	11.58	6.69	12.02	7.48

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	W	9.92	W	14.17	9.76	W	9.95
Connecticut	W	8.57	W	--	--	W	8.57
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	22.24	W	W
New Hampshire	14.17	9.31	52.0%	14.17	9.31	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.44	7.03	77.0%	9.07	8.18	16.49	6.96
New Jersey	W	W	W	--	--	W	W
New York	12.48	6.25	100.0%	9.07	8.18	24.31	6.06
Pennsylvania	W	W	W	--	--	W	W
East North Central	12.47	8.79	42.0%	12.45	8.94	12.50	8.61
Illinois	12.71	W	W	12.04	8.66	12.72	W
Indiana	12.40	8.97	38.0%	12.40	8.97	--	--
Michigan	11.81	8.32	42.0%	11.81	8.32	--	--
Ohio	12.74	W	W	13.41	8.88	12.35	W
Wisconsin	12.25	12.47	-1.8%	12.25	12.47	--	--
West North Central	12.11	8.07	50.0%	12.11	8.07	--	--
Iowa	12.00	8.57	40.0%	12.00	8.57	--	--
Kansas	12.24	7.68	59.0%	12.24	7.68	--	--
Minnesota	12.41	9.40	32.0%	12.41	9.40	--	--
Missouri	12.40	8.39	48.0%	12.40	8.39	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	11.87	6.85	73.0%	11.87	6.85	--	--
South Dakota	11.98	7.54	59.0%	11.98	7.54	--	--
South Atlantic	12.38	W	W	12.33	8.15	13.02	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.32	8.88	39.0%	12.32	8.88	--	--
Georgia	W	8.00	W	11.78	8.18	W	7.60
Maryland	11.21	6.86	63.0%	--	--	11.21	6.86
North Carolina	W	W	W	12.35	8.22	W	W
South Carolina	12.82	9.68	32.0%	12.82	9.68	--	--
Virginia	W	W	W	12.42	7.75	W	W
West Virginia	12.86	9.47	36.0%	12.86	9.47	--	--
East South Central	W	W	W	12.19	8.26	W	W
Alabama	W	W	W	12.90	8.18	W	W
Kentucky	12.08	8.61	40.0%	12.08	8.61	--	--
Mississippi	12.05	7.75	55.0%	12.05	7.75	--	--
Tennessee	12.15	8.07	51.0%	12.15	8.07	--	--
West South Central	12.75	8.69	47.0%	12.50	8.81	12.83	8.14
Arkansas	W	W	W	12.09	8.35	W	W
Louisiana	--	W	W	--	--	--	W
Oklahoma	13.01	10.77	21.0%	13.01	10.77	--	--
Texas	W	W	W	12.50	9.09	W	W
Mountain	13.34	W	W	13.34	9.37	13.39	W
Arizona	13.77	9.84	40.0%	13.77	9.84	--	--
Colorado	12.47	9.00	39.0%	12.47	9.00	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	10.99	W	W
New Mexico	12.56	8.75	44.0%	12.56	8.75	--	--
Utah	W	7.73	W	13.77	7.73	W	--
Wyoming	13.31	10.15	31.0%	13.31	10.15	--	--
Pacific Contiguous	W	W	W	13.51	--	W	W
California	--	--	--	--	--	--	--
Oregon	13.51	--	--	13.51	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.83	6.51	W	W
Alaska	16.28	11.55	41.0%	16.28	11.55	--	--
Hawaii	W	W	W	10.83	6.50	W	W
U.S. Total	11.72	7.26	61.0%	11.42	7.20	12.93	7.47

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.50	W	W	1.50	1.19	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.97	--	--	0.97	--	--
Michigan	1.49	1.30	15.0%	1.49	1.30	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.82	1.71	6.4%	1.82	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.56	1.31	95.0%	2.56	1.31	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.56	1.31	95.0%	2.56	1.31	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.49	--	--	1.49	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.49	--	--	1.49	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.09	1.10	90.0%	2.09	1.10	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.09	1.10	90.0%	2.09	1.10	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.06	W	W	2.06	1.21	--	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.50	W	W	1.50	1.06	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.48	1.29	15.0%	1.48	1.29	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.78	1.72	3.5%	1.78	1.72	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.73	1.23	122.0%	2.73	1.23	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.73	1.23	122.0%	2.73	1.23	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.49	1.61	-7.5%	1.49	1.61	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.49	1.61	-7.5%	1.49	1.61	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.08	1.09	91.0%	2.08	1.09	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.08	1.09	91.0%	2.08	1.09	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.06	1.34	54.0%	2.06	1.16	--	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, March 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017	March 2016	Percentage Change	March 2017	March 2016	March 2017	March 2016
New England	4.32	2.82	53.0%	9.36	2.24	4.32	2.83
Connecticut	W	4.50	W	--	--	W	4.50
Maine	W	W	W	--	--	W	W
Massachusetts	4.23	1.93	119.0%	--	2.19	4.23	1.92
New Hampshire	W	W	W	9.36	9.26	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.41	1.69	102.0%	4.14	2.34	3.32	1.63
New Jersey	3.33	1.56	113.0%	--	--	3.33	1.56
New York	4.13	2.15	92.0%	4.14	2.34	4.13	2.09
Pennsylvania	2.76	1.38	100.0%	--	--	2.76	1.38
East North Central	2.95	1.99	48.0%	3.02	2.09	2.90	1.90
Illinois	W	2.29	W	3.92	2.24	W	2.30
Indiana	W	W	W	2.96	2.06	W	W
Michigan	3.06	2.07	48.0%	3.13	2.28	3.04	1.98
Ohio	2.77	1.53	81.0%	2.88	1.49	2.71	1.55
Wisconsin	W	W	W	3.20	2.22	W	W
West North Central	3.54	W	W	3.54	2.34	--	W
Iowa	4.48	2.11	112.0%	4.48	2.11	--	--
Kansas	3.42	2.75	24.0%	3.42	2.75	--	--
Minnesota	3.31	W	W	3.31	2.63	--	W
Missouri	2.53	W	W	2.53	1.92	--	W
Nebraska	4.89	2.19	123.0%	4.89	2.19	--	--
North Dakota	5.52	1.91	189.0%	5.52	1.91	--	--
South Dakota	--	1.72	--	--	1.72	--	--
South Atlantic	3.78	2.89	31.0%	3.82	3.01	3.46	2.00
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.93	W	W	3.93	3.39	--	W
Georgia	W	2.16	W	3.60	2.19	W	2.05
Maryland	4.61	2.54	81.0%	--	--	4.61	2.54
North Carolina	W	W	W	3.89	3.05	W	W
South Carolina	W	W	W	3.57	3.09	W	W
Virginia	W	W	W	3.59	2.21	W	W
West Virginia	W	1.76	W	3.10	1.58	W	1.77
East South Central	3.16	2.06	53.0%	3.15	2.09	3.18	1.98
Alabama	W	W	W	3.49	2.28	W	W
Kentucky	W	W	W	3.12	2.12	W	W
Mississippi	W	W	W	3.09	2.02	W	W
Tennessee	2.98	2.04	46.0%	2.98	2.04	--	--
West South Central	2.99	1.86	61.0%	3.11	1.95	2.93	1.79
Arkansas	W	W	W	3.20	1.96	W	W
Louisiana	W	W	W	3.06	1.90	W	W
Oklahoma	W	W	W	3.37	1.97	W	W
Texas	2.94	1.85	59.0%	3.02	1.98	2.92	1.80
Mountain	3.55	W	W	3.54	2.32	3.74	W
Arizona	W	W	W	3.88	2.32	W	W
Colorado	W	W	W	3.68	2.72	W	W
Idaho	--	2.26	--	--	2.26	--	--
Montana	2.03	--	--	2.03	--	--	--
Nevada	3.47	2.22	56.0%	3.47	2.22	--	--
New Mexico	3.13	2.41	30.0%	3.13	2.41	--	--
Utah	W	W	W	3.30	1.94	W	W
Wyoming	10.36	4.17	148.0%	10.36	4.17	--	--
Pacific Contiguous	3.42	2.49	37.0%	3.70	2.84	3.18	2.10
California	W	2.51	W	3.73	2.81	W	2.21
Oregon	W	W	W	--	1.82	W	W
Washington	3.42	W	W	3.42	4.48	--	W
Pacific Noncontiguous	8.09	6.31	28.0%	8.09	6.31	--	--
Alaska	8.09	6.31	28.0%	8.09	6.31	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.41	2.26	51.0%	3.56	2.53	3.21	1.90

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) March 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2017 YTD	March 2016 YTD	Percentage Change	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	5.19	4.03	29.0%	9.02	3.09	5.19	4.03
Connecticut	6.17	5.37	15.0%	--	--	6.17	5.37
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.15	W	--	3.06	W	3.15
New Hampshire	W	W	W	9.02	6.73	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.83	2.46	56.0%	4.92	3.37	3.69	2.37
New Jersey	3.53	2.38	48.0%	--	--	3.53	2.38
New York	4.58	3.02	52.0%	4.92	3.37	4.43	2.88
Pennsylvania	3.31	2.06	61.0%	--	--	3.31	2.06
East North Central	3.20	2.23	43.0%	3.22	2.38	3.19	2.11
Illinois	W	W	W	4.79	2.52	W	W
Indiana	W	W	W	3.11	2.43	W	W
Michigan	3.21	2.30	40.0%	3.33	2.46	3.18	2.24
Ohio	3.16	1.84	72.0%	3.04	1.88	3.21	1.82
Wisconsin	W	W	W	3.58	2.52	W	W
West North Central	4.13	W	W	4.13	2.70	--	W
Iowa	4.67	2.47	89.0%	4.67	2.47	--	--
Kansas	4.12	3.57	15.0%	4.12	3.57	--	--
Minnesota	3.52	W	W	3.52	2.90	--	W
Missouri	2.98	W	W	2.98	2.32	--	W
Nebraska	5.33	2.60	105.0%	5.33	2.60	--	--
North Dakota	5.41	2.19	147.0%	5.41	2.19	--	--
South Dakota	--	2.02	--	--	2.02	--	--
South Atlantic	4.10	3.32	23.0%	4.16	3.42	3.47	2.35
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.32	W	W	4.32	3.73	--	W
Georgia	W	2.55	W	3.67	2.58	W	2.41
Maryland	W	3.47	W	--	--	W	3.47
North Carolina	W	W	W	4.18	3.55	W	W
South Carolina	W	W	W	3.57	3.09	W	W
Virginia	W	W	W	4.26	3.07	W	W
West Virginia	W	W	W	3.14	1.78	W	W
East South Central	3.42	2.56	34.0%	3.46	2.63	3.34	2.38
Alabama	W	W	W	3.63	2.53	W	W
Kentucky	W	W	W	4.26	2.85	W	W
Mississippi	W	W	W	3.35	2.70	W	W
Tennessee	3.22	2.30	40.0%	3.22	2.30	--	--
West South Central	3.17	2.16	47.0%	3.36	2.26	3.08	2.09
Arkansas	W	W	W	3.36	2.21	W	W
Louisiana	W	W	W	3.34	2.23	W	W
Oklahoma	W	W	W	3.44	2.32	W	W
Texas	3.12	2.14	46.0%	3.33	2.26	3.09	2.11
Mountain	3.86	W	W	3.86	2.65	4.03	W
Arizona	W	W	W	4.33	2.73	W	W
Colorado	W	W	W	3.78	2.96	W	W
Idaho	--	2.42	--	--	2.42	--	--
Montana	2.17	--	--	2.17	--	--	--
Nevada	3.81	2.59	47.0%	3.81	2.59	--	--
New Mexico	3.49	2.54	37.0%	3.49	2.54	--	--
Utah	W	W	W	3.74	2.37	W	W
Wyoming	W	6.41	W	4.92	6.41	W	--
Pacific Contiguous	3.88	2.74	42.0%	4.22	3.09	3.62	2.43
California	W	2.79	W	4.24	3.16	W	2.50
Oregon	W	W	W	3.40	2.15	W	W
Washington	4.46	W	W	4.46	3.74	--	W
Pacific Noncontiguous	8.09	6.38	27.0%	8.09	6.38	--	--
Alaska	8.09	6.38	27.0%	8.09	6.38	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.74	2.69	39.0%	3.91	2.92	3.50	2.37

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, March 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	8	1.45	7.0	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	8	1.45	7.0	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,556	3.04	8.8	0	--	--	0	--	--
New Jersey	61	1.80	7.3	0	--	--	0	--	--
New York	25	2.63	7.9	0	--	--	0	--	--
Pennsylvania	1,470	3.09	8.9	0	--	--	0	--	--
East North Central	5,631	3.12	9.7	5,471	0.23	4.7	0	--	--
Illinois	845	3.54	17.9	2,754	0.23	4.6	0	--	--
Indiana	2,286	2.84	8.5	103	0.28	4.6	0	--	--
Michigan	97	2.40	7.8	1,321	0.24	4.8	0	--	--
Ohio	2,342	3.30	8.7	30	0.37	5.2	0	--	--
Wisconsin	62	2.76	7.7	1,263	0.24	5.0	0	--	--
West North Central	109	3.32	9.6	6,990	0.27	4.9	1,952	0.90	9.9
Iowa	44	3.55	8.0	953	0.24	4.7	0	--	--
Kansas	15	3.09	13.7	811	0.35	4.9	0	--	--
Minnesota	0	--	--	1,019	0.33	5.7	0	--	--
Missouri	50	3.19	9.7	3,113	0.24	4.6	0	--	--
Nebraska	0	--	--	1,010	0.28	5.2	0	--	--
North Dakota	0	--	--	0	--	--	1,952	0.90	9.9
South Dakota	0	--	--	84	0.42	5.7	0	--	--
South Atlantic	6,338	2.29	10.1	843	0.36	5.1	0	--	--
Delaware	59	2.49	7.6	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,228	2.38	8.3	0	--	--	0	--	--
Georgia	621	2.45	8.1	843	0.36	5.1	0	--	--
Maryland	314	2.15	10.8	0	--	--	0	--	--
North Carolina	1,117	1.69	9.4	0	--	--	0	--	--
South Carolina	588	1.64	8.5	0	--	--	0	--	--
Virginia	438	0.96	18.7	0	--	--	0	--	--
West Virginia	1,973	2.99	10.9	0	--	--	0	--	--
East South Central	2,628	2.63	9.6	1,863	0.26	4.8	299	0.51	13.5
Alabama	401	1.46	11.5	832	0.30	4.9	0	--	--
Kentucky	1,905	3.03	9.5	902	0.23	4.7	0	--	--
Mississippi	36	0.62	11.2	0	--	--	299	0.51	13.5
Tennessee	285	1.86	7.8	128	0.21	4.6	0	--	--
West South Central	118	2.19	16.0	5,989	0.29	5.3	2,316	1.16	18.0
Arkansas	8	0.62	7.4	626	0.26	5.0	0	--	--
Louisiana	55	3.24	9.7	323	0.29	4.9	44	0.59	15.6
Oklahoma	56	1.35	23.9	724	0.23	4.7	0	--	--
Texas	0	--	--	4,316	0.30	5.4	2,272	1.18	18.1
Mountain	2,163	0.63	14.1	5,282	0.50	9.0	25	0.49	8.2
Arizona	514	0.59	10.5	1,023	0.58	9.7	0	--	--
Colorado	233	0.45	11.3	1,147	0.32	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.62	9.5	25	0.49	8.2
Nevada	0	--	--	64	0.28	4.7	0	--	--
New Mexico	557	0.79	22.2	511	0.82	21.0	0	--	--
Utah	859	0.60	12.4	68	1.05	8.4	0	--	--
Wyoming	0	--	--	1,894	0.42	7.5	0	--	--
Pacific Contiguous	66	0.50	10.2	86	0.44	5.3	0	--	--
California	66	0.50	10.2	0	--	--	0	--	--
Oregon	0	--	--	42	0.24	4.7	0	--	--
Washington	0	--	--	44	0.65	5.9	0	--	--
Pacific Noncontiguous	60	0.25	10.6	0	--	--	9	0.12	6.5
Alaska	0	--	--	0	--	--	9	0.12	6.5
Hawaii	60	0.25	10.6	0	--	--	0	--	--
U.S. Total	18,677	2.47	10.3	26,524	0.32	5.8	4,602	1.01	14.2

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

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

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	3,123	2.92	8.6	3,182	0.24	4.8	0	--	--
Illinois	269	3.20	10.0	495	0.22	4.5	0	--	--
Indiana	2,147	2.78	8.5	103	0.28	4.6	0	--	--
Michigan	94	2.46	7.8	1,321	0.24	4.8	0	--	--
Ohio	551	3.40	8.6	0	--	--	0	--	--
Wisconsin	62	2.76	7.7	1,263	0.24	5.0	0	--	--
West North Central	60	3.18	10.8	6,729	0.28	4.9	1,952	0.90	9.9
Iowa	0	--	--	804	0.25	4.8	0	--	--
Kansas	15	3.09	13.7	811	0.35	4.9	0	--	--
Minnesota	0	--	--	953	0.33	5.7	0	--	--
Missouri	45	3.21	9.8	3,113	0.24	4.6	0	--	--
Nebraska	0	--	--	962	0.28	5.2	0	--	--
North Dakota	0	--	--	0	--	--	1,952	0.90	9.9
South Dakota	0	--	--	84	0.42	5.7	0	--	--
South Atlantic	5,547	2.19	10.2	843	0.36	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,217	2.40	8.3	0	--	--	0	--	--
Georgia	615	2.46	8.0	843	0.36	5.1	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,074	1.73	9.5	0	--	--	0	--	--
South Carolina	588	1.64	8.5	0	--	--	0	--	--
Virginia	399	0.98	19.8	0	--	--	0	--	--
West Virginia	1,654	2.69	11.3	0	--	--	0	--	--
East South Central	2,550	2.69	9.7	1,863	0.26	4.8	0	--	--
Alabama	401	1.46	11.5	832	0.30	4.9	0	--	--
Kentucky	1,905	3.03	9.5	902	0.23	4.7	0	--	--
Mississippi	36	0.62	11.2	0	--	--	0	--	--
Tennessee	208	2.26	7.9	128	0.21	4.6	0	--	--
West South Central	55	3.24	9.7	2,995	0.27	5.1	553	1.49	21.1
Arkansas	0	--	--	626	0.26	5.0	0	--	--
Louisiana	55	3.24	9.7	61	0.26	5.2	44	0.59	15.6
Oklahoma	0	--	--	637	0.24	4.7	0	--	--
Texas	0	--	--	1,671	0.28	5.2	509	1.59	21.6
Mountain	2,163	0.63	14.1	4,597	0.49	9.0	25	0.49	8.2
Arizona	514	0.59	10.5	1,023	0.58	9.7	0	--	--
Colorado	233	0.45	11.3	1,147	0.32	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	25	0.49	8.2
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	557	0.79	22.2	511	0.82	21.0	0	--	--
Utah	859	0.60	12.4	68	1.05	8.4	0	--	--
Wyoming	0	--	--	1,848	0.42	7.5	0	--	--
Pacific Contiguous	0	--	--	42	0.24	4.7	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	42	0.24	4.7	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.12	6.5
Alaska	0	--	--	0	--	--	9	0.12	6.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	13,498	2.24	10.3	20,249	0.32	5.9	2,540	1.01	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, March 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	8	1.45	7.0	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	8	1.45	7.0	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,521	3.05	8.8	0	--	--	0	--	--
New Jersey	61	1.80	7.3	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,459	3.10	8.9	0	--	--	0	--	--
East North Central	2,393	3.36	11.3	2,208	0.21	4.5	0	--	--
Illinois	464	3.75	26.6	2,178	0.21	4.5	0	--	--
Indiana	139	3.74	8.6	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,790	3.27	8.8	30	0.37	5.2	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	706	3.19	9.3	0	--	--	0	--	--
Delaware	59	2.49	7.6	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	294	2.16	10.2	0	--	--	0	--	--
North Carolina	11	0.77	6.1	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	23	0.76	9.9	0	--	--	0	--	--
West Virginia	319	4.51	8.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	299	0.51	13.5
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	299	0.51	13.5
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	56	1.35	23.9	2,949	0.31	5.5	1,763	1.07	17.1
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	263	0.30	4.9	0	--	--
Oklahoma	56	1.35	23.9	42	0.26	4.4	0	--	--
Texas	0	--	--	2,645	0.32	5.6	1,763	1.07	17.1
Mountain	0	--	--	685	0.58	8.8	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.62	9.5	0	--	--
Nevada	0	--	--	64	0.28	4.7	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	47	0.49	6.7	0	--	--
Pacific Contiguous	0	--	--	44	0.65	5.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	44	0.65	5.9	0	--	--
Pacific Noncontiguous	60	0.25	10.6	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	60	0.25	10.6	0	--	--	0	--	--
U.S. Total	4,744	3.17	10.3	5,887	0.31	5.5	2,062	1.00	16.7

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

Notes:
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, March 2017

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	5	3.02	8.4	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	5	3.02	8.4	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	5	3.02	8.4	0	--	--	0	--	--

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

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

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	36	2.49	7.7	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	25	2.63	7.9	0	--	--	0	--	--
Pennsylvania	11	2.19	7.4	0	--	--	0	--	--
East North Central	115	3.56	8.5	81	0.80	6.5	0	--	--
Illinois	112	3.65	8.5	81	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	3	0.61	8.0	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	44	3.55	8.0	262	0.22	4.7	0	--	--
Iowa	44	3.55	8.0	149	0.22	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	66	0.24	5.5	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	47	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	85	1.04	10.2	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.69	6.9	0	--	--	0	--	--
Georgia	7	1.05	10.5	0	--	--	0	--	--
Maryland	20	1.88	22.1	0	--	--	0	--	--
North Carolina	32	0.92	6.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	16	0.66	7.0	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	78	0.89	7.5	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	78	0.89	7.5	0	--	--	0	--	--
West South Central	8	0.62	7.4	45	0.18	4.5	0	--	--
Arkansas	8	0.62	7.4	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	45	0.18	4.5	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	66	0.50	10.2	0	--	--	0	--	--
California	66	0.50	10.2	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	431	1.90	8.8	388	0.34	5.1	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 - March 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
Year to Date					
2015	378,770	324,898	236,067	2,052	941,787
2016	346,707	317,926	225,708	1,916	892,258
2017	333,347	315,694	224,354	1,947	875,342
Rolling 12 Months Ending in March					
2016	1,372,034	1,353,780	976,149	7,501	3,709,464
2017	1,394,035	1,357,384	934,915	7,529	3,693,862

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 - March 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
Year to Date					
2015	46,330	34,169	16,027	212	96,739
2016	42,310	32,179	14,489	181	89,159
2017	42,034	32,760	14,909	183	89,886
Rolling 12 Months Ending in March					
2016	173,604	142,791	66,627	739	383,762
2017	176,309	141,518	63,621	713	382,161

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

Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - March 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
Year to Date					
2015	12.23	10.52	6.79	10.36	10.27
2016	12.20	10.12	6.42	9.44	9.99
2017	12.61	10.38	6.65	9.42	10.27
Rolling 12 Months Ending in March					
2016	12.65	10.55	6.83	9.85	10.35
2017	12.65	10.43	6.80	9.47	10.35

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, March 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	3,857	3,747	4,198	4,228	1,350	1,378	53	49	9,459	9,403
Connecticut	1,020	1,012	976	1,003	242	259	18	16	2,257	2,291
Maine	442	418	362	345	220	235	0	0	1,023	998
Massachusetts	1,597	1,523	2,036	2,051	549	545	33	30	4,214	4,149
New Hampshire	367	384	352	375	159	164	0	0	879	922
Rhode Island	250	234	305	292	64	64	2	2	621	593
Vermont	181	176	168	163	116	111	0	0	465	450
Middle Atlantic	10,642	10,069	12,382	12,591	5,772	5,748	330	309	29,125	28,717
New Jersey	2,125	1,916	3,101	3,032	627	571	26	25	5,879	5,543
New York	3,942	3,866	5,731	6,090	1,284	1,355	237	229	11,194	11,539
Pennsylvania	4,575	4,287	3,550	3,469	3,861	3,823	66	56	12,052	11,634
East North Central	14,251	13,643	14,969	14,547	15,423	15,592	41	47	44,684	43,829
Illinois	3,232	3,183	4,007	3,908	3,460	3,522	35	41	10,733	10,653
Indiana	2,445	2,356	1,918	1,884	3,456	3,632	2	2	7,821	7,875
Michigan	2,700	2,577	3,158	3,090	2,464	2,565	0	0	8,322	8,232
Ohio	4,112	3,864	3,896	3,739	4,059	3,925	4	4	12,072	11,532
Wisconsin	1,762	1,663	1,990	1,927	1,985	1,948	0	0	5,736	5,538
West North Central	7,919	7,573	8,145	7,976	7,129	6,777	4	4	23,197	22,330
Iowa	1,126	1,111	1,002	1,005	1,889	1,741	0	0	4,017	3,857
Kansas	860	806	1,176	1,128	856	839	0	0	2,892	2,773
Minnesota	1,849	1,746	1,925	1,870	1,740	1,631	2	2	5,516	5,250
Missouri	2,411	2,393	2,354	2,328	947	956	2	2	5,715	5,680
Nebraska	788	730	714	733	839	787	0	0	2,341	2,250
North Dakota	473	405	567	520	642	607	0	0	1,682	1,533
South Dakota	412	382	407	390	215	214	0	0	1,034	986
South Atlantic	25,426	25,090	24,393	23,752	11,473	11,022	116	106	61,408	59,970
Delaware	387	376	328	334	168	137	0	0	883	846
District of Columbia	186	174	644	708	14	16	25	23	869	921
Florida	7,889	8,302	7,149	7,213	1,342	1,314	8	8	16,388	16,837
Georgia	3,799	3,754	3,572	3,605	2,608	2,623	13	13	9,993	9,995
Maryland	2,232	2,116	2,333	2,360	300	274	55	46	4,920	4,795
North Carolina	4,287	4,169	3,721	3,658	2,218	2,140	0	1	10,226	9,967
South Carolina	2,064	2,023	1,683	1,585	2,165	2,071	0	0	5,911	5,679
Virginia	3,520	3,292	4,298	3,702	1,498	1,370	14	16	9,331	8,379
West Virginia	1,063	885	665	588	1,159	1,077	0	0	2,887	2,550
East South Central	8,149	8,415	6,783	6,824	8,166	7,858	0	0	23,098	23,097
Alabama	2,128	2,098	1,714	1,717	2,770	2,603	0	0	6,612	6,417
Kentucky	1,955	1,915	1,484	1,455	2,285	2,267	0	0	5,724	5,637
Mississippi	1,181	1,239	1,008	1,013	1,364	1,340	0	0	3,553	3,591
Tennessee	2,885	3,163	2,577	2,640	1,746	1,649	0	0	7,208	7,452
West South Central	13,486	13,377	14,703	14,261	14,298	13,607	14	15	42,501	41,259
Arkansas	1,218	1,267	906	879	1,319	1,253	0	0	3,443	3,399
Louisiana	1,938	1,967	1,862	1,814	2,578	2,657	1	1	6,379	6,439
Oklahoma	1,514	1,438	1,614	1,516	1,406	1,358	0	0	4,534	4,312
Texas	8,816	8,704	10,321	10,052	8,996	8,339	13	14	28,146	27,109
Mountain	6,721	6,400	7,540	7,350	6,454	6,446	12	11	20,726	20,207
Arizona	2,042	1,857	2,229	2,227	1,132	1,225	0	0	5,404	5,309
Colorado	1,428	1,426	1,653	1,641	1,257	1,211	6	6	4,344	4,283
Idaho	701	678	513	499	522	480	0	0	1,736	1,658
Montana	450	407	409	399	340	328	0	0	1,199	1,134
Nevada	769	708	852	730	987	1,063	1	1	2,609	2,501
New Mexico	455	452	684	672	592	608	0	0	1,731	1,731
Utah	630	632	876	881	773	704	5	5	2,283	2,221
Wyoming	246	241	323	302	852	827	0	0	1,421	1,370
Pacific Contiguous	12,346	11,439	13,383	13,161	6,536	7,066	74	68	32,339	31,735
California	6,872	6,449	9,441	9,365	3,564	4,151	72	66	19,948	20,030
Oregon	1,771	1,673	1,361	1,333	922	900	2	2	4,056	3,908
Washington	3,703	3,318	2,581	2,463	2,051	2,015	0	0	8,335	7,796
Pacific Noncontiguous	413	369	496	489	417	413	0	0	1,325	1,271
Alaska	198	171	241	240	118	118	0	0	558	529
Hawaii	215	198	254	250	299	295	0	0	768	742
U.S. Total	103,210	100,123	106,991	105,180	77,018	75,907	644	610	287,863	281,819

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. OPTIONS NOCENTER

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	12,112	12,064	12,611	12,818	3,954	4,132	152	147	28,829	29,162
Connecticut	3,286	3,309	2,966	3,078	727	766	49	45	7,028	7,199
Maine	1,310	1,259	1,020	993	635	692	0	0	2,965	2,945
Massachusetts	5,007	4,980	6,184	6,261	1,590	1,643	96	95	12,877	12,979
New Hampshire	1,200	1,193	1,085	1,118	472	481	0	0	2,757	2,792
Rhode Island	746	752	869	872	183	188	7	7	1,805	1,819
Vermont	563	572	488	497	347	361	0	0	1,398	1,430
Middle Atlantic	33,151	33,430	38,092	38,407	17,236	17,499	1,018	985	89,497	90,322
New Jersey	6,391	6,453	9,143	9,191	1,769	1,680	79	79	17,381	17,403
New York	12,249	12,280	18,263	18,320	3,882	4,174	722	714	35,116	35,489
Pennsylvania	14,511	14,697	10,686	10,896	11,586	11,646	217	191	37,000	37,430
East North Central	45,660	47,485	44,134	44,432	44,345	45,683	144	157	134,283	137,757
Illinois	10,572	11,026	12,138	12,269	10,044	10,205	125	136	32,878	33,636
Indiana	8,019	8,677	5,641	5,760	9,844	10,802	5	6	23,508	25,244
Michigan	8,417	8,437	9,282	9,242	7,124	7,355	1	1	24,824	25,035
Ohio	13,003	13,726	11,217	11,324	11,588	11,587	13	14	35,821	36,651
Wisconsin	5,650	5,619	5,856	5,837	5,745	5,734	0	0	17,252	17,190
West North Central	26,792	27,075	24,486	24,692	20,542	20,272	13	12	71,833	72,052
Iowa	3,797	3,794	3,031	3,045	5,335	5,109	0	0	12,162	11,948
Kansas	2,912	3,041	3,481	3,546	2,567	2,548	0	0	8,959	9,135
Minnesota	5,979	5,824	5,678	5,696	4,978	4,823	7	7	16,641	16,350
Missouri	8,401	8,961	7,084	7,266	2,739	3,013	7	6	18,231	19,245
Nebraska	2,710	2,644	2,266	2,304	2,400	2,302	0	0	7,376	7,250
North Dakota	1,579	1,475	1,694	1,622	1,875	1,836	0	0	5,147	4,933
South Dakota	1,414	1,337	1,252	1,213	650	640	0	0	3,317	3,189
South Atlantic	80,230	88,133	70,587	72,103	32,632	32,932	330	337	183,778	193,504
Delaware	1,223	1,262	980	1,046	489	455	0	0	2,693	2,763
District of Columbia	588	615	1,892	2,151	39	47	77	79	2,595	2,892
Florida	24,204	25,681	20,834	20,737	3,892	3,900	22	23	48,953	50,341
Georgia	12,272	13,785	10,470	10,933	7,496	7,694	43	44	30,281	32,456
Maryland	6,927	7,587	6,900	7,162	864	888	143	142	14,834	15,779
North Carolina	13,619	15,405	10,848	11,206	6,237	6,231	1	2	30,705	32,844
South Carolina	6,620	7,662	4,783	5,021	6,374	6,369	0	0	17,777	19,052
Virginia	11,633	12,563	12,016	11,886	4,019	4,153	45	48	27,712	28,650
West Virginia	3,144	3,572	1,864	1,959	3,221	3,194	0	0	8,229	8,725
East South Central	27,482	30,709	20,472	21,036	23,731	23,490	0	0	71,684	75,235
Alabama	6,884	7,846	5,048	5,216	8,025	7,943	0	0	19,958	21,005
Kentucky	6,466	7,208	4,451	4,598	6,631	6,701	0	0	17,548	18,507
Mississippi	4,017	4,442	3,056	3,077	3,999	3,979	0	0	11,073	11,499
Tennessee	10,114	11,214	7,915	8,144	5,075	4,867	0	0	23,105	24,225
West South Central	45,119	47,850	42,914	43,015	42,857	41,477	45	45	130,935	132,387
Arkansas	4,277	4,537	2,672	2,696	3,911	3,763	0	0	10,860	10,995
Louisiana	6,386	6,971	5,513	5,553	8,105	8,110	3	3	20,008	20,637
Oklahoma	5,039	5,286	4,441	4,424	4,093	4,052	0	0	13,572	13,761
Texas	29,417	31,057	30,287	30,343	26,748	25,552	42	42	86,495	86,994
Mountain	22,022	21,825	22,156	21,883	18,886	19,440	35	34	63,100	63,181
Arizona	6,282	6,341	6,352	6,432	3,260	3,628	1	1	15,896	16,403
Colorado	4,571	4,609	4,855	4,896	3,595	3,635	17	17	13,038	13,156
Idaho	2,586	2,361	1,603	1,546	1,513	1,454	0	0	5,703	5,360
Montana	1,645	1,435	1,303	1,249	1,047	1,028	0	0	3,995	3,713
Nevada	2,384	2,420	2,405	2,076	2,935	3,209	2	2	7,726	7,707
New Mexico	1,579	1,665	2,003	2,011	1,723	1,758	0	0	5,305	5,434
Utah	2,112	2,151	2,660	2,710	2,251	2,233	15	14	7,038	7,107
Wyoming	863	842	974	963	2,562	2,495	0	0	4,398	4,300
Pacific Contiguous	39,530	36,953	38,789	38,078	18,975	19,564	209	199	97,503	94,795
California	21,318	20,746	26,740	26,558	10,362	10,906	201	192	58,621	58,401
Oregon	6,139	5,483	4,124	4,011	2,717	2,651	7	6	12,987	12,151
Washington	12,072	10,725	7,925	7,510	5,897	6,007	1	1	25,895	24,243
Pacific Noncontiguous	1,251	1,182	1,454	1,461	1,195	1,220	0	0	3,900	3,863
Alaska	629	571	741	724	350	349	0	0	1,720	1,645
Hawaii	622	610	712	737	846	871	0	0	2,180	2,218
U.S. Total	333,347	346,707	315,694	317,926	224,354	225,708	1,947	1,916	875,342	892,258

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. OPTIONS NOCENTER

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	738	723	632	647	167	169	4	4	1,541	1,543
Connecticut	205	211	156	162	32	35	2	2	395	409
Maine	70	64	45	43	21	21	0	0	137	128
Massachusetts	317	302	308	319	73	72	2	2	700	695
New Hampshire	70	71	52	55	20	20	0	0	141	146
Rhode Island	45	45	46	46	9	9	0	0	101	100
Vermont	32	30	24	23	12	11	0	0	67	65
Middle Atlantic	1,646	1,554	1,509	1,521	404	406	36	33	3,595	3,515
New Jersey	331	299	375	366	62	58	2	2	770	725
New York	671	653	814	827	76	81	29	27	1,589	1,588
Pennsylvania	644	603	320	328	267	267	5	5	1,236	1,202
East North Central	1,917	1,765	1,545	1,417	1,093	1,054	3	3	4,558	4,239
Illinois	445	400	388	338	233	221	2	3	1,068	962
Indiana	293	264	197	181	255	242	0	0	745	687
Michigan	415	382	350	321	182	177	0	0	947	880
Ohio	508	482	392	369	273	267	0	0	1,174	1,118
Wisconsin	256	237	218	208	150	147	0	0	624	592
West North Central	903	845	744	714	498	462	0	0	2,145	2,021
Iowa	131	128	85	85	100	94	0	0	316	307
Kansas	114	106	121	117	64	63	0	0	300	286
Minnesota	232	214	188	177	132	115	0	0	553	506
Missouri	251	241	198	189	60	57	0	0	509	487
Nebraska	83	75	63	63	70	67	0	0	216	205
North Dakota	45	40	50	46	55	49	0	0	150	135
South Dakota	46	42	39	36	17	16	0	0	101	94
South Atlantic	3,025	2,940	2,311	2,200	730	654	9	8	6,076	5,803
Delaware	54	50	36	35	14	11	0	0	103	97
District of Columbia	24	23	79	82	1	1	2	2	107	109
Florida	928	933	688	664	106	102	1	1	1,723	1,699
Georgia	446	418	364	336	147	131	1	1	957	885
Maryland	316	304	256	259	26	21	4	4	603	588
North Carolina	471	486	318	312	132	115	0	0	922	913
South Carolina	261	260	172	157	128	112	0	0	561	529
Virginia	403	368	333	299	97	91	1	1	834	760
West Virginia	122	97	65	56	78	70	0	0	266	223
East South Central	921	898	714	678	484	429	0	0	2,118	2,005
Alabama	273	254	201	186	170	145	0	0	644	585
Kentucky	205	192	142	136	128	118	0	0	475	446
Mississippi	136	135	106	99	83	75	0	0	324	310
Tennessee	307	317	265	257	104	90	0	0	675	664
West South Central	1,460	1,428	1,230	1,113	777	707	1	1	3,469	3,250
Arkansas	120	122	72	70	73	69	0	0	265	261
Louisiana	183	180	169	161	147	138	0	0	500	479
Oklahoma	160	147	121	102	74	60	0	0	354	309
Texas	997	979	867	780	483	440	1	1	2,349	2,200
Mountain	773	723	697	668	400	378	1	1	1,871	1,771
Arizona	240	218	218	217	65	66	0	0	523	501
Colorado	170	162	158	148	92	81	1	1	420	391
Idaho	69	66	40	38	31	29	0	0	140	133
Montana	48	44	41	41	16	16	0	0	106	101
Nevada	93	87	67	61	50	51	0	0	210	199
New Mexico	58	52	68	63	38	35	0	0	164	150
Utah	68	67	75	73	47	43	0	0	190	183
Wyoming	27	26	31	28	61	58	0	0	119	112
Pacific Contiguous	1,826	1,619	1,713	1,623	549	573	6	6	4,094	3,821
California	1,297	1,139	1,369	1,296	398	431	6	6	3,070	2,872
Oregon	186	174	123	118	57	53	0	0	366	345
Washington	344	306	221	209	93	89	0	0	657	604
Pacific Noncontiguous	105	88	115	102	88	77	0	0	308	267
Alaska	43	34	48	42	21	18	0	0	112	95
Hawaii	62	54	67	60	67	59	0	0	196	173
U.S. Total	13,315	12,585	11,210	10,682	5,189	4,908	61	58	29,774	28,233

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. OPTIONS NOCENTER

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	2,310	2,302	1,907	1,965	491	505	14	13	4,721	4,786
Connecticut	648	676	470	489	96	102	5	5	1,220	1,272
Maine	209	193	127	122	60	63	0	0	397	378
Massachusetts	989	978	945	981	214	217	7	7	2,155	2,183
New Hampshire	225	218	159	164	59	61	0	0	443	442
Rhode Island	141	141	135	138	26	26	1	1	304	306
Vermont	97	96	70	71	35	37	0	0	203	204
Middle Atlantic	5,156	5,110	4,597	4,614	1,195	1,233	109	107	11,056	11,064
New Jersey	1,003	1,001	1,100	1,100	175	168	7	7	2,285	2,277
New York	2,115	2,054	2,524	2,479	217	245	87	84	4,944	4,862
Pennsylvania	2,037	2,055	972	1,035	803	820	16	15	3,827	3,925
East North Central	5,890	5,941	4,421	4,288	3,114	3,077	10	11	13,435	13,316
Illinois	1,302	1,315	1,069	1,044	651	644	8	9	3,029	3,012
Indiana	934	928	578	544	727	710	1	1	2,238	2,182
Michigan	1,291	1,242	1,025	961	525	502	0	0	2,841	2,705
Ohio	1,558	1,670	1,111	1,110	773	788	1	1	3,444	3,568
Wisconsin	806	786	638	629	438	434	0	0	1,882	1,849
West North Central	2,930	2,872	2,232	2,188	1,415	1,349	1	1	6,578	6,410
Iowa	424	413	261	256	289	274	0	0	974	942
Kansas	368	379	351	361	190	189	0	0	909	928
Minnesota	746	704	573	540	374	338	1	1	1,695	1,584
Missouri	827	844	587	585	173	178	0	0	1,588	1,608
Nebraska	267	256	195	194	178	173	0	0	639	624
North Dakota	147	135	150	142	160	148	0	0	457	426
South Dakota	151	141	115	110	50	47	0	0	316	298
South Atlantic	9,408	10,051	6,690	6,756	2,071	2,024	26	26	18,195	18,858
Delaware	163	166	102	109	39	37	0	0	304	312
District of Columbia	75	80	227	256	3	4	7	7	313	347
Florida	2,842	2,917	2,012	1,957	311	303	2	2	5,167	5,180
Georgia	1,394	1,467	1,048	1,036	415	397	2	2	2,859	2,902
Maryland	987	1,070	769	785	75	71	11	11	1,842	1,938
North Carolina	1,478	1,674	927	963	372	363	0	0	2,777	3,001
South Carolina	829	925	495	500	375	359	0	0	1,699	1,784
Virginia	1,279	1,366	928	968	263	281	3	4	2,474	2,620
West Virginia	360	384	181	183	218	207	0	0	759	774
East South Central	3,049	3,179	2,155	2,089	1,403	1,281	0	0	6,606	6,549
Alabama	866	901	592	568	481	432	0	0	1,939	1,901
Kentucky	674	709	427	425	373	351	0	0	1,474	1,485
Mississippi	445	468	316	304	244	228	0	0	1,005	1,000
Tennessee	1,063	1,102	819	792	306	270	0	0	2,188	2,164
West South Central	4,760	4,945	3,545	3,354	2,258	2,099	3	3	10,567	10,401
Arkansas	409	417	216	213	217	208	0	0	842	838
Louisiana	562	604	477	475	407	402	0	0	1,446	1,481
Oklahoma	508	489	344	302	211	181	0	0	1,062	972
Texas	3,281	3,436	2,509	2,364	1,424	1,308	3	2	7,216	7,110
Mountain	2,483	2,411	2,024	1,973	1,148	1,133	3	3	5,659	5,520
Arizona	726	718	618	626	191	194	0	0	1,535	1,539
Colorado	537	519	455	432	256	243	2	2	1,250	1,196
Idaho	247	228	122	117	88	85	0	0	457	430
Montana	175	151	130	123	51	50	0	0	356	324
Nevada	282	288	189	174	146	160	0	0	618	622
New Mexico	197	190	197	190	104	97	0	0	498	476
Utah	226	228	221	223	132	132	2	1	581	585
Wyoming	93	89	92	88	180	171	0	0	364	349
Pacific Contiguous	5,737	5,221	4,860	4,647	1,564	1,563	17	17	12,178	11,448
California	3,977	3,674	3,827	3,662	1,130	1,138	16	16	8,950	8,490
Oregon	643	565	364	352	166	157	1	1	1,174	1,074
Washington	1,118	982	669	633	267	269	0	0	2,055	1,884
Pacific Noncontiguous	311	278	329	305	250	225	0	0	890	808
Alaska	132	113	141	128	60	50	0	0	332	291
Hawaii	180	165	188	178	190	175	0	0	558	518
U.S. Total	42,034	42,310	32,760	32,179	14,909	14,489	183	181	89,886	89,159

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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. OPTIONS NOCENTER

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	19.13	19.30	15.06	15.30	12.34	12.25	7.95	8.78	16.29	16.41
Connecticut	20.06	20.84	16.03	16.11	13.21	13.44	10.20	11.77	17.50	17.87
Maine	15.92	15.41	12.49	12.36	9.61	9.12	--	--	13.35	12.88
Massachusetts	19.84	19.84	15.15	15.56	13.34	13.23	5.92	6.38	16.62	16.76
New Hampshire	18.98	18.46	14.70	14.55	12.25	12.40	--	--	16.04	15.80
Rhode Island	18.01	19.07	15.15	15.65	13.96	13.57	19.19	18.53	16.19	16.79
Vermont	17.39	17.11	14.33	14.39	10.23	10.28	--	--	14.50	14.43
Middle Atlantic	15.46	15.43	12.19	12.08	7.00	7.06	10.87	10.78	12.34	12.24
New Jersey	15.57	15.58	12.10	12.07	9.84	10.17	8.12	8.72	13.09	13.08
New York	17.02	16.89	14.21	13.58	5.89	5.99	12.14	11.59	14.20	13.76
Pennsylvania	14.08	14.06	9.01	9.46	6.91	6.98	7.42	8.38	10.25	10.33
East North Central	13.45	12.93	10.32	9.74	7.09	6.76	7.24	7.12	10.20	9.67
Illinois	13.76	12.56	9.68	8.65	6.74	6.28	6.85	6.90	9.95	9.03
Indiana	11.99	11.21	10.26	9.59	7.38	6.66	11.29	10.07	9.53	8.72
Michigan	15.38	14.83	11.08	10.39	7.39	6.89	11.99	11.21	11.38	10.69
Ohio	12.35	12.47	10.07	9.86	6.72	6.80	8.27	7.62	9.72	9.69
Wisconsin	14.51	14.23	10.94	10.81	7.57	7.57	14.29	15.00	10.87	10.70
West North Central	11.41	11.16	9.13	8.95	6.98	6.81	8.15	8.36	9.25	9.05
Iowa	11.65	11.50	8.48	8.45	5.27	5.41	--	--	7.86	7.95
Kansas	13.30	13.17	10.28	10.37	7.51	7.49	--	--	10.36	10.31
Minnesota	12.58	12.23	9.78	9.46	7.58	7.07	9.34	10.03	10.02	9.64
Missouri	10.43	10.06	8.40	8.13	6.34	5.99	6.88	6.57	8.91	8.58
Nebraska	10.52	10.31	8.88	8.63	8.34	8.50	--	--	9.24	9.13
North Dakota	9.56	9.82	8.84	8.92	8.54	8.05	--	--	8.93	8.81
South Dakota	11.11	10.98	9.47	9.22	7.97	7.60	--	--	9.81	9.55
South Atlantic	11.90	11.72	9.47	9.26	6.36	5.94	8.15	7.76	9.89	9.68
Delaware	13.86	13.39	10.95	10.51	8.20	8.34	--	--	11.70	11.44
District of Columbia	13.04	13.25	12.29	11.58	8.46	9.06	9.65	9.37	12.31	11.80
Florida	11.76	11.24	9.63	9.20	7.92	7.76	8.27	8.34	10.52	10.09
Georgia	11.73	11.14	10.19	9.32	5.65	4.98	5.29	4.26	9.58	8.86
Maryland	14.16	14.36	10.97	10.96	8.78	7.84	8.19	7.83	12.25	12.25
North Carolina	11.00	11.66	8.55	8.52	5.94	5.36	9.50	7.74	9.01	9.16
South Carolina	12.64	12.86	10.23	9.90	5.90	5.41	--	--	9.48	9.32
Virginia	11.46	11.18	7.74	8.09	6.48	6.64	7.87	7.93	8.94	9.07
West Virginia	11.52	11.00	9.79	9.55	6.73	6.47	--	--	9.20	8.75
East South Central	11.30	10.68	10.52	9.93	5.93	5.46	--	--	9.17	8.68
Alabama	12.82	12.11	11.74	10.82	6.13	5.59	--	--	9.74	9.12
Kentucky	10.48	10.05	9.56	9.32	5.61	5.20	--	--	8.30	7.91
Mississippi	11.53	10.91	10.48	9.80	6.05	5.61	--	--	9.13	8.62
Tennessee	10.63	10.01	10.28	9.73	5.94	5.47	--	--	9.37	8.91
West South Central	10.83	10.68	8.37	7.80	5.43	5.20	8.62	5.69	8.16	7.88
Arkansas	9.85	9.62	7.98	7.96	5.52	5.53	9.51	9.22	7.70	7.68
Louisiana	9.46	9.13	9.10	8.89	5.70	5.21	10.44	9.28	7.84	7.44
Oklahoma	10.54	10.24	7.50	6.72	5.24	4.43	--	--	7.82	7.17
Texas	11.31	11.25	8.40	7.76	5.37	5.27	8.48	5.41	8.35	8.11
Mountain	11.50	11.30	9.24	9.09	6.19	5.87	9.67	9.38	9.03	8.76
Arizona	11.73	11.75	9.78	9.75	5.76	5.39	8.00	8.33	9.67	9.45
Colorado	11.89	11.35	9.54	8.99	7.33	6.71	9.66	9.04	9.67	9.13
Idaho	9.92	9.80	7.73	7.66	5.95	5.98	--	--	8.08	8.05
Montana	10.74	10.92	10.04	10.24	4.77	4.74	--	--	8.81	8.89
Nevada	12.13	12.28	7.83	8.30	5.02	4.82	8.04	7.47	8.03	7.95
New Mexico	12.76	11.44	9.99	9.36	6.36	5.78	--	--	9.48	8.65
Utah	10.74	10.67	8.52	8.25	6.06	6.04	10.06	10.14	8.30	8.24
Wyoming	10.91	10.85	9.55	9.39	7.17	6.98	--	--	8.36	8.19
Pacific Contiguous	14.79	14.16	12.80	12.33	8.39	8.10	7.96	8.86	12.66	12.04
California	18.87	17.66	14.51	13.84	11.17	10.39	7.91	8.84	15.39	14.34
Oregon	10.51	10.42	9.01	8.87	6.23	5.84	9.28	9.21	9.03	8.84
Washington	9.28	9.22	8.55	8.48	4.54	4.40	9.86	9.84	7.89	7.74
Pacific Noncontiguous	25.46	23.96	23.24	20.88	21.13	18.57	--	--	23.27	21.02
Alaska	21.58	20.05	19.89	17.65	17.90	15.36	--	--	20.07	17.91
Hawaii	29.04	27.35	26.41	23.99	22.41	19.86	--	--	25.59	23.24
U.S. Total	12.90	12.57	10.48	10.16	6.74	6.47	9.48	9.43	10.34	10.02

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. OPTIONS NOCENTER

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD	March 2017 YTD	March 2016 YTD
New England	19.07	19.08	15.12	15.33	12.42	12.22	9.01	9.09	16.38	16.41
Connecticut	19.72	20.43	15.85	15.87	13.25	13.32	10.69	11.46	17.35	17.67
Maine	15.96	15.31	12.48	12.32	9.51	9.06	--	--	13.38	12.83
Massachusetts	19.76	19.64	15.28	15.67	13.46	13.21	7.40	7.29	16.74	16.82
New Hampshire	18.77	18.27	14.62	14.64	12.51	12.60	--	--	16.06	15.84
Rhode Island	18.92	18.73	15.57	15.83	14.24	13.79	19.08	18.24	16.83	16.83
Vermont	17.30	16.86	14.40	14.32	10.18	10.18	--	--	14.52	14.29
Middle Atlantic	15.55	15.28	12.07	12.01	6.93	7.05	10.71	10.84	12.35	12.25
New Jersey	15.70	15.52	12.03	11.97	9.87	10.03	8.76	8.80	13.15	13.08
New York	17.27	16.72	13.82	13.53	5.60	5.87	11.99	11.80	14.08	13.70
Pennsylvania	14.04	13.98	9.10	9.50	6.93	7.04	7.16	8.07	10.34	10.49
East North Central	12.90	12.51	10.02	9.65	7.02	6.73	6.65	6.90	10.00	9.67
Illinois	12.32	11.93	8.80	8.51	6.48	6.31	6.29	6.68	9.21	8.95
Indiana	11.64	10.69	10.24	9.45	7.38	6.57	11.38	9.74	9.52	8.64
Michigan	15.33	14.73	11.05	10.39	7.37	6.82	12.21	11.39	11.44	10.80
Ohio	11.98	12.16	9.91	9.80	6.67	6.80	7.64	7.45	9.61	9.73
Wisconsin	14.26	14.00	10.90	10.77	7.63	7.57	13.78	14.17	10.91	10.76
West North Central	10.94	10.61	9.12	8.86	6.89	6.65	8.04	8.49	9.16	8.90
Iowa	11.16	10.90	8.62	8.39	5.42	5.35	--	--	8.01	7.89
Kansas	12.65	12.45	10.09	10.17	7.40	7.43	--	--	10.15	10.16
Minnesota	12.48	12.09	10.10	9.48	7.52	7.02	9.36	10.19	10.18	9.69
Missouri	9.85	9.42	8.29	8.05	6.33	5.92	6.69	6.57	8.71	8.35
Nebraska	9.85	9.68	8.59	8.44	7.41	7.52	--	--	8.67	8.60
North Dakota	9.30	9.18	8.86	8.76	8.54	8.08	--	--	8.88	8.63
South Dakota	10.67	10.53	9.18	9.07	7.66	7.40	--	--	9.51	9.35
South Atlantic	11.73	11.40	9.48	9.37	6.35	6.15	7.92	7.78	9.90	9.75
Delaware	13.33	13.17	10.42	10.40	7.94	8.20	--	--	11.29	11.31
District of Columbia	12.72	13.00	12.02	11.88	8.43	9.20	9.51	9.28	12.05	12.00
Florida	11.74	11.36	9.66	9.44	7.98	7.77	8.51	8.66	10.55	10.29
Georgia	11.36	10.64	10.01	9.47	5.54	5.16	4.89	4.38	9.44	8.94
Maryland	14.25	14.11	11.14	10.96	8.71	8.02	7.94	7.81	12.42	12.28
North Carolina	10.85	10.87	8.54	8.59	5.97	5.83	9.06	7.93	9.05	9.14
South Carolina	12.52	12.07	10.35	9.95	5.89	5.64	--	--	9.56	9.36
Virginia	11.00	10.88	7.73	8.15	6.53	6.77	7.73	7.88	8.93	9.14
West Virginia	11.46	10.76	9.73	9.34	6.76	6.48	--	--	9.23	8.88
East South Central	11.09	10.35	10.53	9.93	5.91	5.45	--	--	9.22	8.70
Alabama	12.59	11.48	11.73	10.89	5.99	5.44	--	--	9.72	9.05
Kentucky	10.43	9.84	9.59	9.24	5.62	5.24	--	--	8.40	8.02
Mississippi	11.07	10.53	10.35	9.89	6.09	5.72	--	--	9.07	8.69
Tennessee	10.51	9.82	10.35	9.72	6.03	5.56	--	--	9.47	8.93
West South Central	10.55	10.34	8.26	7.80	5.27	5.06	7.64	5.63	8.07	7.86
Arkansas	9.57	9.18	8.09	7.92	5.54	5.53	11.67	8.96	7.76	7.62
Louisiana	8.80	8.66	8.64	8.55	5.02	4.95	10.07	8.52	7.23	7.17
Oklahoma	10.08	9.25	7.74	6.83	5.15	4.47	--	--	7.83	7.06
Texas	11.15	11.06	8.28	7.79	5.32	5.12	7.45	5.42	8.34	8.17
Mountain	11.28	11.05	9.13	9.02	6.08	5.83	9.80	9.35	8.97	8.74
Arizona	11.55	11.32	9.73	9.73	5.85	5.36	7.99	8.21	9.65	9.38
Colorado	11.75	11.26	9.38	8.83	7.11	6.69	10.03	9.03	9.59	9.09
Idaho	9.56	9.66	7.59	7.56	5.84	5.86	--	--	8.02	8.02
Montana	10.65	10.50	9.96	9.86	4.90	4.84	--	--	8.92	8.72
Nevada	11.84	11.90	7.85	8.37	4.99	4.97	7.75	7.84	7.99	8.06
New Mexico	12.48	11.38	9.83	9.43	6.02	5.53	--	--	9.38	8.77
Utah	10.71	10.60	8.30	8.24	5.88	5.93	9.98	10.05	8.25	8.23
Wyoming	10.73	10.62	9.45	9.17	7.01	6.87	--	--	8.28	8.12
Pacific Contiguous	14.51	14.13	12.53	12.20	8.24	7.99	8.15	8.59	12.49	12.08
California	18.65	17.71	14.31	13.79	10.91	10.43	8.11	8.56	15.27	14.54
Oregon	10.47	10.31	8.82	8.78	6.12	5.91	9.20	9.19	9.04	8.84
Washington	9.26	9.16	8.44	8.42	4.53	4.47	9.64	9.87	7.93	7.77
Pacific Noncontiguous	24.87	23.49	22.63	20.90	20.94	18.47	--	--	22.83	20.93
Alaska	20.90	19.73	18.97	17.61	17.20	14.39	--	--	19.32	17.66
Hawaii	28.89	27.01	26.45	24.14	22.48	20.11	--	--	25.60	23.35
U.S. Total	12.61	12.20	10.38	10.12	6.65	6.42	9.42	9.44	10.27	9.99

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. OPTIONS NOCENTER

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - March 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
Rolling 12 Months Ending in March					
2016	130,138,553	18,020,893	832,837	79	148,992,362
2017	131,433,192	18,184,212	811,469	83	150,428,956

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: March 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	6,367,787	6,316,091	888,133	908,068	26,139	26,228	6	6	7,282,065	7,250,393
Connecticut	1,491,620	1,484,687	152,786	152,039	4,417	4,436	3	3	1,648,826	1,641,165
Maine	712,578	710,097	99,660	98,901	3,143	3,081	0	0	815,381	812,079
Massachusetts	2,809,190	2,755,264	412,686	436,741	13,289	13,404	2	2	3,235,167	3,205,411
New Hampshire	617,910	611,292	108,598	106,566	3,284	3,258	0	0	729,792	721,116
Rhode Island	423,724	442,773	58,399	59,326	1,792	1,832	1	1	483,916	503,932
Vermont	312,765	311,978	56,004	54,495	214	217	0	0	368,983	366,690
Middle Atlantic	16,040,352	15,947,350	2,300,159	2,275,267	42,378	42,935	20	23	18,382,909	18,265,575
New Jersey	3,535,445	3,509,422	516,716	515,901	11,904	12,009	6	6	4,064,071	4,037,338
New York	7,143,576	7,104,930	1,085,563	1,064,745	7,540	7,568	8	11	8,236,687	8,177,254
Pennsylvania	5,361,331	5,332,998	697,880	694,621	22,934	23,358	6	6	6,082,151	6,050,983
East North Central	20,118,614	19,985,782	2,482,814	2,468,922	52,246	52,828	8	8	22,653,682	22,507,540
Illinois	5,269,303	5,239,652	605,965	605,530	5,488	5,458	3	3	5,880,759	5,850,643
Indiana	2,829,983	2,810,239	349,284	347,074	17,411	17,788	1	1	3,196,679	3,175,102
Michigan	4,361,777	4,324,788	548,267	541,461	NM	NM	1	1	4,915,910	4,872,155
Ohio	4,965,684	4,937,426	625,107	622,808	18,711	18,906	2	2	5,609,504	5,579,142
Wisconsin	2,691,867	2,673,677	354,191	352,049	NM	NM	1	1	3,050,830	3,030,498
West North Central	9,441,449	9,354,005	1,445,490	1,431,226	113,480	113,739	3	2	11,000,422	10,898,972
Iowa	1,382,401	1,367,292	242,531	239,612	NM	NM	0	0	1,631,789	1,613,778
Kansas	1,261,920	1,254,115	233,863	232,299	25,440	25,345	0	0	1,521,223	1,511,759
Minnesota	2,385,895	2,362,133	288,224	284,730	NM	NM	1	1	2,682,255	2,655,068
Missouri	2,783,034	2,761,607	375,615	374,106	8,237	8,374	2	1	3,166,888	3,144,088
Nebraska	852,545	842,416	159,660	157,661	53,841	54,231	0	0	1,066,046	1,054,308
North Dakota	377,257	373,416	73,091	71,264	7,960	7,703	0	0	458,308	452,383
South Dakota	398,397	393,026	72,506	71,554	NM	NM	0	0	473,913	467,588
South Atlantic	27,525,633	27,136,513	3,769,833	3,720,753	79,968	79,078	13	13	31,375,447	30,936,357
Delaware	422,206	416,694	53,504	52,743	1,117	1,124	0	0	476,827	470,561
District of Columbia	265,972	257,485	26,065	25,922	1	1	3	3	292,041	283,411
Florida	9,220,903	9,080,925	1,223,921	1,205,222	20,741	20,323	2	2	10,465,567	10,306,472
Georgia	4,311,839	4,246,665	579,137	571,847	19,374	18,865	1	1	4,910,351	4,837,378
Maryland	2,310,350	2,287,798	251,724	250,641	8,830	8,816	5	5	2,570,909	2,547,260
North Carolina	4,482,122	4,416,127	699,992	684,566	9,942	9,982	1	1	5,192,057	5,110,676
South Carolina	2,251,822	2,213,921	362,341	357,406	4,558	4,412	0	0	2,618,721	2,575,739
Virginia	3,399,453	3,354,694	429,425	430,092	3,780	3,771	1	1	3,832,659	3,788,558
West Virginia	860,966	862,204	143,724	142,314	11,625	11,784	0	0	1,016,315	1,016,302
East South Central	8,379,555	8,287,338	1,386,266	1,371,069	24,606	24,921	0	0	9,790,427	9,683,328
Alabama	2,236,177	2,213,650	369,242	365,548	8,152	8,109	0	0	2,613,571	2,587,307
Kentucky	1,982,869	1,967,030	299,351	296,457	7,555	7,843	0	0	2,289,775	2,271,330
Mississippi	1,306,042	1,292,163	238,668	235,267	7,556	7,573	0	0	1,552,266	1,535,003
Tennessee	2,854,467	2,814,495	479,005	473,797	1,343	1,396	0	0	3,334,815	3,289,688
West South Central	15,755,696	15,533,055	2,201,068	2,180,893	177,759	173,761	6	6	18,134,529	17,887,715
Arkansas	1,382,638	1,368,033	191,424	188,632	29,690	29,869	2	2	1,603,754	1,586,536
Louisiana	2,084,249	2,061,242	293,085	289,518	18,791	18,440	1	1	2,396,126	2,369,201
Oklahoma	1,763,734	1,744,285	283,602	280,261	18,009	18,042	0	0	2,065,345	2,042,588
Texas	10,525,075	10,359,495	1,432,957	1,422,482	111,269	107,410	3	3	12,069,304	11,889,390
Mountain	9,629,663	9,495,719	1,376,875	1,359,630	85,924	85,222	4	4	11,092,466	10,940,575
Arizona	2,755,258	2,716,122	318,749	314,706	6,934	6,610	1	1	3,080,942	3,037,439
Colorado	2,278,866	2,247,558	359,607	354,503	13,948	13,909	1	1	2,652,422	2,615,971
Idaho	722,628	710,192	108,183	106,681	27,980	27,754	0	0	858,791	844,627
Montana	504,430	498,240	108,450	106,794	NM	NM	0	0	619,002	611,207
Nevada	1,157,203	1,138,170	162,373	160,974	NM	NM	1	1	1,322,771	1,302,286
New Mexico	893,017	887,622	138,614	137,977	8,575	8,508	0	0	1,040,206	1,034,107
Utah	1,046,128	1,027,072	122,342	119,668	9,437	9,464	1	1	1,177,908	1,156,205
Wyoming	272,133	270,743	58,557	58,327	9,734	9,663	0	0	340,424	338,733
Pacific Contiguous	18,735,812	18,578,877	2,365,893	2,347,903	207,797	209,493	23	24	21,309,525	21,136,297
California	13,972,781	13,871,009	1,735,336	1,733,186	155,507	155,717	15	16	15,863,639	15,759,928
Oregon	1,733,841	1,714,319	238,120	234,733	23,492	24,451	2	2	1,995,455	1,973,505
Washington	3,029,190	2,993,549	392,437	379,984	28,798	29,325	6	6	3,450,431	3,402,864
Pacific Noncontiguous	717,747	712,599	114,551	113,925	NM	NM	0	0	834,439	828,681
Alaska	285,624	282,820	53,212	52,799	NM	NM	0	0	340,194	336,983
Hawaii	432,123	429,779	61,339	61,126	783	793	0	0	494,245	491,698
U.S. Total	132,712,308	131,347,329	18,331,082	18,177,656	812,438	810,362	83	86	151,855,911	150,335,433

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. OPTIONS NOCENTER

Table 6.1. Electric Generating Summer Capacity Changes (MW), February 2017 to March 2017

		As of End of February 2017	Activity During March 2017 as Reported to EIA		As of End of March 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*	*81,950.0*	*1,083.2*	*5.0*	*83,028.2*	*1,078.2*	*1,746.0*	*9,622.9*	*314.2*	*5,104.0*	*0.0*	*30.0*	*314.2*	*5,074.0*	*83,342.4*	*88,102.2*
..... *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	81,979.3	1,083.2	5.0	83,057.5	1,078.2	1,746.0	9,652.2	314.2	5,104.0	0.0	30.0	314.2	5,074.0	83,371.7	88,131.5
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*20,327.7*	*453.7*	*16.4*	*20,765.0*	*437.3*	*994.7*	*8,181.9*	*623.9*	*4,893.2*	*0.0*	*0.0*	*623.9*	*4,893.2*	*21,388.9*	*25,658.2*
..... *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	22,085.6	453.7	16.4	22,522.9	437.3	994.7	8,181.9	623.9	4,893.2	0.0	0.0	623.9	4,893.2	23,146.8	27,416.1
..... Conventional Hydroelectric	Utility Scale Facilities	79,985.8	32.2	147.9	79,870.1	-115.7	-115.3	33.9	0.5	316.1	0.0	213.0	0.5	103.1	79,870.6	79,973.2
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,943.3*	*161.2*	*39.3*	*9,065.2*	*121.9*	*121.9*	*109.9*	*0.0*	*49.0*	*0.0*	*0.0*	*0.0*	*49.0*	*9,065.2*	*9,114.2*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,128.6*	*18.3*	*53.4*	*2,093.5*	*-35.1*	*-23.0*	*6.3*	*4.0*	*9.7*	*0.0*	*2.3*	*4.0*	*7.4*	*2,097.5*	*2,100.9*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,247.3*	*0.0*	*0.0*	*2,247.3*	*0.0*	*0.2*	*0.2*	*0.0*	*0.0*	*0.0*	*13.6*	*0.0*	*-13.6*	*2,247.3*	*2,233.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*771.0*	*0.0*	*1.8*	*769.2*	*-1.8*	*-1.8*	*-41.5*	*0.0*	*94.6*	*0.0*	*0.0*	*0.0*	*94.6*	*769.2*	*863.8*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,090.2	179.5	94.5	14,175.2	85.0	97.3	74.9	4.0	153.3	0.0	15.9	4.0	137.4	14,179.2	14,312.6
..... Geothermal	Utility Scale Facilities	2,511.5	0.0	60.0	2,451.5	-60.0	-60.0	-90.0	0.0	37.0	0.0	0.0	0.0	37.0	2,451.5	2,488.5
... Renewable Sources Subtotal	***Utility Scale Facilities***	***200,652.4***	***1,748.6***	***323.8***	***202,077.2***	***1,424.8***	***2,662.7***	***17,852.9***	***942.6***	***10,503.6***	***0.0***	***258.9***	***942.6***	***10,244.7***	***203,019.8***	***212,321.9***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*240,791.9*	*206.7*	*1,060.4*	*239,938.2*	*-853.7*	*419.0*	*5,884.8*	*3,190.6*	*13,562.3*	*0.0*	*0.0*	*3,190.6*	*13,562.3*	*243,128.8*	*253,500.5*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,728.2*	*507.8*	*129.8*	*127,106.2*	*378.0*	*359.1*	*3,459.5*	*440.0*	*2,055.5*	*36.0*	*214.2*	*404.0*	*1,841.3*	*127,510.2*	*128,947.5*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,164.7*	*211.8*	*1,376.8*	*75,999.7*	*-1,165.0*	*-426.5*	*-2,313.5*	*0.0*	*0.0*	*106.0*	*1,708.5*	*-106.0*	*-1,708.5*	*75,893.7*	*74,291.2*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,250.0*	*30.7*	*14.3*	*4,266.4*	*16.4*	*227.6*	*621.3*	*20.4*	*201.7*	*0.9*	*0.9*	*19.5*	*200.8*	*4,285.9*	*4,467.2*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*116.4*	*5.2*	*0.0*	*121.6*	*5.2*	*5.3*	*14.5*	*0.0*	*29.2*	*0.0*	*0.0*	*0.0*	*29.2*	*121.6*	*150.8*
..... Natural Gas Subtotal	Utility Scale Facilities	449,161.2	962.2	2,581.3	447,542.1	-1,619.1	584.5	7,666.6	3,651.0	15,848.7	142.9	1,923.6	3,508.1	13,925.1	451,050.2	461,467.2
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*268,463.6*	*14.0*	*738.9*	*267,738.7*	*-724.9*	*-1,507.2*	*-9,747.6*	*0.0*	*0.0*	*1,553.0*	*4,461.8*	*-1,553.0*	*-4,461.8*	*266,185.7*	*263,276.9*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	269,278.6	14.0	738.9	268,553.7	-724.9	-1,507.2	-9,747.6	0.0	0.0	1,553.0	4,461.8	-1,553.0	-4,461.8	267,000.7	264,091.9
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	0.0	1,540.3	0.0	0.0	-204.0	0.0	0.0	0.0	0.0	0.0	0.0	1,540.3	1,540.3
..... Petroleum Liquids	Utility Scale Facilities	34,806.3	19.5	441.9	34,383.9	-422.4	-473.7	-547.0	2.0	17.9	0.7	497.5	1.3	-479.6	34,385.2	33,904.3
..... Other Gases	Utility Scale Facilities	2,497.2	18.0	80.0	2,435.2	-62.0	-62.0	-65.2	0.0	0.0	0.0	0.0	0.0	0.0	2,435.2	2,435.2
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***757,283.6***	***1,013.7***	***3,842.1***	***754,455.2***	***-2,828.4***	***-1,458.4***	***-2,897.2***	***3,653.0***	***15,866.6***	***1,696.6***	***6,882.9***	***1,956.4***	***8,983.7***	***756,411.6***	***763,438.9***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,670.1	0.0	0.0	22,670.1	0.0	0.0	73.0	0.0	114.0	0.0	0.0	0.0	114.0	22,670.1	22,784.1
..... Flywheels	Utility Scale Facilities	44.0	0.0	2.0	42.0	-2.0	-2.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	557.2	33.0	0.1	590.1	32.9	50.4	208.9	26.0	105.1	0.0	0.0	26.0	105.1	616.1	695.2
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,271.3***	***33.0***	***2.1***	***23,302.2***	***30.9***	***48.4***	***279.9***	***26.0***	***219.1***	***0.0***	***0.0***	***26.0***	***219.1***	***23,328.2***	***23,521.3***
... Nuclear	***Utility Scale Facilities***	***99,327.5***	***3.0***	***0.0***	***99,330.5***	***3.0***	***14.6***	***658.5***	***0.0***	***20.0***	***0.0***	***0.0***	***0.0***	***20.0***	***99,330.5***	***99,350.5***
... All Other	***Utility Scale Facilities***	***1,484.8***	***18.9***	***131.0***	***1,372.7***	***-112.1***	***-112.1***	***-88.7***	***0.0***	***54.8***	***0.0***	***0.0***	***0.0***	***54.8***	***1,372.7***	***1,427.5***
TOTAL	**UTILITY SCALE FACILITIES**	**1,082,019.6**	**2,817.2**	**4,299.0**	**1,080,537.8**	**-1,481.8**	**1,155.2**	**15,805.4**	**4,621.6**	**26,664.1**	**1,696.6**	**7,141.8**	**2,925.0**	**19,522.3**	**1,083,462.8**	**1,100,060.1**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*13,807.7*			*14,107.5*	*299.8*	*924.3*	*3,298.0*								
..... Estimated Total Solar Photovoltaic	All Facilities	34,135.4			34,872.5	737.1	1,919.0	11,479.9								
... Estimated Total Solar	***All Facilities***	***35,893.3***			***36,630.4***	***737.1***	***1,919.0***	***11,479.9***								

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

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

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

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-826, Form EIA-861 and from

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

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.'

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	5,507.6	5,031.8	22,712.2	22,754.5	1,797.4	1,797.4	19.0	4.0	4,015.9	4,018.0	48.0	48.0	34,100.1	33,653.7
Connecticut	344.7	333.5	6,308.9	6,307.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,797.6	8,783.8
Maine	2,452.0	2,150.5	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,932.7	4,615.0
Massachusetts	1,084.6	998.4	9,784.1	9,843.0	1,768.0	1,768.0	0.0	2.0	677.2	682.3	0.0	0.0	13,313.9	13,293.7
New Hampshire	933.4	932.5	2,270.2	2,270.9	0.0	0.0	0.0	0.0	1,250.9	1,247.9	0.0	0.0	4,454.5	4,451.3
Rhode Island	101.6	55.8	1,806.8	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,908.4	1,847.1
Vermont	591.3	561.1	99.7	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	693.0	662.8
Middle Atlantic	10,959.8	10,703.9	69,275.7	67,639.2	3,409.1	3,409.1	70.4	60.0	19,237.3	19,224.5	11.2	11.2	102,963.5	101,047.9
New Jersey	855.2	730.5	13,576.2	13,539.5	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	18,970.5	18,809.1
New York	7,206.2	7,118.6	25,956.6	25,930.1	1,406.1	1,406.1	20.0	20.0	5,410.4	5,397.6	0.0	0.0	39,999.3	39,872.4
Pennsylvania	2,898.4	2,854.8	29,742.9	28,169.6	1,583.0	1,583.0	50.4	40.0	9,719.0	9,719.0	0.0	0.0	43,993.7	42,366.4
East North Central	10,827.2	10,208.0	113,773.9	116,171.4	2,037.0	1,964.0	187.4	157.4	18,900.0	18,896.1	110.1	110.1	145,835.6	147,507.0
Illinois	4,174.8	3,977.0	29,581.4	29,896.4	0.0	0.0	112.4	112.4	11,589.6	11,589.6	0.0	0.0	45,458.2	45,575.4
Indiana	2,206.6	2,159.5	23,089.9	24,167.9	0.0	0.0	22.0	2.0	0.0	0.0	89.0	89.0	25,407.5	26,418.4
Michigan	2,486.1	2,255.4	20,962.7	21,915.0	2,037.0	1,964.0	0.0	0.0	3,980.4	3,976.5	0.0	0.0	29,466.2	30,110.9
Ohio	840.3	715.6	25,801.8	25,835.0	0.0	0.0	53.0	43.0	2,134.0	2,134.0	0.0	0.0	28,829.1	28,727.6
Wisconsin	1,119.4	1,100.5	14,338.1	14,357.1	0.0	0.0	0.0	0.0	1,196.0	1,196.0	21.1	21.1	16,674.6	16,674.7
West North Central	25,259.9	21,456.3	60,572.2	60,984.8	657.0	657.0	2.0	2.0	5,377.4	5,855.5	24.5	24.5	91,893.0	88,980.1
Iowa	6,902.5	6,351.1	9,561.2	9,950.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,065.1	16,903.0
Kansas	4,952.0	3,789.9	9,763.1	9,572.2	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	15,890.9	14,537.9
Minnesota	4,453.6	3,917.3	10,180.0	10,160.6	0.0	0.0	1.0	1.0	1,647.0	1,647.0	18.4	18.4	16,300.0	15,744.3
Missouri	1,245.2	1,035.0	18,605.1	18,845.6	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,698.3	21,728.6
Nebraska	1,629.5	1,185.7	6,238.1	6,150.1	0.0	0.0	0.0	0.0	764.0	1,242.1	0.0	0.0	8,631.6	8,577.9
North Dakota	3,640.3	2,741.5	4,537.6	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,183.2	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	16,661.8	14,404.6	162,202.0	157,213.0	7,905.2	7,905.2	77.5	77.5	24,578.6	24,578.6	402.7	509.7	211,827.8	204,688.6
Delaware	44.9	44.9	3,359.0	3,358.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,403.9	3,403.0
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	1,694.4	1,434.2	55,848.3	52,589.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	61,463.4	57,944.5
Georgia	3,926.0	3,241.2	26,952.7	27,190.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,802.9	36,356.3
Maryland	1,057.7	1,023.6	10,282.7	9,630.7	0.0	0.0	11.0	11.0	1,707.8	1,707.8	0.0	0.0	13,059.2	12,373.1
North Carolina	5,225.0	4,171.5	22,010.3	22,021.3	86.0	86.0	0.0	0.0	5,113.6	5,113.6	54.0	161.0	32,488.9	31,553.4
South Carolina	1,807.2	1,790.4	11,630.5	11,633.0	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,709.9	22,695.6
Virginia	1,863.8	1,756.8	17,946.2	16,617.1	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,619.0	25,182.9
West Virginia	1,030.8	930.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,259.6	15,158.8
East South Central	8,371.7	8,140.3	65,762.5	67,273.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,868.1	1.4	1.4	86,742.0	86,899.4
Alabama	4,066.4	3,939.9	20,136.1	21,398.5	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,268.9	30,404.8
Kentucky	1,114.4	1,036.6	19,005.6	19,153.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,120.0	20,190.1
Mississippi	277.8	274.7	14,315.4	14,407.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,995.6	16,084.5
Tennessee	2,913.1	2,889.1	12,305.4	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	3,400.7	0.0	0.0	21,357.5	20,220.0
West South Central	32,281.4	27,649.2	142,657.7	145,933.9	286.0	286.0	41.0	40.0	8,896.2	8,896.2	522.1	512.2	184,684.4	183,317.5
Arkansas	1,591.6	1,590.6	11,256.6	11,284.8	28.0	28.0	0.0	0.0	1,808.5	1,808.5	0.0	0.0	14,684.7	14,711.9
Louisiana	682.1	687.1	21,221.8	23,236.8	0.0	0.0	0.0	0.0	2,127.7	2,127.7	298.1	275.9	24,329.7	26,327.5
Oklahoma	7,583.8	6,237.7	18,212.9	18,635.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,054.7	25,131.1
Texas	22,423.9	19,133.8	91,966.4	92,776.9	0.0	0.0	41.0	40.0	4,960.0	4,960.0	224.0	236.3	119,615.3	117,147.0
Mountain	25,291.5	22,410.0	63,600.7	64,069.6	778.8	778.8	12.6	2.6	3,937.0	3,937.0	119.8	111.4	93,740.4	91,309.4
Arizona	4,973.3	4,557.4	19,407.3	19,382.4	216.3	216.3	10.0	0.0	3,937.0	3,937.0	0.0	0.0	28,543.9	28,093.1
Colorado	4,148.7	3,857.7	11,354.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,074.5	15,792.5
Idaho	3,996.1	3,776.1	1,147.1	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,158.0	4,948.4
Montana	3,411.3	3,414.1	2,740.4	2,722.2	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,195.7	6,180.3
Nevada	3,344.1	2,676.0	7,998.1	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,342.2	10,934.7
New Mexico	2,034.5	1,517.8	6,815.3	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,852.4	8,457.3
Utah	1,589.1	896.5	7,352.0	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	8,981.3	8,390.7
Wyoming	1,794.4	1,714.4	6,786.5	6,786.5	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,592.4	8,512.4
Pacific Contiguous	65,838.6	63,140.3	49,584.2	51,152.1	4,183.3	4,183.3	163.2	25.7	3,398.0	3,398.0	106.3	106.3	123,273.6	122,005.7
California	28,991.9	26,376.9	40,438.7	42,484.6	3,869.3	3,869.3	153.0	17.5	2,240.0	2,240.0	106.3	106.3	75,799.2	75,094.6
Oregon	12,077.6	12,041.1	4,372.8	3,859.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,455.4	15,905.9
Washington	24,769.1	24,722.3	4,772.7	4,807.7	314.0	314.0	5.2	3.2	1,158.0	1,158.0	0.0	0.0	31,019.0	31,005.2
Pacific Noncontiguous	1,077.7	1,079.9	4,314.1	4,160.6	0.0	0.0	59.0	56.0	0.0	0.0	26.6	26.6	5,477.4	5,323.1
Alaska	540.2	508.7	2,256.9	2,103.4	0.0	0.0	32.0	29.0	0.0	0.0	0.0	0.0	2,829.1	2,641.1
Hawaii	537.5	571.2	2,057.2	2,057.2	0.0	0.0	27.0	27.0	0.0	0.0	26.6	26.6	2,648.3	2,682.0
U.S. Total	202,077.2	184,224.3	754,455.2	757,352.4	22,670.1	22,597.1	632.1	425.2	99,330.5	98,672.0	1,372.7	1,461.4	1,080,537.8	1,064,732.4

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

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.
Concentrated Solar Power Energy Storage is included in 'Renewable sources'; it is not included in 'Other Energy Storage'

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, March 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	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	1,349.5	1,009.8	539.0	421.7	0.0	0.0	1,959.3	1,951.6	1,659.8	1,648.7	0.0	0.0	5,507.6	5,031.8	1,537.0	1,133.5	2,076.0	1,555.2	2,076.0	1,555.2
Connecticut	1.1	1.1	22.2	11.0	0.0	0.0	122.2	122.2	199.2	199.2	0.0	0.0	344.7	333.5	288.3	201.9	310.5	212.9	310.5	212.9
Maine	898.8	612.8	0.0	0.0	0.0	0.0	734.2	728.9	819.0	808.8	0.0	0.0	2,452.0	2,150.5	25.1	18.4	25.1	18.4	25.1	18.4
Massachusetts	94.5	86.6	440.9	362.6	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,084.6	998.4	1,049.4	815.6	1,490.3	1,178.2	1,490.3	1,178.2
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	245.5	244.6	0.0	0.0	933.4	932.5	60.5	31.8	60.5	31.8	60.5	31.8
Rhode Island	51.8	6.0	10.2	10.2	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	101.6	55.8	32.4	12.3	42.6	22.5	42.6	22.5
Vermont	120.2	120.2	65.7	37.9	0.0	0.0	329.5	327.1	75.9	75.9	0.0	0.0	591.3	561.1	81.2	53.5	146.9	91.4	146.9	91.4
Middle Atlantic	3,205.7	3,088.1	762.9	610.7	0.0	0.0	5,623.5	5,623.5	1,367.7	1,381.6	0.0	0.0	10,959.8	10,703.9	2,316.8	1,892.1	3,079.7	2,502.8	3,079.7	2,502.8
New Jersey	7.6	7.6	606.2	481.5	0.0	0.0	12.3	12.3	229.1	229.1	0.0	0.0	855.2	730.5	1,275.8	1,112.8	1,882.0	1,594.3	1,882.0	1,594.3
New York	1,824.7	1,747.0	110.3	84.8	0.0	0.0	4,711.6	4,711.6	559.6	575.2	0.0	0.0	7,206.2	7,118.6	794.2	585.4	904.5	670.2	904.5	670.2
Pennsylvania	1,373.4	1,333.5	46.4	44.4	0.0	0.0	899.6	899.6	579.0	577.3	0.0	0.0	2,898.4	2,854.8	246.9	193.9	293.3	238.3	293.3	238.3
East North Central	8,327.3	7,814.1	292.6	212.3	0.0	0.0	914.2	910.3	1,293.1	1,271.3	0.0	0.0	10,827.2	10,208.0	212.0	155.1	504.6	367.4	504.6	367.4
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	124.1	110.3	0.0	0.0	4,174.8	3,977.0	29.7	23.0	62.5	55.8	62.5	55.8
Indiana	1,889.7	1,889.7	172.6	131.9	0.0	0.0	60.4	60.4	83.9	77.5	0.0	0.0	2,206.6	2,159.5	15.4	8.8	188.0	140.7	188.0	140.7
Michigan	1,588.5	1,360.1	12.5	3.9	0.0	0.0	324.6	330.9	560.5	560.5	0.0	0.0	2,486.1	2,255.4	NM	29.3	NM	33.2	NM	33.2
Ohio	533.9	433.1	66.6	42.7	0.0	0.0	101.9	101.9	137.9	137.9	0.0	0.0	840.3	715.6	87.8	72.3	154.4	115.0	154.4	115.0
Wisconsin	331.4	331.4	8.1	1.0	0.0	0.0	393.2	383.0	386.7	385.1	0.0	0.0	1,119.4	1,100.5	33.2	21.6	41.3	22.6	41.3	22.6
West North Central	21,142.5	17,606.7	290.2	20.6	0.0	0.0	3,278.1	3,278.1	549.1	550.9	0.0	0.0	25,259.9	21,456.3	212.8	162.5	503.0	183.1	503.0	183.1
Iowa	6,733.6	6,183.0	2.6	0.0	0.0	0.0	144.9	144.9	21.4	23.2	0.0	0.0	6,902.5	6,351.1	48.2	33.1	50.8	33.1	50.8	33.1
Kansas	4,935.0	3,772.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	4,952.0	3,789.9	7.7	5.5	8.7	6.5	8.7	6.5
Minnesota	3,531.7	3,240.7	250.6	5.3	0.0	0.0	194.6	194.6	476.7	476.7	0.0	0.0	4,453.6	3,917.3	32.6	22.5	283.2	27.8	283.2	27.8
Missouri	654.3	458.5	28.7	14.3	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,245.2	1,035.0	120.9	99.4	149.6	113.7	149.6	113.7
Nebraska	1,329.6	892.1	6.3	0.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,185.7	2.4	1.4	8.7	1.4	8.7	1.4
North Dakota	3,120.5	2,221.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,640.3	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	0.5	1.7	0.5	1.7	0.5
South Atlantic	1,086.3	775.3	4,064.7	2,208.1	0.0	0.0	7,251.3	7,249.3	4,259.5	4,171.9	0.0	0.0	16,661.8	14,404.6	1,249.6	881.3	5,314.3	3,089.4	5,314.3	3,089.4
Delaware	2.0	2.0	30.7	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	44.9	44.9	89.5	71.8	120.2	102.5	120.2	102.5
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	44.8	31.3	44.8	31.3	44.8	31.3
Florida	0.0	0.0	344.5	91.1	0.0	0.0	54.5	54.5	1,295.4	1,288.6	0.0	0.0	1,694.4	1,434.2	150.7	130.4	495.2	221.5	495.2	221.5
Georgia	0.0	0.0	981.1	300.3	0.0	0.0	2,047.1	2,045.1	897.8	895.8	0.0	0.0	3,926.0	3,241.2	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	135.7	101.6	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,057.7	1,023.6	604.4	421.1	740.1	522.7	740.1	522.7
North Carolina	208.0	0.0	2,448.0	1,679.9	0.0	0.0	2,004.1	2,004.1	564.9	487.5	0.0	0.0	5,225.0	4,171.5	112.9	90.6	2,560.9	1,770.5	2,560.9	1,770.5
South Carolina	0.0	0.0	19.3	2.5	0.0	0.0	1,345.1	1,345.1	442.8	442.8	0.0	0.0	1,807.2	1,790.4	74.3	9.5	93.6	12.0	93.6	12.0
Virginia	0.0	0.0	105.4	2.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,863.8	1,756.8	42.3	24.7	147.7	26.7	147.7	26.7
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	344.5	344.5	0.0	2.2	0.0	0.0	1,030.8	930.0	4.8	3.7	4.8	3.7	4.8	3.7
East South Central	29.1	29.1	157.3	45.2	0.0	0.0	6,921.8	6,855.5	1,263.5	1,210.5	0.0	0.0	8,371.7	8,140.3	76.8	55.0	234.1	100.2	234.1	100.2
Alabama	0.0	0.0	75.0	0.0	0.0	0.0	3,271.0	3,271.0	720.4	668.9	0.0	0.0	4,066.4	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,032.2	965.9	72.2	70.7	0.0	0.0	1,114.4	1,036.6	12.7	10.3	22.7	10.3	22.7	10.3
Mississippi	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	277.8	274.7	21.1	2.9	24.2	2.9	24.2	2.9
Tennessee	29.1	29.1	69.2	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,913.1	2,889.1	39.8	39.5	109.0	84.7	109.0	84.7
West South Central	27,236.9	22,957.3	699.4	332.4	0.0	0.0	2,986.5	2,986.5	1,358.6	1,373.0	0.0	0.0	32,281.4	27,649.2	509.7	294.8	1,209.1	627.2	1,209.1	627.2
Arkansas	0.0	0.0	13.0	12.0	0.0	0.0	1,266.2	1,266.2	312.4	312.4	0.0	0.0	1,591.6	1,590.6	5.5	4.1	18.5	16.1	18.5	16.1
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	124.7	109.8	124.7	109.8	124.7	109.8
Oklahoma	6,644.1	5,299.4	2.5	2.5	0.0	0.0	859.6	859.6	77.6	76.2	0.0	0.0	7,583.8	6,237.7	13.6	2.9	16.1	5.4	16.1	5.4
Texas	20,592.8	17,657.9	683.9	317.9	0.0	0.0	668.7	668.7	478.5	489.3	0.0	0.0	22,423.9	19,133.8	365.9	178.0	1,049.8	495.9	1,049.8	495.9
Mountain	8,396.7	7,901.4	5,155.6	2,743.2	473.9	473.9	10,533.9	10,560.5	186.6	186.2	544.8	544.8	25,291.5	22,410.0	1,636.2	1,407.4	6,791.8	4,150.6	7,265.7	4,624.5
Arizona	267.3	267.3	1,659.0	1,243.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,973.3	4,557.4	903.3	802.1	2,562.3	2,045.2	2,857.7	2,340.6
Colorado	3,026.1	2,961.8	417.5	192.0	0.0	0.0	677.7	676.5	27.4	27.4	0.0	0.0	4,148.7	3,857.7	298.5	266.0	716.0	458.0	716.0	458.0
Idaho	962.7	962.7	220.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,996.1	3,776.1	8.0	5.2	228.0	5.2	228.0	5.2
Montana	678.5	653.5	0.0	0.0	0.0	0.0	2,729.8	2,757.6	3.0	3.0	0.0	0.0	3,411.3	3,414.1	8.7	6.4	8.7	6.4	8.7	6.4
Nevada	150.0	150.0	1,494.2	826.3	178.5	178.5	1,051.4	1,051.4	9.8	9.6	460.2	460.2	3,344.1	2,676.0	174.0	185.5	1,668.2	1,011.8	1,846.7	1,190.3
New Mexico	1,436.6	1,112.3	507.8	315.4	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	2,034.5	1,517.8	99.3	79.1	607.1	394.5	607.1	394.5
Utah	388.2	386.5	857.1	166.4	0.0	0.0	256.4	256.4	14.4	14.2	73.0	73.0	1,589.1	896.5	142.0	61.1	999.1	227.5	999.1	227.5
Wyoming	1,487.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,714.4	2.4	1.9	2.4	1.9	2.4	1.9
Pacific Contiguous	12,017.3	11,957.3	8,747.6	5,944.7	1,284.0	1,284.0	39,903.0	39,954.8	2,023.0	2,045.8	1,863.7	1,953.7	65,838.6	63,140.3	5,823.6	4,431.9	14,571.2	10,376.6	15,855.2	11,660.6
California	5,726.8	5,726.8	8,647.2	5,923.0	1,284.0	1,284.0	10,187.3	10,186.7	1,302.4	1,322.2	1,844.2	1,934.2	28,991.9	26,376.9	5,620.5	4,295.4	14,267.7	10,218.4	15,551.7	11,502.4
Oregon	3,217.4	3,157.4	99.9	21.2	0.0	0.0	8,423.2	8,525.4	317.6	317.6	19.5	19.5	12,077.6	12,041.1	123.4	74.2	223.3	95.4	223.3	95.4
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,292.5	21,242.7	403.0	406.0	0.0	0.0	24,769.1	24,722.3	79.7	62.3	80.2	62.8	80.2	62.8
Pacific Noncontiguous	266.2	266.2	55.7	44.2	0.0	0.0	498.5	466.1	214.3	260.4	43.0	43.0	1,077.7	1,079.9	533.0	396.0	588.7	440.2	588.7	440.2
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	472.6	441.1	7.0	7.0	0.0	0.0	540.2	508.7	1.6	0.0	1.6	0.0	1.6	0.0
Hawaii	205.6	205.6	55.7	44.2	0.0	0.0	25.9	25.0	207.3	253.4	43.0	43.0	537.5	571.2	531.3	396.0	587.0	440.2	587.0	440.2
U.S. Total	83,057.5	73,405.3	20,765.0	12,583.1	1,757.9	1,757.9	79,870.1	79,836.2	14,175.2	14,100.3	2,451.5	2,541.5	202,077.2	184,224.3	14,107.5	10,809.5	34,872.5	23,392.6	36,630.4	25,150.5

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, March 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	
	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016	March 2017	March 2016
New England	11,890.8	11,893.0	1,117.3	1,115.5	651.9	641.5	1,955.3	1,988.3	0.0	0.0	7,096.9	7,116.2	0.0	0.0	22,712.2	22,754.5
Connecticut	2,540.8	2,547.5	479.3	479.3	427.0	416.6	383.4	383.4	0.0	0.0	2,478.4	2,480.3	0.0	0.0	6,308.9	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	5,087.6	5,098.6	337.1	335.3	198.0	198.0	1,038.0	1,071.0	0.0	0.0	3,123.4	3,140.1	0.0	0.0	9,784.1	9,843.0
New Hampshire	1,235.2	1,235.2	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	497.3	498.0	0.0	0.0	2,270.2	2,270.9
Rhode Island	1,777.2	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,806.8	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	0.0	0.0	99.7	99.7
Middle Atlantic	26,295.4	24,621.1	7,558.1	7,599.7	15,333.2	13,211.8	14,510.5	16,613.0	78.6	78.6	5,376.1	5,391.2	123.8	123.8	69,275.7	67,639.2
New Jersey	8,098.9	8,047.5	2,810.4	2,817.1	1,113.2	1,113.2	1,245.0	1,245.0	11.6	11.6	273.7	281.7	23.4	23.4	13,576.2	13,539.5
New York	8,128.4	8,069.1	3,070.3	3,105.2	9,624.3	9,522.0	1,642.1	1,749.6	0.0	0.0	3,491.5	3,484.2	0.0	0.0	25,956.6	25,930.1
Pennsylvania	10,068.1	8,504.5	1,677.4	1,677.4	4,595.7	2,576.6	11,623.4	13,618.4	67.0	67.0	1,610.9	1,625.3	100.4	100.4	29,742.9	28,169.6
East North Central	17,048.1	17,001.6	26,219.2	25,595.3	3,921.1	3,486.6	62,413.2	65,695.8	317.6	521.6	2,714.8	2,727.4	1,139.9	1,143.1	113,773.9	116,171.4
Illinois	3,549.8	3,543.0	10,306.1	10,164.4	281.4	281.4	14,644.6	15,109.6	0.0	0.0	685.0	680.3	114.5	117.7	29,581.4	29,896.4
Indiana	2,480.2	2,480.2	3,206.2	3,127.6	706.1	288.1	15,776.8	17,136.4	70.0	274.0	262.3	273.3	588.3	588.3	23,089.9	24,167.9
Michigan	4,296.5	4,296.5	3,921.5	3,513.5	2,476.5	2,465.8	9,440.5	10,811.5	47.2	47.2	530.5	530.5	250.0	250.0	20,962.7	21,915.0
Ohio	4,076.0	4,041.0	5,427.7	5,427.7	139.1	131.4	15,189.9	15,259.9	142.0	142.0	640.0	645.9	187.1	187.1	25,801.8	25,835.0
Wisconsin	2,645.6	2,640.9	3,357.7	3,362.1	318.0	319.9	7,361.4	7,378.4	58.4	58.4	597.0	597.4	0.0	0.0	14,338.1	14,357.1
West North Central	6,027.7	5,917.9	11,468.9	11,380.8	4,119.8	3,707.0	34,886.6	35,842.3	32.0	32.0	4,028.8	4,096.4	8.4	8.4	60,572.2	60,984.8
Iowa	1,125.8	1,125.8	1,195.5	1,105.6	576.4	467.4	5,673.6	6,205.1	32.0	32.0	957.9	1,014.6	0.0	0.0	9,561.2	9,950.5
Kansas	266.0	149.0	2,169.0	2,171.8	2,105.6	2,026.9	4,683.2	4,687.2	0.0	0.0	539.3	537.3	0.0	0.0	9,763.1	9,572.2
Minnesota	2,166.0	2,173.2	2,539.8	2,534.1	376.6	353.8	4,300.1	4,300.1	0.0	0.0	797.5	799.4	0.0	0.0	10,180.0	10,160.6
Missouri	1,837.3	1,837.3	3,390.5	3,395.2	350.8	349.9	11,886.9	12,118.5	0.0	0.0	1,139.6	1,144.7	0.0	0.0	18,605.1	18,845.6
Nebraska	342.6	342.6	1,151.5	1,151.5	590.1	500.3	3,840.5	3,842.0	0.0	0.0	313.4	313.7	0.0	0.0	6,238.1	6,150.1
North Dakota	0.0	0.0	328.0	328.0	111.6	0.0	4,028.3	4,214.4	0.0	0.0	61.3	64.7	8.4	8.4	4,537.6	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	52,479.1	48,550.2	33,104.7	31,109.1	6,977.7	7,071.9	58,030.2	58,424.6	83.8	83.8	11,391.5	11,838.4	135.0	135.0	162,202.0	157,213.0
Delaware	1,512.0	1,512.0	311.0	311.0	876.9	876.0	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,359.0	3,358.1
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	28,009.6	26,245.6	9,116.5	7,480.4	2,893.3	3,034.7	9,984.0	9,984.0	0.0	0.0	5,844.9	5,844.9	0.0	0.0	55,848.3	52,589.6
Georgia	7,949.0	7,953.2	7,840.0	7,857.0	789.4	789.4	9,353.5	9,508.5	83.8	83.8	937.0	999.0	0.0	0.0	26,952.7	27,190.9
Maryland	976.0	250.0	1,960.0	1,581.0	1,415.8	1,489.8	4,712.0	4,712.0	0.0	0.0	1,218.9	1,597.9	0.0	0.0	10,282.7	9,630.7
North Carolina	4,766.0	4,766.0	6,049.7	6,049.7	0.0	0.0	10,802.8	10,802.8	0.0	0.0	391.8	402.8	0.0	0.0	22,010.3	22,021.3
South Carolina	2,409.0	2,409.0	2,853.1	2,855.6	296.0	296.0	5,547.0	5,547.0	0.0	0.0	525.4	525.4	0.0	0.0	11,630.5	11,633.0
Virginia	6,857.5	5,414.4	3,894.1	3,894.1	583.3	586.0	4,262.9	4,379.3	0.0	0.0	2,348.4	2,343.3	0.0	0.0	17,946.2	16,617.1
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	0.0	12,958.0	13,081.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	19,040.8	19,040.8	13,006.4	13,003.3	4,055.0	3,887.0	29,433.5	31,025.4	0.0	0.0	207.0	217.0	19.8	99.8	65,762.5	67,273.3
Alabama	9,397.8	9,397.8	2,532.2	2,530.6	636.3	636.3	7,507.4	8,691.4	0.0	0.0	42.6	42.6	19.8	99.8	20,136.1	21,398.5
Kentucky	663.3	663.3	4,976.6	4,976.6	260.0	0.0	13,028.8	13,436.7	0.0	0.0	76.9	76.9	0.0	0.0	19,005.6	19,153.5
Mississippi	7,576.7	7,576.7	1,718.9	1,718.9	3,155.5	3,247.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,315.4	14,407.4
Tennessee	1,403.0	1,403.0	3,778.7	3,777.2	3.2	3.2	7,077.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,305.4	12,313.9
West South Central	58,026.4	58,972.1	13,358.0	12,815.1	33,036.9	34,925.8	36,436.0	37,420.5	959.3	959.3	181.3	181.3	659.8	659.8	142,657.7	145,933.9
Arkansas	4,602.9	4,602.9	702.8	731.0	816.3	816.3	5,122.4	5,122.4	0.0	0.0	12.2	12.2	0.0	0.0	11,256.6	11,284.8
Louisiana	7,521.4	7,557.4	2,359.1	2,358.1	7,137.8	9,117.8	2,855.1	2,855.1	895.5	895.5	45.5	45.5	407.4	407.4	21,221.8	23,236.8
Oklahoma	6,720.2	6,720.2	1,286.9	1,292.2	5,264.9	5,222.1	4,866.5	5,326.5	0.0	0.0	74.4	74.4	0.0	0.0	18,212.9	18,635.4
Texas	39,181.9	40,091.6	9,009.2	8,433.8	19,817.9	19,769.6	23,592.0	24,116.5	63.8	63.8	49.2	49.2	252.4	252.4	91,966.4	92,776.9
Mountain	22,498.2	22,487.3	8,842.0	8,926.6	3,186.5	3,178.7	28,539.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	63,600.7	64,069.6
Arizona	9,891.6	9,866.7	2,367.6	2,367.6	1,147.6	1,147.6	5,910.0	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	5,043.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,354.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,147.1	1,157.5
Montana	0.0	0.0	321.6	321.6	72.2	54.0	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,722.2
Nevada	5,415.0	5,418.6	1,385.6	1,385.6	451.1	451.1	740.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	7,998.1	8,258.7
New Mexico	1,469.0	1,469.0	959.0	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	6,815.3	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	320.0	330.4	4,654.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,352.0	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,410.1	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,786.5	6,786.5
Pacific Contiguous	26,084.7	25,151.4	11,777.3	11,447.0	9,040.6	11,890.1	2,015.0	2,015.0	17.0	17.0	422.3	422.3	227.3	209.3	49,584.2	51,152.1
California	19,984.6	19,571.3	10,924.1	10,551.8	8,788.6	11,638.1	90.0	90.0	17.0	17.0	407.1	407.1	227.3	209.3	40,438.7	42,484.6
Oregon	3,429.6	2,916.6	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,372.8	3,859.8
Washington	2,670.5	2,663.5	719.4	761.4	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,772.7	4,807.7
Pacific Noncontiguous	547.0	418.0	654.3	654.3	175.0	175.0	333.8	333.8	0.0	0.0	2,594.4	2,569.9	9.6	9.6	4,314.1	4,160.6
Alaska	547.0	418.0	654.3	654.3	175.0	175.0	153.8	153.8	0.0	0.0	726.8	702.3	0.0	0.0	2,256.9	2,103.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,867.6	1,867.6	9.6	9.6	2,057.2	2,057.2
U.S. Total	239,938.2	234,053.4	127,106.2	123,646.7	80,497.7	82,175.4	268,553.7	278,301.3	1,540.3	1,744.3	34,383.9	34,930.9	2,435.2	2,500.4	754,455.2	757,352.4

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	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	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC29	1.0	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

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	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
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	3	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

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

NOTES:

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	4	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.4
2017	4	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.6
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	4	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	4	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2017	4	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	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	4	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	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	4	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	4	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	4	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	4	796	Arizona Electric Pwr Coop Inc	Electric Utility	SunAnza	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	4	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	163.0
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar CSG 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	4	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	4	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.7
2017	4	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	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	4	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	338.0
2017	4	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
2017	4	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
2017	4	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
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	4	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.8
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	219.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	219.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	224.1	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	260.5
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	BA1	10.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	10.0
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	4	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	4	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	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	4	60307	NRG Solar Blythe II LLC	IPP	Solar Blythe 2	CA	60558	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	4	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	4	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	4	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	4	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	4	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	4	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	4	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	151.2
2017	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.4
2017	4	16609	San Diego Gas & Electric Co	Electric Utility	Ramona Solar Energy	CA	60995	1	3.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.3
2017	4	60636	SolaireHolman 1, LLC	IPP	SolaireHolman Solar Project	TX	60989	PV1	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2017	4	57313	SolarCity Corporation	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	4	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.8
2017	4	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2017	4	57313	SolarCity Corporation	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	4	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	118.5
2017	4	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	4	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	4	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2017	4	58375	Sterling Municipal Light Department	Electric Utility	Chocksett Rd Energy Storage Project	MA	60959	BA1	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	56.0
2017	4	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG1	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG2	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0

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	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG3	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	STG1	467.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	467.0
2017	4	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2017	4	60723	VRF Battery Plant	Electric Utility	Vanadium Redox Flow Battery Plant	CA	61107	VRF	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	4	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	5	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2017	5	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	5	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	5	60409	Blue Summit Storage, LLC	IPP	Blue Summit Storage, LLC	TX	60690	WBSS	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2017	5	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	5	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	5	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	5	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	43.2
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2017	5	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2017	5	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	5	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0	Other Waste Biomass	OBG	GT	(TS) Construction complete, but not yet in commercial operation	11.0
2017	5	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0	Other Waste Biomass	OBG	GT	(TS) Construction complete, but not yet in commercial operation	11.0
2017	5	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0	Other Waste Biomass	OBG	GT	(TS) Construction complete, but not yet in commercial operation	11.0
2017	5	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	28.4
2017	5	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.6
2017	5	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	511.2
2017	5	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	5	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	5	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.9
2017	5	60738	Gulf Coast Solar Center I (CA)	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	5	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	5	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	5	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	(V) Under construction, more than 50 percent complete	13.8
2017	5	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	5	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	5	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	5	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4
2017	5	60455	PVN Milliken, LLC	IPP	Milliken Landfill Solar	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	5	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	5	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	5	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	5	57313	SolarCity Corporation	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.8
2017	5	57313	SolarCity Corporation	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	5	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	5	57313	SolarCity Corporation	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.6
2017	5	57313	SolarCity Corporation	IPP	Oneida County- DPW	NY	60114	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	5	57313	SolarCity Corporation	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	5	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	5	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	5	57313	SolarCity Corporation	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	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	5	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.8
2017	5	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	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	5	19724	Vanderbilt University	Commercial	Vanderbilt University Power Plant	TN	52048	GT1B	5.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	6.3
2017	5	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	5	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2017	5	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	6	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	6	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	6	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	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	50.0
2017	6	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	42.0	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	50.0
2017	6	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	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	6	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
2017	6	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2017	6	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	3.2

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)
2017	6	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	178.2
2017	6	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	6	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
2017	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
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
2017	6	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
2017	6	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Albany Solar	MN	60519	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Annandale Solar	MN	60520	PV1	6.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Atwater	MN	60521	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Dodge Center Solar	MN	60523	PV1	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Eastwood Solar	MN	60524	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Hastings Solar	MN	60525	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lake Emily Solar	MN	60526	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lake Pulaski Solar	MN	60527	PV1	7.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Lawrence Creek Solar	MN	60528	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Montrose Solar	MN	60529	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	Paynesville Solar	MN	60530	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Pine Island Solar	MN	60531	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Waseca Solar	MN	60532	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	West Faribault Solar	MN	60533	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	6	59380	Enel Green Power NA, Inc.	IPP	West Waconia Solar	MN	60534	PV1	8.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.5
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	508.5
2017	6	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	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
2017	6	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	6	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	6	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	6	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	6	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	6	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	PV	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2017	6	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	6	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	6	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	6	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	6	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	6	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	6	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2017	6	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	6	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	6	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	6	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	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	VEC Magee Hill Solar	VT	60954	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2017	6	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	6	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	6	57313	SolarCity Corporation	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	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	11.0
2017	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	15.0
2017	6	57313	SolarCity Corporation	IPP	Maricopa County Community Colleges- Estr	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2017	6	57313	SolarCity Corporation	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2017	6	57313	SolarCity Corporation	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	6	57313	SolarCity Corporation	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2017	6	57313	SolarCity Corporation	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	6	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	7	60634	AEM Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	29.9
2017	7	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	221	Alaska Village Elec Coop, Inc	Electric Utility	Noorvik	AK	6330	2B	0.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.5
2017	7	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	7	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	7	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0

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	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60739	Gulf Coast Solar Center II (CA)	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	7	58822	MC Power Companies Inc	IPP	Lebanon Solar Farm (MO)	MO	61135	LSF1	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	7	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.9
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	EDG13	1.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	1.5
2017	7	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	404.0
2017	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2017	7	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	7	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	7	57313	SolarCity Corporation	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2017	7	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	8	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.4
2017	8	60730	Bakersfield Industrial PV 1, LLC	IPP	Bakersfield Industrial PV 1	CA	61118	BIND1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	8	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	8	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	8	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Conejos 1 Community Solar Array	CO	60723	CONEJ	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.7
2017	8	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	60728	Delano Land 1, LLC	IPP	Delano Land 1	CA	61116	DELA1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	8	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2017	8	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	6909	Gainesville Regional Utilities	Electric Utility	South Energy Center	FL	56518	REG1	7.4			IC	(OA) Out of service but expected to return to service in next calendar year	7.4
2017	8	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	8	60740	Gulf Coast Solar Center III (CA)	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	8	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	8	60727	Manteca Land PV, LLC	IPP	Manteca Land PV	CA	61115	MANT1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	8	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	8	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	8	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	8	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	493.0
2017	8	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
2017	8	59999	Rocksprings Val Verde Wind, LLC	IPP	Rocksprings	TX	60217	RKSP	149.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.3
2017	8	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	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	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	IA	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2017	8	57313	SolarCity Corporation	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	8	57313	SolarCity Corporation	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	8	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	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
2017	8	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2017	8	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	8	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	8	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2017	8	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	8	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	8	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	8	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.8
2017	9	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
2017	9	221	Alaska Village Elec Coop, Inc	Electric Utility	Kasigluk	AK	57066	1	0.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.8
2017	9	60541	Ameresco Glendale Road Solar PV LLC	IPP	Northampton Landfill Solar PV	MA	60908	62380	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2017	9	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	9	796	Arizona Electric Pwr Coop Inc	Electric Utility	Apache Solar 1	AZ	60964	AEPS1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	9	15399	Avangrid Renewables LLC	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	143.0
2017	9	60729	Bakersfield PV 1, LLC	IPP	Bakersfield PV 1	CA	61117	BAKE1	5.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.3
2017	9	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.3
2017	9	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2017	9	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2017	9	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	253.0
2017	9	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	79.0
2017	9	9417	Interstate Power and Light Co	Electric Utility	West Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2017	9	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	9	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	9	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	9	60735	Pristine Sun Fund 8, LLC	IPP	SCWA R5 Pond Solar	CA	61123	SKYR5	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	45.0
2017	9	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	36.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	57313	SolarCity Corporation	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	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
2017	9	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	9	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	9	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
2017	10	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.5
2017	10	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
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	(L) Regulatory approvals pending. Not under construction	8.8
2017	10	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	155.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	155.4
2017	10	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	10	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	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	1.1
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.8
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.1
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.0
2017	10	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	10	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
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

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	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	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	10	57054	Suzlon Project VIII LLC	IPP	Suzlon Project VIII LLC	TX	57741	S128	2.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.6
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	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(V) Under construction, more than 50 percent complete	4.0
2017	11	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
2017	11	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
2017	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.5
2017	11	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	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
2017	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	71.4
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	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	11	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	11	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
2017	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
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	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
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	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2017	12	60376	Auten Road Farm, LLC	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	15399	Avangrid Renewables LLC	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	15399	Avangrid Renewables LLC	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.0
2017	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
2017	12	15399	Avangrid Renewables LLC	IPP	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	75.0
2017	12	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
2017	12	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
2017	12	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
2017	12	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
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	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	12	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2017	12	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	22.8
2017	12	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	236.0
2017	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
2017	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
2017	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	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
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.8
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	(U) Under construction, less than or equal to 50 percent complete	228.0
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	(U) Under construction, less than or equal to 50 percent complete	278.0
2017	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	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
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	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
2017	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
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	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
2017	12	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
2017	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	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
2017	12	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5

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	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	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
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
2017	12	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	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
2017	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
2017	12	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
2017	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
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	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
2017	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	22.0
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	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2017	12	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	168.0
2017	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
2017	12	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
2017	12	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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 Kramer	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.3
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 Marmas	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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 CSG of Waseca	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
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	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	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
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	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
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	(T) Regulatory approvals received. Not under construction	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	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
2017	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
2017	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
2017	12	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
2017	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2017	12	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
2017	12	57313	SolarCity Corporation	IPP	CMEEC - Hollyhock Solar	CT	60606	PV1	6.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.0
2017	12	57313	SolarCity Corporation	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
2017	12	57313	SolarCity Corporation	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2017	12	57313	SolarCity Corporation	IPP	Pima Community College	AZ	61104	PV1	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
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	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
2017	12	60595	Spartan PV 1, LLC	IPP	Spartan PV 1	MI	60945	PV1	10.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.5
2017	12	60381	Sunflower Solar LLC	IPP	Sunflower Solar	NC	60638	NC160	20.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	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
2017	12	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
2017	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
2017	12	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2017	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
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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
2017	12	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
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	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	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	1	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	44.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corp- Ops LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	1	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	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	460.0
2018	1	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	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	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	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	57313	SolarCity Corporation	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	3	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
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	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	3	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	3	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	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	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	3	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	3	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	3	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	89.7	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	89.7
2018	3	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	58.2
2018	3	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	3	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
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	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. Not under construction	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	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	3	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	3	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	3	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	3	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	238.0
2018	3	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	3	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	3	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	3	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	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	3	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	3	60509	Thigpen Farms Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	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	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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	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
2018	4	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2018	4	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	4	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	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	280.5
2018	5	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	5	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	529.0
2018	5	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
2018	5	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
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	235.0
2018	5	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	5	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	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	212.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	336.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	337.0
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	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	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	6	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
2018	6	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	6	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	6	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	6	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	6	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	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	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
2018	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
2018	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
2018	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
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN4	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
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	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
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	287.0
2018	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
2018	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
2018	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
2018	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
2018	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	260.0
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	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	6	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	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3

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	7	56615	First Solar Project Development	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2018	7	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
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	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	59056	Tri Global Energy, 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	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	7	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2018	7	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
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	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	8	57313	SolarCity Corporation	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	9	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2018	9	60499	Eastway Solar, LLC	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	9	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	60498	Osceola Solar, LLC	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.2
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	233.7
2018	10	13781	Northern States Power Co - Minnesota	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	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	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	60420	BentonSun, 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	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	59056	Tri Global Energy, 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	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	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind Two LLC	IL	58926	SAN2	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	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	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	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
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	1,836.0	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	1,980.0	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	1,980.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(OT) Other	30.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	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	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0

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	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	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	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
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	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	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN2	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
2018	12	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN3	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
2018	12	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	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
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	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	58763	LotusWorks-Summit Ridge I, 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
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	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	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	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2018	12	56069	SunCoke Energy, Inc.	Industrial	SunCoke Energy South Shore Facility	KY	60373	SSST6	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
2018	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Steam Turbine	NG	ST	(T) Regulatory approvals received. Not under construction	394.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
2018	12	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
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	1	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	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
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	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	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
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	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	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	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	488.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	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
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
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	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0		WDS	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	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	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	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	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
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	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	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	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	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2019	9	60405	FDS Coke Plant, LLC	IPP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
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	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	680.0
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

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	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	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	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	59365	Capital Power Corporation	IPP	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	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	Magic Valley Wind Farm III LLC	TX	60362	MVIII	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
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	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
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	100.0	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 Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(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	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	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	60497	Sun Streams, LLC	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
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	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	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	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	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	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	60335	White Wing Ranch North, LLC	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	(L) Regulatory approvals pending. Not under construction	250.0
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

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	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	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	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	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
2020	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
2020	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
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	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	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	59588	Lake Creek 3 Power 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	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	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	6	56883	Tradinghouse Power 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	56883	Tradinghouse Power 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	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	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	60463	American Kings Solar, LLC	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	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	12	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	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
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	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
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	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	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	97.0	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	CCGS4	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2023	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	4	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	4	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	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	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2017	5	13143	Board of Water Electric & Communications	Electric Utility	Muscatine Plant #1	IA	1167	8A	18.8	Conventional Steam Coal	SUB	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	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	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	55838	EXC Wind 1	IPP	EXC Wind 1 LLC	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	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.5	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2017	9	19558	Homer Electric Assn Inc	Electric Utility	Seldovia	AK	6283	6	1.2	Petroleum Liquids	DFO	IC
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	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	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

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	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN1	0.5	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN2	0.5	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN3	0.7	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN4	0.7	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN5	0.7	Petroleum Liquids	DFO	IC
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	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	1	908.0	Nuclear	NUC	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	2	911.0	Nuclear	NUC	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.8	Petroleum Liquids	KER	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	Nuclear	NUC	ST
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA

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	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	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	302.4	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	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	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	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	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	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
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	44.1	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	28.4	Natural Gas Fired Combustion Turbine	NG	GT
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	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	78.0	Conventional Steam Coal	SUB	ST

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	78.0	Conventional Steam Coal	SUB	ST
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
2020	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	BIT	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	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	SUB	ST
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

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
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	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	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	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	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
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	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	167.8	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	GEN1	18.0	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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	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	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	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	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	SUB	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
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
2034	6	58944	Enerparc CA 1, LLC	IPP	Enerparc CA1 LLC	CA	59122	ECA11	1.5	Solar Photovoltaic	SUN	PV
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT

NOTES:

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

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

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

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

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

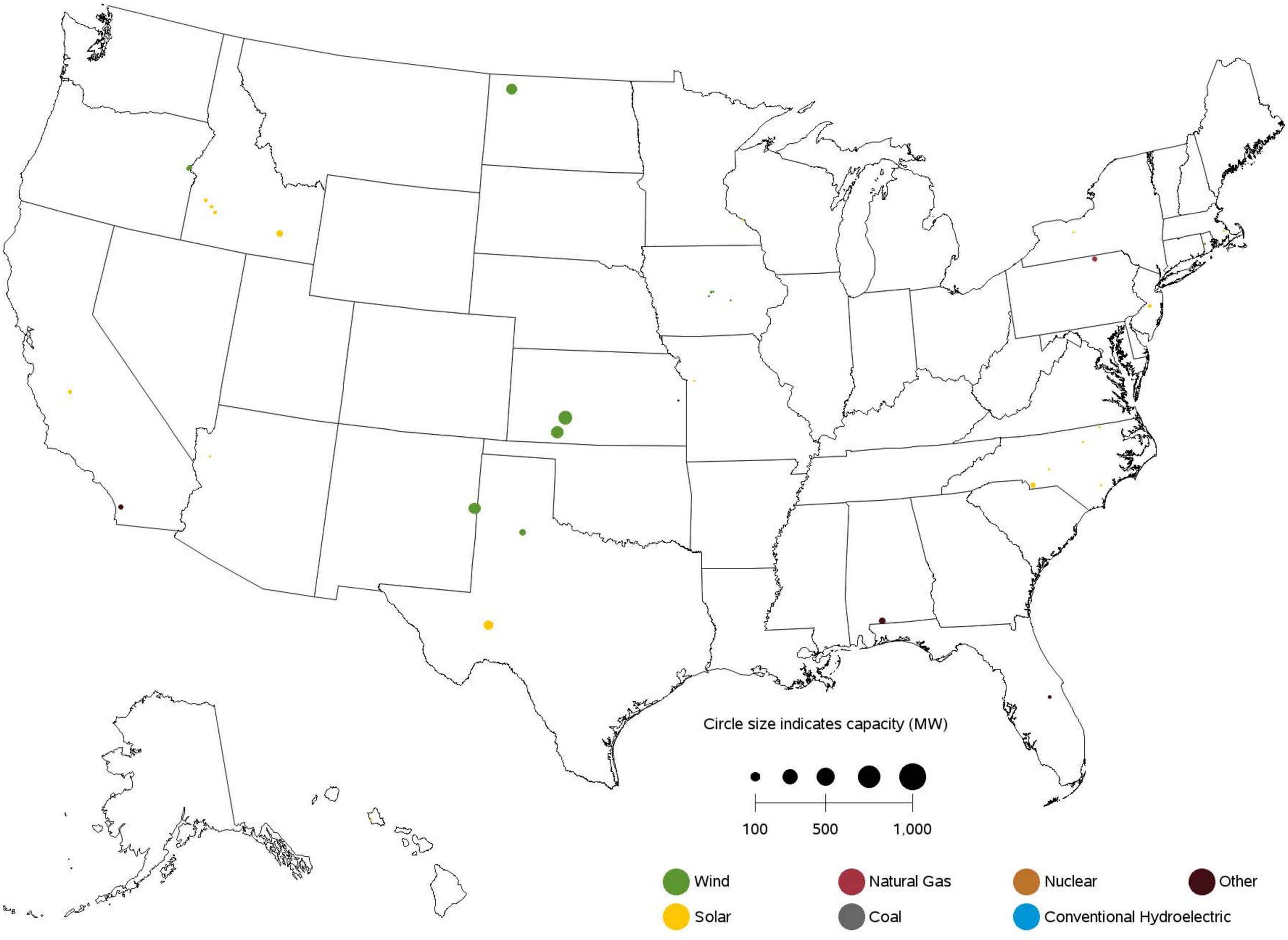
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

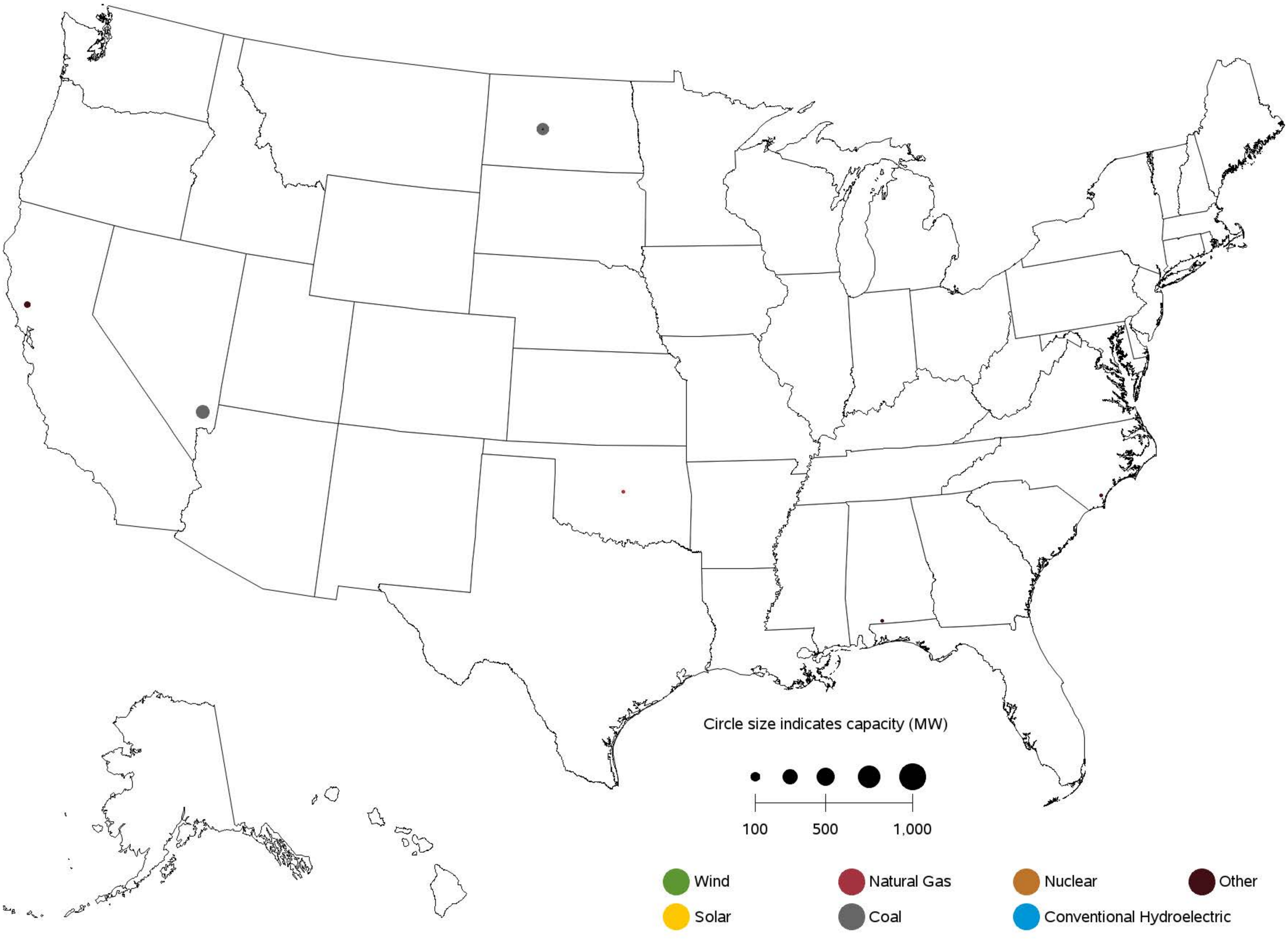
Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations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



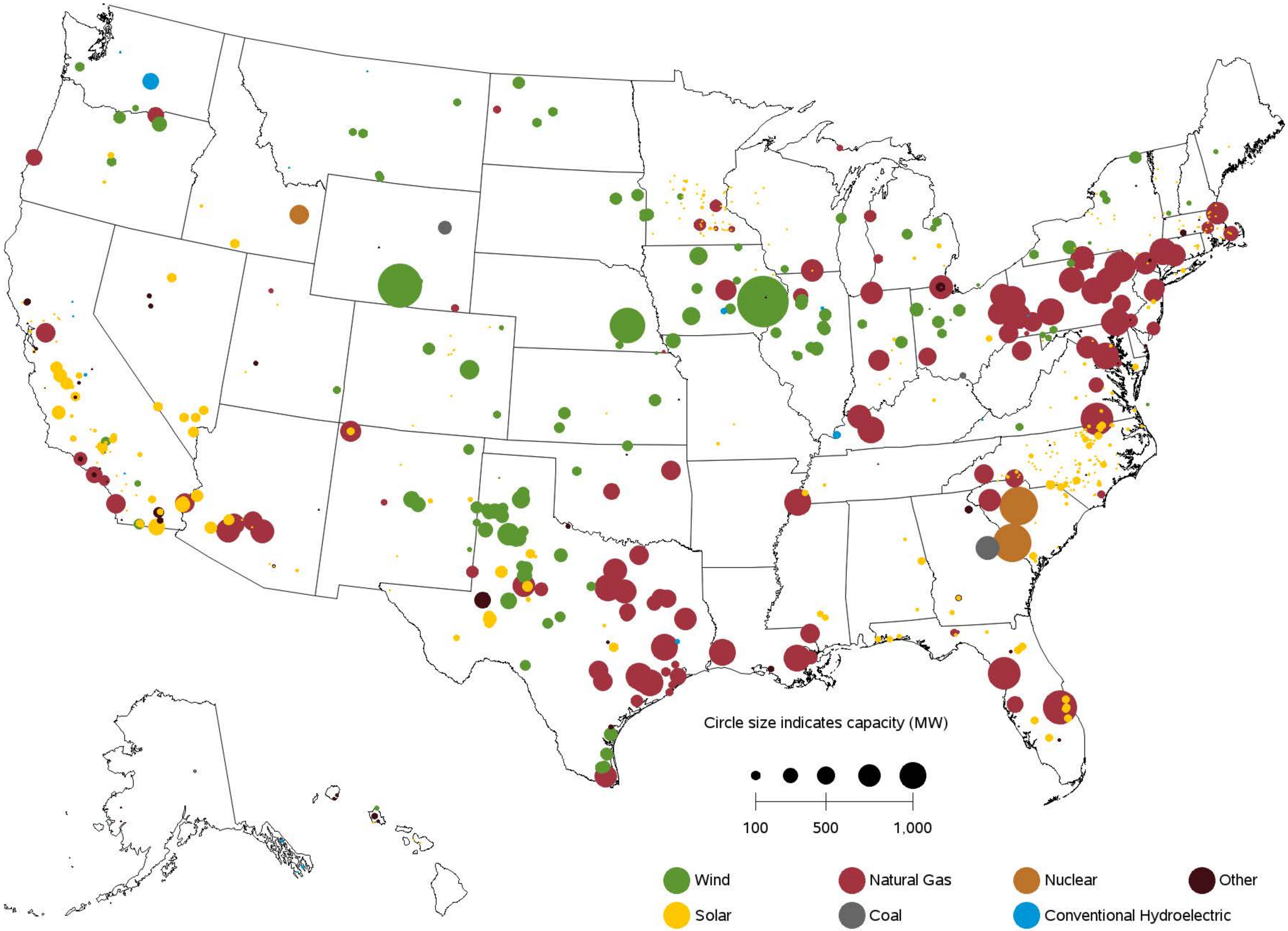
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



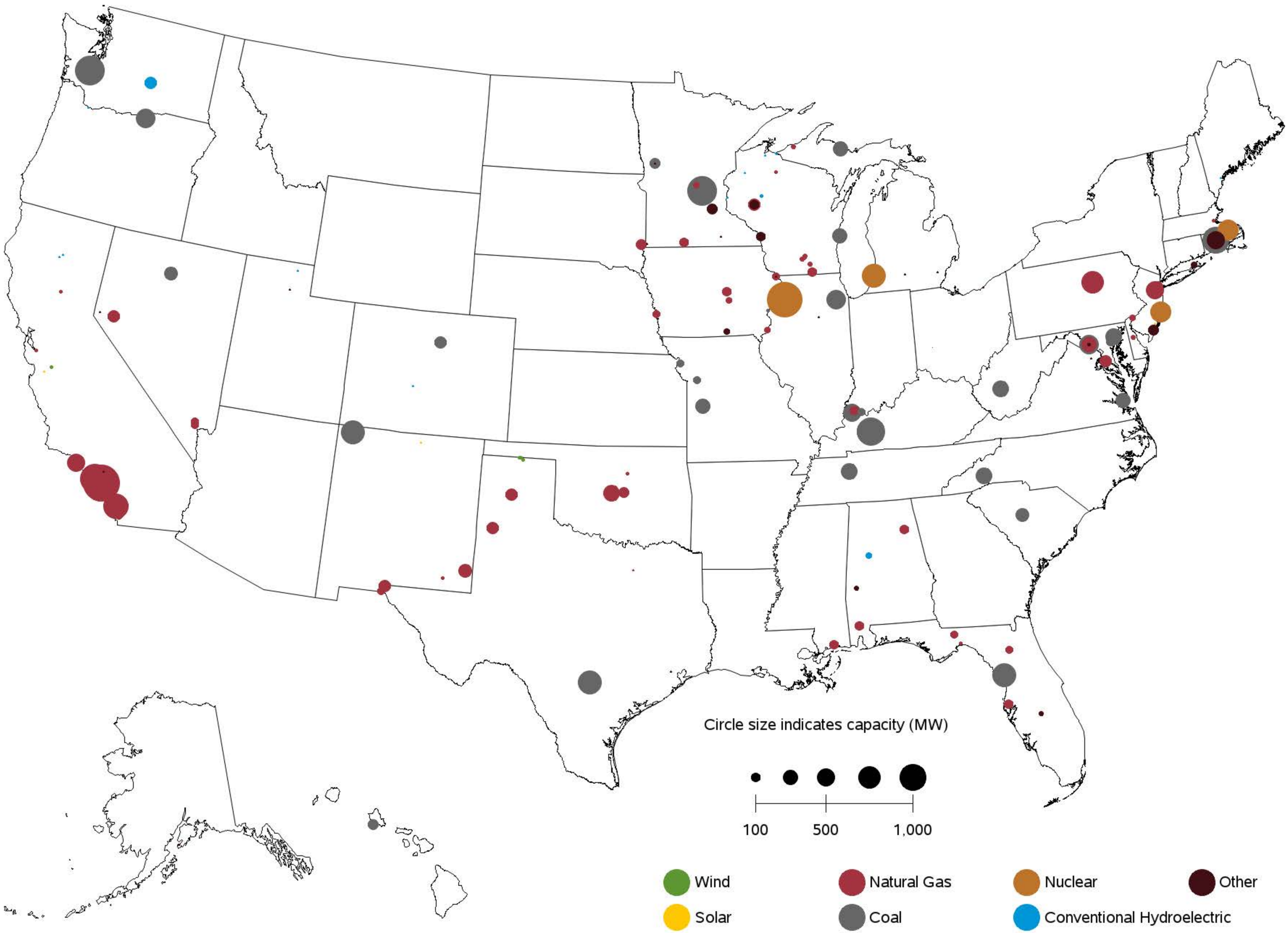
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from April 2017 to March 2018



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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**82**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	39	0	4	0	0	31
Maine	54	42	0	48	0	0	10
Massachusetts	0	172	0	7	0	0	20
New Hampshire	0	10	0	0	0	0	17
Rhode Island	0	533	0	30	0	0	0
Vermont	0	16	0	0	0	0	16
Middle Atlantic	**2**	**65**	**79**	**2**	**28**	**0**	**2**
New Jersey	0	651	0	7	0	0	124
New York	0	94	0	4	0	0	2
Pennsylvania	2	12	119	2	39	0	11
East North Central	**0**	**20**	**29**	**3**	**10**	**0**	**21**
Illinois	0	3	0	8	0	0	43
Indiana	1	4	0	4	17	0	27
Michigan	2	59	0	4	0	0	42
Ohio	1	2	52	3	27	0	25
Wisconsin	1	290	0	11	0	0	33
West North Central	**1**	**45**	**0**	**17**	**0**	**0**	**15**
Iowa	2	68	0	40	0	0	62
Kansas	6	15	0	12	0	0	0
Minnesota	4	315	0	23	0	0	56
Missouri	1	3	0	33	0	0	14
Nebraska	3	590	0	59	0	0	43
North Dakota	0	17	0	58	0	0	33
South Dakota	0	271	0	55	0	0	21
South Atlantic	**1**	**22**	**109**	**1**	**33**	**0**	**7**
Delaware	0	87	0	12	36	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	1	26	111	3	0	0	11
Maryland	0	11	0	9	0	0	1
North Carolina	0	32	0	2	0	0	10
South Carolina	0	90	0	5	0	0	14
Virginia	4	129	0	3	0	0	20
West Virginia	1	0	0	28	0	0	17
East South Central	**1**	**9**	**0**	**2**	**25**	**0**	**4**
Alabama	0	33	0	3	37	0	5
Kentucky	3	8	0	3	0	0	10
Mississippi	0	39	0	3	0	0	0
Tennessee	0	1	0	3	0	0	6
West South Central	**0**	**33**	**0**	**1**	**5**	**0**	**7**
Arkansas	0	616	0	7	0	0	10
Louisiana	0	206	0	3	8	0	16
Oklahoma	0	17	0	4	0	0	11
Texas	0	24	0	2	6	0	22
Mountain	**1**	**26**	**0**	**2**	**0**	**0**	**9**
Arizona	0	49	0	1	0	0	9
Colorado	0	147	0	1	0	0	32
Idaho	124	0	0	29	0	0	17
Montana	5	49	0	48	0	0	16
Nevada	0	0	0	0	0	0	4
New Mexico	0	97	0	3	0	0	98
Utah	0	1	0	3	0	0	52
Wyoming	3	1	0	25	0	0	49
Pacific Contiguous	**0**	**85**	**0**	**2**	**2**	**0**	**2**
California	0	89	0	1	3	0	6
Oregon	0	47,006	0	15	0	0	6
Washington	0	151	0	16	0	0	2
Pacific Noncontiguous	**13**	**2**	**0**	**37**	**0**	**0**	**37**
Alaska	54	13	0	37	0	0	38
Hawaii	0	2	0	0	0	0	165
U.S. Total	**0**	**6**	**7**	**1**	**6**	**0**	**2**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	45	17	0	0	2
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	11	8	0	2	4
New Hampshire	0	0	0	0	19	0	0	3
Rhode Island	0	0	0	67	9	0	0	28
Vermont	0	0	0	29	16	0	0	12
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	9	6	0	0	3
New York	0	0	0	21	5	0	3	2
Pennsylvania	0	0	0	30	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**3**	**0**	**4**	**1**
Illinois	0	0	0	21	4	0	0	1
Indiana	0	0	0	17	6	0	0	1
Michigan	0	0	0	60	6	0	12	1
Ohio	0	0	0	29	5	0	0	1
Wisconsin	0	0	0	86	9	0	46	3
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**6**	**1**
Iowa	0	0	0	152	4	0	0	3
Kansas	0	0	0	0	2	0	0	2
Minnesota	0	0	0	10	5	0	4	3
Missouri	0	0	0	42	8	0	0	2
Nebraska	0	0	0	77	7	0	0	4
North Dakota	0	0	0	0	5	0	47	3
South Dakota	0	0	0	244	10	0	0	12
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**0**
Delaware	0	0	0	36	30	0	0	10
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	7	4	0	24	1
Maryland	0	0	0	18	10	0	0	2
North Carolina	0	0	0	5	3	0	0	1
South Carolina	0	0	0	55	7	0	0	1
Virginia	0	0	0	21	10	0	0	1
West Virginia	0	0	0	0	9	0	0	1
East South Central	**0**	**0**	**0**	**19**	**3**	**0**	**0**	**1**
Alabama	0	0	0	28	4	0	0	1
Kentucky	0	0	0	0	17	0	0	2
Mississippi	0	0	0	139	4	0	0	2
Tennessee	0	0	0	27	7	0	0	1
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	19	6	0	0	2
Louisiana	0	0	0	0	5	0	5	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	1	0	5	1
Mountain	**0**	**10**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	11	3	0	0	2
Idaho	0	42	0	15	8	0	0	12
Montana	0	0	0	0	11	0	0	8
Nevada	0	10	0	4	6	0	0	1
New Mexico	0	0	0	9	4	0	0	1
Utah	0	18	0	8	6	0	0	2
Wyoming	0	0	0	0	8	0	0	3
Pacific Contiguous	**0**	**4**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	4	0	2	2	0	2	2
Oregon	0	26	0	24	6	0	0	5
Washington	0	0	0	0	5	0	0	2
Pacific Noncontiguous	**0**	**26**	**0**	**23**	**9**	**0**	**0**	**7**
Alaska	0	0	0	0	29	0	0	19
Hawaii	0	26	0	23	9	0	0	2
U.S. Total	**0**	**5**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**82**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	39	0	4	0	0	31
Maine	54	42	0	48	0	0	10
Massachusetts	0	172	0	7	0	0	20
New Hampshire	0	10	0	0	0	0	17
Rhode Island	0	533	0	30	0	0	0
Vermont	0	16	0	0	0	0	16
Middle Atlantic	**2**	**65**	**79**	**2**	**28**	**0**	**2**
New Jersey	0	651	0	7	0	0	124
New York	0	94	0	4	0	0	2
Pennsylvania	2	12	119	2	39	0	11
East North Central	**0**	**20**	**29**	**3**	**10**	**0**	**21**
Illinois	0	3	0	8	0	0	43
Indiana	1	4	0	4	17	0	27
Michigan	2	59	0	4	0	0	42
Ohio	1	2	52	3	27	0	25
Wisconsin	1	290	0	11	0	0	33
West North Central	**1**	**45**	**0**	**17**	**0**	**0**	**15**
Iowa	2	68	0	40	0	0	62
Kansas	6	15	0	12	0	0	0
Minnesota	4	315	0	23	0	0	56
Missouri	1	3	0	33	0	0	14
Nebraska	3	590	0	59	0	0	43
North Dakota	0	17	0	58	0	0	33
South Dakota	0	271	0	55	0	0	21
South Atlantic	**1**	**22**	**109**	**1**	**33**	**0**	**7**
Delaware	0	87	0	12	36	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	1	26	111	3	0	0	11
Maryland	0	11	0	9	0	0	1
North Carolina	0	32	0	2	0	0	10
South Carolina	0	90	0	5	0	0	14
Virginia	4	129	0	3	0	0	20
West Virginia	1	0	0	28	0	0	17
East South Central	**1**	**9**	**0**	**2**	**25**	**0**	**4**
Alabama	0	33	0	3	37	0	5
Kentucky	3	8	0	3	0	0	10
Mississippi	0	39	0	3	0	0	0
Tennessee	0	1	0	3	0	0	6
West South Central	**0**	**33**	**0**	**1**	**5**	**0**	**7**
Arkansas	0	616	0	7	0	0	10
Louisiana	0	206	0	3	8	0	16
Oklahoma	0	17	0	4	0	0	11
Texas	0	24	0	2	6	0	22
Mountain	**1**	**26**	**0**	**2**	**0**	**0**	**9**
Arizona	0	49	0	1	0	0	9
Colorado	0	147	0	1	0	0	32
Idaho	124	0	0	29	0	0	17
Montana	5	49	0	48	0	0	16
Nevada	0	0	0	0	0	0	4
New Mexico	0	97	0	3	0	0	98
Utah	0	1	0	3	0	0	52
Wyoming	3	1	0	25	0	0	49
Pacific Contiguous	**0**	**85**	**0**	**2**	**2**	**0**	**2**
California	0	89	0	1	3	0	6
Oregon	0	47,006	0	15	0	0	6
Washington	0	151	0	16	0	0	2
Pacific Noncontiguous	**13**	**2**	**0**	**37**	**0**	**0**	**37**
Alaska	54	13	0	37	0	0	38
Hawaii	0	2	0	0	0	0	165
U.S. Total	**0**	**6**	**7**	**1**	**6**	**0**	**2**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	45	17	0	0	2
Maine	0	0	0	0	8	0	0	9
Massachusetts	0	0	0	11	8	0	2	4
New Hampshire	0	0	0	0	19	0	0	3
Rhode Island	0	0	0	67	9	0	0	28
Vermont	0	0	0	29	16	0	0	12
Middle Atlantic	**0**	**0**	**0**	**8**	**3**	**0**	**1**	**1**
New Jersey	0	0	0	9	6	0	0	3
New York	0	0	0	21	5	0	3	2
Pennsylvania	0	0	0	30	5	0	0	1
East North Central	**0**	**0**	**0**	**13**	**3**	**0**	**4**	**1**
Illinois	0	0	0	21	4	0	0	1
Indiana	0	0	0	17	6	0	0	1
Michigan	0	0	0	60	6	0	12	1
Ohio	0	0	0	29	5	0	0	1
Wisconsin	0	0	0	86	9	0	46	3
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**6**	**1**
Iowa	0	0	0	152	4	0	0	3
Kansas	0	0	0	0	2	0	0	2
Minnesota	0	0	0	10	5	0	4	3
Missouri	0	0	0	42	8	0	0	2
Nebraska	0	0	0	77	7	0	0	4
North Dakota	0	0	0	0	5	0	47	3
South Dakota	0	0	0	244	10	0	0	12
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**0**
Delaware	0	0	0	36	30	0	0	10
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	6	3	0	1	1
Georgia	0	0	0	7	4	0	24	1
Maryland	0	0	0	18	10	0	0	2
North Carolina	0	0	0	5	3	0	0	1
South Carolina	0	0	0	55	7	0	0	1
Virginia	0	0	0	21	10	0	0	1
West Virginia	0	0	0	0	9	0	0	1
East South Central	**0**	**0**	**0**	**19**	**3**	**0**	**0**	**1**
Alabama	0	0	0	28	4	0	0	1
Kentucky	0	0	0	0	17	0	0	2
Mississippi	0	0	0	139	4	0	0	2
Tennessee	0	0	0	27	7	0	0	1
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**3**	**1**
Arkansas	0	0	0	19	6	0	0	2
Louisiana	0	0	0	0	5	0	5	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	1	0	5	1
Mountain	**0**	**10**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	4	0	0	1
Colorado	0	0	0	11	3	0	0	2
Idaho	0	42	0	15	8	0	0	12
Montana	0	0	0	0	11	0	0	8
Nevada	0	10	0	4	6	0	0	1
New Mexico	0	0	0	9	4	0	0	1
Utah	0	18	0	8	6	0	0	2
Wyoming	0	0	0	0	8	0	0	3
Pacific Contiguous	**0**	**4**	**0**	**2**	**2**	**0**	**2**	**1**
California	0	4	0	2	2	0	2	2
Oregon	0	26	0	24	6	0	0	5
Washington	0	0	0	0	5	0	0	2
Pacific Noncontiguous	**0**	**26**	**0**	**23**	**9**	**0**	**0**	**7**
Alaska	0	0	0	0	29	0	0	19
Hawaii	0	26	0	23	9	0	0	2
U.S. Total	**0**	**5**	**0**	**2**	**1**	**0**	**1**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**95**	**0**	**119**	**0**	**0**	**18**
Connecticut	0	17	0	0	0	0	32
Maine	0	0	0	0	0	0	0
Massachusetts	0	708	0	144	0	0	42
New Hampshire	0	8	0	0	0	0	30
Rhode Island	0	0	0	0	0	0	0
Vermont	0	22	0	0	0	0	27
Middle Atlantic	**0**	**211**	**0**	**10**	**0**	**0**	**1**
New Jersey	0	223	0	0	0	0	0
New York	0	211	0	10	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**37**	**0**	**5**	**14**	**0**	**24**
Illinois	0	31	0	55	0	0	77
Indiana	1	4	0	5	76	0	27
Michigan	2	68	0	12	0	0	44
Ohio	3	3	0	5	0	0	35
Wisconsin	0	298	0	12	0	0	36
West North Central	**1**	**45**	**0**	**19**	**0**	**0**	**15**
Iowa	3	68	0	44	0	0	63
Kansas	6	15	0	12	0	0	0
Minnesota	4	385	0	26	0	0	76
Missouri	1	3	0	41	0	0	14
Nebraska	4	590	0	59	0	0	43
North Dakota	0	17	0	59	0	0	33
South Dakota	0	272	0	55	0	0	21
South Atlantic	**0**	**26**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	0	15	0	3	0	0	11
Maryland	0	51	0	0	0	0	0
North Carolina	0	39	0	1	0	0	10
South Carolina	0	108	0	6	0	0	14
Virginia	4	166	0	3	0	0	20
West Virginia	0	0	0	0	0	0	30
East South Central	**1**	**5**	**0**	**2**	**0**	**0**	**4**
Alabama	0	5	0	6	0	0	5
Kentucky	3	8	0	4	0	0	10
Mississippi	0	43	0	3	0	0	0
Tennessee	0	1	0	3	0	0	6
West South Central	**0**	**91**	**0**	**4**	**0**	**0**	**8**
Arkansas	0	2,855	0	36	0	0	10
Louisiana	0	206	0	5	0	0	0
Oklahoma	0	17	0	7	0	0	11
Texas	0	121	0	9	0	0	23
Mountain	**1**	**31**	**0**	**2**	**0**	**0**	**9**
Arizona	0	49	0	2	0	0	9
Colorado	0	147	0	0	0	0	34
Idaho	0	0	0	39	0	0	18
Montana	0	3,038	0	55	0	0	16
Nevada	0	0	0	0	0	0	0
New Mexico	0	97	0	3	0	0	98
Utah	0	1	0	4	0	0	53
Wyoming	3	1	0	181	0	0	49
Pacific Contiguous	**0**	**126**	**0**	**5**	**0**	**0**	**2**
California	0	109	0	1	0	0	5
Oregon	0	143,087	0	29	0	0	6
Washington	0	1,211	0	19	0	0	2
Pacific Noncontiguous	**86**	**3**	**0**	**39**	**0**	**0**	**39**
Alaska	86	14	0	39	0	0	39
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**6**	**0**	**1**	**14**	**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, March 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**	**39**	**9**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	48	50	0	0	64
New Hampshire	0	0	0	0	0	0	0	12
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	50	13	0	0	13
Middle Atlantic	**0**	**0**	**0**	**33**	**33**	**0**	**0**	**3**
New Jersey	0	0	0	33	33	0	0	5
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**	**27**	**9**	**0**	**3**	**1**
Illinois	0	0	0	0	30	0	0	9
Indiana	0	0	0	32	21	0	0	1
Michigan	0	0	0	60	12	0	0	2
Ohio	0	0	0	79	74	0	0	3
Wisconsin	0	0	0	0	15	0	32	4
West North Central	**0**	**0**	**0**	**110**	**3**	**0**	**9**	**2**
Iowa	0	0	0	152	4	0	0	4
Kansas	0	0	0	0	6	0	0	3
Minnesota	0	0	0	161	9	0	0	4
Missouri	0	0	0	0	66	0	0	2
Nebraska	0	0	0	0	26	0	0	4
North Dakota	0	0	0	0	10	0	47	3
South Dakota	0	0	0	0	17	0	0	14
South Atlantic	**0**	**0**	**0**	**7**	**11**	**0**	**0**	**0**
Delaware	0	0	0	97	97	0	0	97
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	16	16	0	0	1
Maryland	0	0	0	84	84	0	0	77
North Carolina	0	0	0	18	18	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	32	22	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**43**	**0**	**0**	**1**
Alabama	0	0	0	0	0	0	0	1
Kentucky	0	0	0	0	43	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**	**75**	**6**	**0**	**0**	**2**
Arkansas	0	0	0	244	244	0	0	3
Louisiana	0	0	0	0	0	0	0	3
Oklahoma	0	0	0	0	6	0	0	3
Texas	0	0	0	0	21	0	0	3
Mountain	**0**	**25**	**0**	**9**	**8**	**0**	**0**	**1**
Arizona	0	0	0	10	10	0	0	1
Colorado	0	0	0	0	32	0	0	2
Idaho	0	0	0	0	122	0	0	16
Montana	0	0	0	0	31	0	0	15
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	21	21	0	0	1
Utah	0	25	0	0	25	0	0	3
Wyoming	0	0	0	0	11	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**13**	**4**	**0**	**0**	**2**
California	0	0	0	13	5	0	0	3
Oregon	0	0	0	99	7	0	0	5
Washington	0	0	0	0	6	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**10**
Alaska	0	0	0	0	45	0	0	21
Hawaii	0	0	0	0	0	0	0	2
U.S. Total	**0**	**7**	**0**	**5**	**3**	**0**	**3**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**95**	**0**	**119**	**0**	**0**	**18**
Connecticut	0	17	0	0	0	0	32
Maine	0	0	0	0	0	0	0
Massachusetts	0	708	0	144	0	0	42
New Hampshire	0	8	0	0	0	0	30
Rhode Island	0	0	0	0	0	0	0
Vermont	0	22	0	0	0	0	27
Middle Atlantic	**0**	**211**	**0**	**10**	**0**	**0**	**1**
New Jersey	0	223	0	0	0	0	0
New York	0	211	0	10	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**37**	**0**	**5**	**14**	**0**	**24**
Illinois	0	31	0	55	0	0	77
Indiana	1	4	0	5	76	0	27
Michigan	2	68	0	12	0	0	44
Ohio	3	3	0	5	0	0	35
Wisconsin	0	298	0	12	0	0	36
West North Central	**1**	**45**	**0**	**19**	**0**	**0**	**15**
Iowa	3	68	0	44	0	0	63
Kansas	6	15	0	12	0	0	0
Minnesota	4	385	0	26	0	0	76
Missouri	1	3	0	41	0	0	14
Nebraska	4	590	0	59	0	0	43
North Dakota	0	17	0	59	0	0	33
South Dakota	0	272	0	55	0	0	21
South Atlantic	**0**	**26**	**0**	**1**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	5	0	1	0	0	34
Georgia	0	15	0	3	0	0	11
Maryland	0	51	0	0	0	0	0
North Carolina	0	39	0	1	0	0	10
South Carolina	0	108	0	6	0	0	14
Virginia	4	166	0	3	0	0	20
West Virginia	0	0	0	0	0	0	30
East South Central	**1**	**5**	**0**	**2**	**0**	**0**	**4**
Alabama	0	5	0	6	0	0	5
Kentucky	3	8	0	4	0	0	10
Mississippi	0	43	0	3	0	0	0
Tennessee	0	1	0	3	0	0	6
West South Central	**0**	**91**	**0**	**4**	**0**	**0**	**8**
Arkansas	0	2,855	0	36	0	0	10
Louisiana	0	206	0	5	0	0	0
Oklahoma	0	17	0	7	0	0	11
Texas	0	121	0	9	0	0	23
Mountain	**1**	**31**	**0**	**2**	**0**	**0**	**9**
Arizona	0	49	0	2	0	0	9
Colorado	0	147	0	0	0	0	34
Idaho	0	0	0	39	0	0	18
Montana	0	3,038	0	55	0	0	16
Nevada	0	0	0	0	0	0	0
New Mexico	0	97	0	3	0	0	98
Utah	0	1	0	4	0	0	53
Wyoming	3	1	0	181	0	0	49
Pacific Contiguous	**0**	**126**	**0**	**5**	**0**	**0**	**2**
California	0	109	0	1	0	0	5
Oregon	0	143,087	0	29	0	0	6
Washington	0	1,211	0	19	0	0	2
Pacific Noncontiguous	**86**	**3**	**0**	**39**	**0**	**0**	**39**
Alaska	86	14	0	39	0	0	39
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**6**	**0**	**1**	**14**	**0**	**2**

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

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

Electric Utilities by Census Division and State, Year-to-Date through March 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**	**39**	**9**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	48	50	0	0	64
New Hampshire	0	0	0	0	0	0	0	12
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	50	13	0	0	13
Middle Atlantic	**0**	**0**	**0**	**33**	**33**	**0**	**0**	**3**
New Jersey	0	0	0	33	33	0	0	5
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**	**27**	**9**	**0**	**3**	**1**
Illinois	0	0	0	0	30	0	0	9
Indiana	0	0	0	32	21	0	0	1
Michigan	0	0	0	60	12	0	0	2
Ohio	0	0	0	79	74	0	0	3
Wisconsin	0	0	0	0	15	0	32	4
West North Central	**0**	**0**	**0**	**110**	**3**	**0**	**9**	**2**
Iowa	0	0	0	152	4	0	0	4
Kansas	0	0	0	0	6	0	0	3
Minnesota	0	0	0	161	9	0	0	4
Missouri	0	0	0	0	66	0	0	2
Nebraska	0	0	0	0	26	0	0	4
North Dakota	0	0	0	0	10	0	47	3
South Dakota	0	0	0	0	17	0	0	14
South Atlantic	**0**	**0**	**0**	**7**	**11**	**0**	**0**	**0**
Delaware	0	0	0	97	97	0	0	97
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	16	16	0	0	1
Maryland	0	0	0	84	84	0	0	77
North Carolina	0	0	0	18	18	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	32	22	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**43**	**0**	**0**	**1**
Alabama	0	0	0	0	0	0	0	1
Kentucky	0	0	0	0	43	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**	**75**	**6**	**0**	**0**	**2**
Arkansas	0	0	0	244	244	0	0	3
Louisiana	0	0	0	0	0	0	0	3
Oklahoma	0	0	0	0	6	0	0	3
Texas	0	0	0	0	21	0	0	3
Mountain	**0**	**25**	**0**	**9**	**8**	**0**	**0**	**1**
Arizona	0	0	0	10	10	0	0	1
Colorado	0	0	0	0	32	0	0	2
Idaho	0	0	0	0	122	0	0	16
Montana	0	0	0	0	31	0	0	15
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	21	21	0	0	1
Utah	0	25	0	0	25	0	0	3
Wyoming	0	0	0	0	11	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**13**	**4**	**0**	**0**	**2**
California	0	0	0	13	5	0	0	3
Oregon	0	0	0	99	7	0	0	5
Washington	0	0	0	0	6	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**10**
Alaska	0	0	0	0	45	0	0	21
Hawaii	0	0	0	0	0	0	0	2
U.S. Total	**0**	**7**	**0**	**5**	**3**	**0**	**3**	**1**

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

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

Independent Power Producers by Census Division and State, March 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**142**	**0**	**6**	**0**	**0**	**8**
Connecticut	0	50	0	5	0	0	34
Maine	0	20	0	60	0	0	10
Massachusetts	0	214	0	7	0	0	22
New Hampshire	0	1,035	0	0	0	0	19
Rhode Island	0	2,368	0	30	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**76**	**0**	**3**	**0**	**0**	**9**
New Jersey	0	660	0	7	0	0	124
New York	0	140	0	4	0	0	9
Pennsylvania	2	12	0	2	0	0	12
East North Central	**0**	**2**	**52**	**2**	**12**	**0**	**52**
Illinois	0	1	0	7	0	0	45
Indiana	0	0	0	4	0	0	0
Michigan	0	0	0	2	0	0	162
Ohio	0	3	52	3	34	0	36
Wisconsin	0	0	0	0	0	0	171
West North Central	**0**	**31**	**0**	**42**	**0**	**0**	**108**
Iowa	0	85	0	2,646	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	29	0	46	0	0	122
Missouri	0	0	0	62	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**6**	**14**	**0**	**4**	**0**	**0**	**4**
Delaware	0	87	0	13	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	63	0	19	0	0	0
Georgia	0	180	0	8	0	0	99
Maryland	0	11	0	10	0	0	1
North Carolina	0	26	0	11	0	0	90
South Carolina	0	0	0	5	0	0	73
Virginia	0	18	0	2	0	0	48
West Virginia	10	0	0	123	0	0	30
East South Central	**0**	**72**	**0**	**2**	**0**	**0**	**184**
Alabama	0	73	0	3	0	0	0
Kentucky	0	0	0	0	0	0	184
Mississippi	0	0	0	0	0	0	0
Tennessee	0	458	0	0	0	0	0
West South Central	**0**	**5**	**0**	**1**	**5**	**0**	**16**
Arkansas	0	0	0	2	0	0	90
Louisiana	0	0	0	0	0	0	16
Oklahoma	0	0	0	0	0	0	0
Texas	0	6	0	2	5	0	0
Mountain	**4**	**4**	**0**	**6**	**0**	**0**	**44**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	4	0	0	106
Idaho	0	0	0	46	0	0	54
Montana	5	5	0	43	0	0	136
Nevada	0	0	0	0	0	0	172
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**	**28**	**0**	**3**	**0**	**0**	**26**
California	0	0	0	2	0	0	29
Oregon	0	0	0	6	0	0	94
Washington	0	49	0	24	0	0	84
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	76	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**20**	**36**	**1**	**8**	**0**	**7**

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**8**	**0**	**1**	**3**
Connecticut	0	0	0	49	17	0	0	2
Maine	0	0	0	0	10	0	0	11
Massachusetts	0	0	0	11	8	0	2	4
New Hampshire	0	0	0	0	24	0	0	3
Rhode Island	0	0	0	67	9	0	0	28
Vermont	0	0	0	34	38	0	0	18
Middle Atlantic	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	21	5	0	0	2
Pennsylvania	0	0	0	33	6	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**28**	**1**
Illinois	0	0	0	22	4	0	0	1
Indiana	0	0	0	20	6	0	0	3
Michigan	0	0	0	0	8	0	33	2
Ohio	0	0	0	31	5	0	0	1
Wisconsin	0	0	0	86	14	0	0	2
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	6	0	0	4
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	5	0	0	6
Missouri	0	0	0	43	8	0	0	25
Nebraska	0	0	0	77	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	244	11	0	0	11
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	40	36	0	0	12
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	36	5	0	1	10
Georgia	0	0	0	8	7	0	0	7
Maryland	0	0	0	19	12	0	0	2
North Carolina	0	0	0	5	4	0	0	5
South Carolina	0	0	0	55	39	0	0	7
Virginia	0	0	0	27	19	0	0	2
West Virginia	0	0	0	0	9	0	0	9
East South Central	**0**	**0**	**0**	**20**	**13**	**0**	**0**	**2**
Alabama	0	0	0	28	17	0	0	3
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	139	93	0	0	0
Tennessee	0	0	0	27	24	0	0	24
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	33	0	0	2
Louisiana	0	0	0	0	46	0	0	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	1	0	0	1
Mountain	**0**	**10**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	3
Colorado	0	0	0	11	3	0	0	3
Idaho	0	42	0	15	9	0	0	15
Montana	0	0	0	0	12	0	0	5
Nevada	0	10	0	4	6	0	0	4
New Mexico	0	0	0	10	4	0	0	3
Utah	0	26	0	8	7	0	0	5
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	5	0	2	2	0	0	2
Oregon	0	26	0	24	7	0	0	6
Washington	0	0	0	0	9	0	0	11
Pacific Noncontiguous	**0**	**26**	**0**	**41**	**12**	**0**	**0**	**4**
Alaska	0	0	0	0	63	0	0	53
Hawaii	0	26	0	41	12	0	0	4
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**1**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**142**	**0**	**6**	**0**	**0**	**8**
Connecticut	0	50	0	5	0	0	34
Maine	0	20	0	60	0	0	10
Massachusetts	0	214	0	7	0	0	22
New Hampshire	0	1,035	0	0	0	0	19
Rhode Island	0	2,368	0	30	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**2**	**76**	**0**	**3**	**0**	**0**	**9**
New Jersey	0	660	0	7	0	0	124
New York	0	140	0	4	0	0	9
Pennsylvania	2	12	0	2	0	0	12
East North Central	**0**	**2**	**52**	**2**	**12**	**0**	**52**
Illinois	0	1	0	7	0	0	45
Indiana	0	0	0	4	0	0	0
Michigan	0	0	0	2	0	0	162
Ohio	0	3	52	3	34	0	36
Wisconsin	0	0	0	0	0	0	171
West North Central	**0**	**31**	**0**	**42**	**0**	**0**	**108**
Iowa	0	85	0	2,646	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	29	0	46	0	0	122
Missouri	0	0	0	62	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**6**	**14**	**0**	**4**	**0**	**0**	**4**
Delaware	0	87	0	13	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	63	0	19	0	0	0
Georgia	0	180	0	8	0	0	99
Maryland	0	11	0	10	0	0	1
North Carolina	0	26	0	11	0	0	90
South Carolina	0	0	0	5	0	0	73
Virginia	0	18	0	2	0	0	48
West Virginia	10	0	0	123	0	0	30
East South Central	**0**	**72**	**0**	**2**	**0**	**0**	**184**
Alabama	0	73	0	3	0	0	0
Kentucky	0	0	0	0	0	0	184
Mississippi	0	0	0	0	0	0	0
Tennessee	0	458	0	0	0	0	0
West South Central	**0**	**5**	**0**	**1**	**5**	**0**	**16**
Arkansas	0	0	0	2	0	0	90
Louisiana	0	0	0	0	0	0	16
Oklahoma	0	0	0	0	0	0	0
Texas	0	6	0	2	5	0	0
Mountain	**4**	**4**	**0**	**6**	**0**	**0**	**44**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	4	0	0	106
Idaho	0	0	0	46	0	0	54
Montana	5	5	0	43	0	0	136
Nevada	0	0	0	0	0	0	172
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**	**28**	**0**	**3**	**0**	**0**	**26**
California	0	0	0	2	0	0	29
Oregon	0	0	0	6	0	0	94
Washington	0	49	0	24	0	0	84
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	76	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**20**	**36**	**1**	**8**	**0**	**7**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**10**	**8**	**0**	**1**	**3**
Connecticut	0	0	0	49	17	0	0	2
Maine	0	0	0	0	10	0	0	11
Massachusetts	0	0	0	11	8	0	2	4
New Hampshire	0	0	0	0	24	0	0	3
Rhode Island	0	0	0	67	9	0	0	28
Vermont	0	0	0	34	38	0	0	18
Middle Atlantic	**0**	**0**	**0**	**9**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	11	7	0	0	3
New York	0	0	0	21	5	0	0	2
Pennsylvania	0	0	0	33	6	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**28**	**1**
Illinois	0	0	0	22	4	0	0	1
Indiana	0	0	0	20	6	0	0	3
Michigan	0	0	0	0	8	0	33	2
Ohio	0	0	0	31	5	0	0	1
Wisconsin	0	0	0	86	14	0	0	2
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**0**	**3**
Iowa	0	0	0	0	6	0	0	4
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	5	0	0	6
Missouri	0	0	0	43	8	0	0	25
Nebraska	0	0	0	77	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	244	11	0	0	11
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	40	36	0	0	12
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	36	5	0	1	10
Georgia	0	0	0	8	7	0	0	7
Maryland	0	0	0	19	12	0	0	2
North Carolina	0	0	0	5	4	0	0	5
South Carolina	0	0	0	55	39	0	0	7
Virginia	0	0	0	27	19	0	0	2
West Virginia	0	0	0	0	9	0	0	9
East South Central	**0**	**0**	**0**	**20**	**13**	**0**	**0**	**2**
Alabama	0	0	0	28	17	0	0	3
Kentucky	0	0	0	0	0	0	0	3
Mississippi	0	0	0	139	93	0	0	0
Tennessee	0	0	0	27	24	0	0	24
West South Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	0	33	0	0	2
Louisiana	0	0	0	0	46	0	0	2
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	5	1	0	0	1
Mountain	**0**	**10**	**0**	**2**	**2**	**0**	**0**	**2**
Arizona	0	0	0	3	4	0	0	3
Colorado	0	0	0	11	3	0	0	3
Idaho	0	42	0	15	9	0	0	15
Montana	0	0	0	0	12	0	0	5
Nevada	0	10	0	4	6	0	0	4
New Mexico	0	0	0	10	4	0	0	3
Utah	0	26	0	8	7	0	0	5
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**5**	**0**	**2**	**2**	**0**	**0**	**2**
California	0	5	0	2	2	0	0	2
Oregon	0	26	0	24	7	0	0	6
Washington	0	0	0	0	9	0	0	11
Pacific Noncontiguous	**0**	**26**	**0**	**41**	**12**	**0**	**0**	**4**
Alaska	0	0	0	0	63	0	0	53
Hawaii	0	26	0	41	12	0	0	4
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**1**	**1**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**31**	**0**	**22**	**0**	**0**	**0**
Connecticut	0	157	0	32	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	33	0	35	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**308**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	353	0	29	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**83**	**2**	**0**	**12**	**0**	**0**	**0**
Illinois	117	0	0	40	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	13	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	9	0	0	0
West North Central	**0**	**24**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	6	0	0	0
Minnesota	0	30	0	12	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	448	0	0	0	0	0
South Atlantic	**0**	**1**	**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	11	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**	**33**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	33	0	0	0
West South Central	**0**	**0**	**0**	**22**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	26	0	0	0
Mountain	**0**	**0**	**0**	**11**	**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	44	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**18**	**0**	**5**	**0**	**0**	**0**
California	0	31	0	5	0	0	0
Oregon	0	0	0	76	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**71**	**2**	**0**	**0**	**0**	**0**	**160**
Alaska	71	3	0	0	0	0	160
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**76**	**0**	**5**	**0**	**0**	**108**

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

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

Commercial Sector by Census Division and State, March 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**	**53**	**1**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	31
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	53	5	0	0	30
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**	**20**	**6**	**0**	**5**	**10**
New Jersey	0	0	0	21	10	0	0	7
New York	0	0	0	128	10	0	13	20
Pennsylvania	0	0	0	119	10	0	0	4
East North Central	**0**	**0**	**0**	**141**	**7**	**0**	**0**	**9**
Illinois	0	0	0	0	202	0	0	38
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	8
Ohio	0	0	0	141	24	0	0	2
Wisconsin	0	0	0	0	25	0	0	13
West North Central	**0**	**0**	**0**	**0**	**29**	**0**	**55**	**7**
Iowa	0	0	0	0	40	0	0	5
Minnesota	0	0	0	0	61	0	55	23
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	448
South Atlantic	**0**	**0**	**0**	**26**	**10**	**0**	**0**	**4**
Delaware	0	0	0	170	18	0	0	18
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	0	39	0	0	26
Georgia	0	0	0	135	135	0	0	82
Maryland	0	0	0	101	60	0	0	3
North Carolina	0	0	0	28	23	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	5	0	0	2
East South Central	**0**	**0**	**0**	**141**	**141**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	141	141	0	0	33
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	29
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	23
Mountain	**0**	**0**	**0**	**29**	**25**	**0**	**0**	**10**
Arizona	0	0	0	57	57	0	0	8
Colorado	0	0	0	64	68	0	0	54
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	21
New Mexico	0	0	0	0	195	0	0	43
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**25**	**9**	**0**	**0**	**4**
California	0	0	0	25	9	0	0	4
Oregon	0	0	0	0	54	0	0	49
Washington	0	0	0	0	84	0	0	34
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**30**
Alaska	0	0	0	0	0	0	0	69
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**4**	**0**	**2**	**4**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**31**	**0**	**22**	**0**	**0**	**0**
Connecticut	0	157	0	32	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	33	0	35	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**308**	**0**	**19**	**0**	**0**	**0**
New Jersey	0	0	0	19	0	0	0
New York	0	353	0	29	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**83**	**2**	**0**	**12**	**0**	**0**	**0**
Illinois	117	0	0	40	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	2	0	13	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	9	0	0	0
West North Central	**0**	**24**	**0**	**4**	**0**	**0**	**0**
Iowa	0	0	0	6	0	0	0
Minnesota	0	30	0	12	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	448	0	0	0	0	0
South Atlantic	**0**	**1**	**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	11	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**	**33**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	33	0	0	0
West South Central	**0**	**0**	**0**	**22**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	26	0	0	0
Mountain	**0**	**0**	**0**	**11**	**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	44	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**18**	**0**	**5**	**0**	**0**	**0**
California	0	31	0	5	0	0	0
Oregon	0	0	0	76	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**71**	**2**	**0**	**0**	**0**	**0**	**160**
Alaska	71	3	0	0	0	0	160
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**76**	**0**	**5**	**0**	**0**	**108**

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

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

Commercial Sector by Census Division and State, Year-to-Date through March 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**	**53**	**1**	**0**	**0**	**15**
Connecticut	0	0	0	0	0	0	0	31
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	53	5	0	0	30
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**	**20**	**6**	**0**	**5**	**10**
New Jersey	0	0	0	21	10	0	0	7
New York	0	0	0	128	10	0	13	20
Pennsylvania	0	0	0	119	10	0	0	4
East North Central	**0**	**0**	**0**	**141**	**7**	**0**	**0**	**9**
Illinois	0	0	0	0	202	0	0	38
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	8
Ohio	0	0	0	141	24	0	0	2
Wisconsin	0	0	0	0	25	0	0	13
West North Central	**0**	**0**	**0**	**0**	**29**	**0**	**55**	**7**
Iowa	0	0	0	0	40	0	0	5
Minnesota	0	0	0	0	61	0	55	23
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	448
South Atlantic	**0**	**0**	**0**	**26**	**10**	**0**	**0**	**4**
Delaware	0	0	0	170	18	0	0	18
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	0	39	0	0	26
Georgia	0	0	0	135	135	0	0	82
Maryland	0	0	0	101	60	0	0	3
North Carolina	0	0	0	28	23	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	5	0	0	2
East South Central	**0**	**0**	**0**	**141**	**141**	**0**	**0**	**33**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	141	141	0	0	33
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	29
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	23
Mountain	**0**	**0**	**0**	**29**	**25**	**0**	**0**	**10**
Arizona	0	0	0	57	57	0	0	8
Colorado	0	0	0	64	68	0	0	54
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	21
New Mexico	0	0	0	0	195	0	0	43
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**25**	**9**	**0**	**0**	**4**
California	0	0	0	25	9	0	0	4
Oregon	0	0	0	0	54	0	0	49
Washington	0	0	0	0	84	0	0	34
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**30**
Alaska	0	0	0	0	0	0	0	69
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**4**	**0**	**2**	**4**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**151**	**37**	**0**	**17**	**0**	**0**	**24**
Connecticut	0	0	0	22	0	0	0
Maine	151	77	0	41	0	0	24
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**18**	**7**	**79**	**13**	**28**	**0**	**22**
New Jersey	0	0	0	14	0	0	0
New York	0	5	0	14	0	0	22
Pennsylvania	46	825	119	21	39	0	0
East North Central	**10**	**10**	**0**	**8**	**15**	**0**	**80**
Illinois	8	0	0	23	0	0	0
Indiana	0	1	0	11	17	0	0
Michigan	96	19	0	21	0	0	160
Ohio	123	0	0	7	0	0	0
Wisconsin	32	277	0	21	0	0	90
West North Central	**6**	**0**	**0**	**7**	**0**	**0**	**76**
Iowa	8	0	0	0	0	0	0
Kansas	0	0	0	43	0	0	0
Minnesota	11	0	0	0	0	0	76
Missouri	0	0	0	0	0	0	0
Nebraska	14	0	0	0	0	0	0
North Dakota	105	0	0	0	0	0	0
South Atlantic	**26**	**42**	**111**	**8**	**33**	**0**	**22**
Delaware	0	0	0	25	36	0	0
Florida	88	143	0	16	0	0	0
Georgia	98	92	111	22	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	16	132	0	37	0	0	435
South Carolina	0	0	0	14	0	0	0
Virginia	11	496	0	8	0	0	0
West Virginia	0	0	0	0	0	0	22
East South Central	**8**	**101**	**0**	**11**	**25**	**0**	**0**
Alabama	79	125	0	20	37	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**126**	**0**	**2**	**7**	**0**	**0**
Arkansas	0	2,152	0	25	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	11	0	0
Mountain	**29**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	124	0	0	43	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	29	0	0	11	0	0	0
Pacific Contiguous	**0**	**51**	**0**	**2**	**3**	**0**	**0**
California	0	8	0	1	3	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	89	0	48	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**189**
Alaska	0	7	0	0	0	0	0
Hawaii	0	0	0	0	0	0	189
U.S. Total	**5**	**8**	**26**	**2**	**8**	**0**	**18**

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

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

Industrial Sector by Census Division and State, March 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**	**8**
Connecticut	0	0	0	0	0	0	0	21
Maine	0	0	0	0	7	0	0	10
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**73**	**7**	**0**	**0**	**9**
New Jersey	0	0	0	115	115	0	0	7
New York	0	0	0	0	15	0	0	6
Pennsylvania	0	0	0	83	8	0	0	14
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**6**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	41	0	0	11
Michigan	0	0	0	0	10	0	0	12
Ohio	0	0	0	0	14	0	0	10
Wisconsin	0	0	0	0	10	0	71	15
West North Central	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**5**
Iowa	0	0	0	0	0	0	0	6
Kansas	0	0	0	0	177	0	0	39
Minnesota	0	0	0	0	0	0	0	8
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	14
North Dakota	0	0	0	0	144	0	0	48
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**3**
Delaware	0	0	0	0	91	0	0	20
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	24	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	4
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	18	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	6	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	5	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	6	2
Mountain	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	3	0	0	14
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**51**	**6**	**0**	**3**	**2**
California	0	0	0	51	11	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**148**	**0**	**0**	**26**
Alaska	0	0	0	0	148	0	0	7
Hawaii	0	0	0	0	0	0	0	38
U.S. Total	**0**	**0**	**0**	**45**	**2**	**0**	**1**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**151**	**37**	**0**	**17**	**0**	**0**	**24**
Connecticut	0	0	0	22	0	0	0
Maine	151	77	0	41	0	0	24
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**18**	**7**	**79**	**13**	**28**	**0**	**22**
New Jersey	0	0	0	14	0	0	0
New York	0	5	0	14	0	0	22
Pennsylvania	46	825	119	21	39	0	0
East North Central	**10**	**10**	**0**	**8**	**15**	**0**	**80**
Illinois	8	0	0	23	0	0	0
Indiana	0	1	0	11	17	0	0
Michigan	96	19	0	21	0	0	160
Ohio	123	0	0	7	0	0	0
Wisconsin	32	277	0	21	0	0	90
West North Central	**6**	**0**	**0**	**7**	**0**	**0**	**76**
Iowa	8	0	0	0	0	0	0
Kansas	0	0	0	43	0	0	0
Minnesota	11	0	0	0	0	0	76
Missouri	0	0	0	0	0	0	0
Nebraska	14	0	0	0	0	0	0
North Dakota	105	0	0	0	0	0	0
South Atlantic	**26**	**42**	**111**	**8**	**33**	**0**	**22**
Delaware	0	0	0	25	36	0	0
Florida	88	143	0	16	0	0	0
Georgia	98	92	111	22	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	16	132	0	37	0	0	435
South Carolina	0	0	0	14	0	0	0
Virginia	11	496	0	8	0	0	0
West Virginia	0	0	0	0	0	0	22
East South Central	**8**	**101**	**0**	**11**	**25**	**0**	**0**
Alabama	79	125	0	20	37	0	0
Kentucky	0	0	0	16	0	0	0
Mississippi	0	0	0	28	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**126**	**0**	**2**	**7**	**0**	**0**
Arkansas	0	2,152	0	25	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	3	11	0	0
Mountain	**29**	**0**	**0**	**5**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	124	0	0	43	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	29	0	0	11	0	0	0
Pacific Contiguous	**0**	**51**	**0**	**2**	**3**	**0**	**0**
California	0	8	0	1	3	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	89	0	48	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**189**
Alaska	0	7	0	0	0	0	0
Hawaii	0	0	0	0	0	0	189
U.S. Total	**5**	**8**	**26**	**2**	**8**	**0**	**18**

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

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

Industrial Sector by Census Division and State, Year-to-Date through March 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**	**8**
Connecticut	0	0	0	0	0	0	0	21
Maine	0	0	0	0	7	0	0	10
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**73**	**7**	**0**	**0**	**9**
New Jersey	0	0	0	115	115	0	0	7
New York	0	0	0	0	15	0	0	6
Pennsylvania	0	0	0	83	8	0	0	14
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**3**	**6**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	41	0	0	11
Michigan	0	0	0	0	10	0	0	12
Ohio	0	0	0	0	14	0	0	10
Wisconsin	0	0	0	0	10	0	71	15
West North Central	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**5**
Iowa	0	0	0	0	0	0	0	6
Kansas	0	0	0	0	177	0	0	39
Minnesota	0	0	0	0	0	0	0	8
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	14
North Dakota	0	0	0	0	144	0	0	48
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**3**
Delaware	0	0	0	0	91	0	0	20
Florida	0	0	0	0	6	0	0	5
Georgia	0	0	0	0	4	0	24	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	2	0	0	4
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Alabama	0	0	0	0	4	0	0	6
Kentucky	0	0	0	0	18	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	6	0	0	4
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**2**
Arkansas	0	0	0	0	6	0	0	6
Louisiana	0	0	0	0	5	0	5	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	11	0	6	2
Mountain	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	3	0	0	14
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	8
Pacific Contiguous	**0**	**0**	**0**	**51**	**6**	**0**	**3**	**2**
California	0	0	0	51	11	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**148**	**0**	**0**	**26**
Alaska	0	0	0	0	148	0	0	7
Hawaii	0	0	0	0	0	0	0	38
U.S. Total	**0**	**0**	**0**	**45**	**2**	**0**	**1**	**1**

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

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

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

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

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

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

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	3	0	0
Maine	1	1	2	0	0
Massachusetts	1	1	5	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	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**2**	**0**	**0**
Illinois	1	1	3	0	1
Indiana	2	2	2	0	1
Michigan	1	1	4	0	1
Ohio	1	1	3	0	1
Wisconsin	2	2	6	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	3	6	8	0	3
Kansas	2	2	6	0	2
Minnesota	2	3	7	0	2
Missouri	2	2	7	0	1
Nebraska	3	7	9	0	4
North Dakota	3	4	8	0	3
South Dakota	4	7	13	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	2	2	12	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	1	1	4	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	4	0	2
Mississippi	2	2	5	0	2
Tennessee	2	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	4	0	2
Louisiana	1	1	2	0	1
Oklahoma	2	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	2	5	7	0	3
Idaho	2	4	6	0	2
Montana	4	6	18	0	4
Nevada	1	4	2	0	1
New Mexico	4	8	10	0	4
Utah	3	6	3	0	3
Wyoming	4	6	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	2	3	11	0	2
Washington	1	3	9	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	3	6	11	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.7.B. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers

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

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

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

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through March 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	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	1	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	6	6	0	2
Kansas	2	1	5	0	1
Minnesota	2	3	6	0	2
Missouri	2	1	6	0	1
Nebraska	2	6	8	0	3
North Dakota	2	3	7	0	3
South Dakota	3	7	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	9	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	2	2	4	0	2
Tennessee	1	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	1	4	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	2	4	5	0	2
Idaho	1	3	4	0	1
Montana	2	5	11	0	3
Nevada	1	3	1	0	1
New Mexico	3	7	8	0	3
Utah	2	4	2	0	2
Wyoming	3	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	3	8	0	2
Washington	1	3	6	0	1
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	3	7	9	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table 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-Weather or Natural Disaster	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-Weather or Natural Disaster	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-Weather or Natural Disaster	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-Weather or Natural Disaster	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-Weather or Natural Disaster	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-Weather or Natural Disaster	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-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-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

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

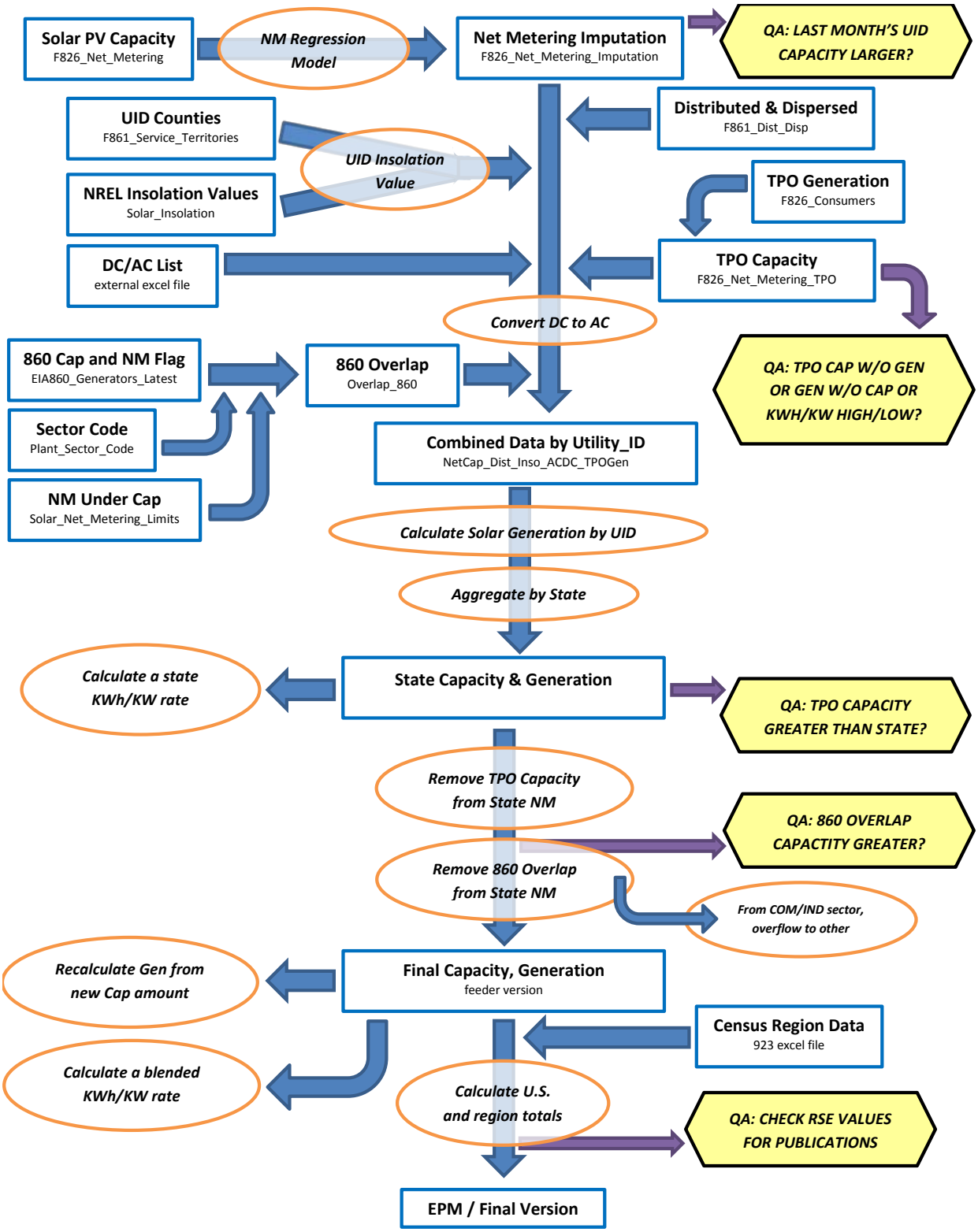
TMY3 (1991-2005) Weather Stations by MSA

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, March 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	25.89	5.81	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.89	6.06	--	1.04
Massachusetts	--	--	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.47	6.12	--	1.04
New Jersey	26.16	5.72	--	1.04
New York	25.29	6.29	--	1.03
Pennsylvania	23.35	5.87	--	1.04
East North Central	20.46	5.81	26.36	1.04
Illinois	17.95	5.81	--	1.00
Indiana	22.48	5.77	--	1.06
Michigan	18.41	5.91	26.36	1.03
Ohio	24.82	5.78	--	1.06
Wisconsin	18.03	5.80	26.58	1.03
West North Central	16.59	5.85	--	1.03
Iowa	17.82	5.78	--	1.03
Kansas	17.22	5.80	--	1.03
Minnesota	17.84	5.80	--	1.02
Missouri	17.64	5.78	--	1.01
Nebraska	16.89	--	--	1.06
North Dakota	13.20	5.89	--	1.00
South Dakota	16.55	6.00	--	--
South Atlantic	23.46	5.81	28.70	1.03
Delaware	25.90	--	--	1.04
District of Columbia	--	--	--	--
Florida	23.61	5.80	28.70	1.02
Georgia	19.94	5.91	--	1.03
Maryland	24.76	5.82	--	1.06
North Carolina	25.03	5.86	--	1.03
South Carolina	24.84	6.08	--	1.03
Virginia	21.38	5.76	--	1.06
West Virginia	24.82	5.70	--	1.09
East South Central	20.43	5.80	27.85	1.03
Alabama	19.51	5.71	--	1.03
Kentucky	21.55	5.83	27.85	1.02
Mississippi	11.97	5.80	--	1.03
Tennessee	22.37	5.78	--	1.01
West South Central	16.02	5.83	27.91	1.03
Arkansas	17.54	--	--	1.02
Louisiana	17.53	--	27.91	1.03
Oklahoma	17.47	5.80	--	1.04
Texas	15.60	5.83	--	1.03
Mountain	18.59	5.76	--	1.05
Arizona	19.22	5.49	--	1.04
Colorado	18.84	--	--	1.09
Idaho	--	--	--	--
Montana	16.94	5.92	--	1.03
Nevada	17.95	5.64	--	1.04
New Mexico	18.56	5.66	--	1.04
Utah	20.82	5.78	--	1.04
Wyoming	17.33	5.88	--	1.05
Pacific Contiguous	19.45	6.00	--	1.03
California	23.00	--	--	1.03
Oregon	17.47	--	--	1.03
Washington	16.37	6.00	--	1.09
Pacific Noncontiguous	20.20	6.14	--	1.00
Alaska	14.00	5.60	--	1.00
Hawaii	21.71	6.14	--	--
U.S. Total	19.27	5.94	27.89	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.