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Electric Power Monthly
with Data for August 2018

October 2018

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Independent Statistics & Analysis
www.eia.gov

U.S. Department of Energy
Washington, DC 20585

Contacts

The Electric Power Monthly is prepared by the U.S. Energy Information Administration.

Questions and comments concerning the contents of the Electric Power Monthly may be directed to:

Ronald Hankey, Project Leader
U.S. Energy Information Administration, EI-23
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC, 20585-0650

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Ronald Hankey
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Joy Liu
U.S. electric fossil-fuel costs	Joy Liu
U.S. sales of electricity to ultimate consumers	Peter Wong
Sampling and estimation methodologies	Orhan Yildiz.

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

Preface

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

Background

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

Data sources

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

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Table ES1.A. Total Electric Power Industry Summary Statistics, 2018 and 2017

Net Generation and Consumption of Fuels for August														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	115,218	119,488	-3.6%	87,383	90,517	27,173	28,293	30	23	633	655	0	0
Petroleum Liquids	Utility Scale Facilities	991	970	2.2%	700	698	243	231	10	8	37	33	0	0
Petroleum Coke	Utility Scale Facilities	878	765	14.9%	686	540	124	140	0	1	68	83	0	0
Natural Gas	Utility Scale Facilities	164,954	141,209	16.8%	80,195	67,671	75,497	64,705	831	766	8,430	8,067	0	0
Other Gas	Utility Scale Facilities	1,224	1,134	7.9%	24	2	369	358	0	0	831	774	0	0
Nuclear	Utility Scale Facilities	72,282	72,384	-0.1%	38,885	38,667	33,398	33,717	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	21,398	21,851	-2.1%	19,240	20,124	2,035	1,617	NM	17	106	93	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	33,280	25,961	28.2%	3,508	2,621	27,022	20,488	288	286	2,461	2,565	0	0
... Wind	Utility Scale Facilities	19,507	13,621	43.2%	2,444	1,810	17,045	11,801	11	6	NM	4	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	6,982	5,434	28.5%	536	318	6,365	5,056	71	55	11	5	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,565	3,753	-5.0%	324	280	861	991	11	7	2,369	2,475	0	0
... Other Biomass	Utility Scale Facilities	1,797	1,808	-0.6%	113	125	1,415	1,383	196	218	74	82	0	0
... Geothermal	Utility Scale Facilities	1,429	1,345	6.2%	92	88	1,337	1,257	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-747	-638	17.1%	-626	-531	-121	-107	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,007	1,220	-17.4%	58	55	442	580	91	100	416	484	0	0
All Energy Sources	Utility Scale Facilities	410,485	384,342	6.8%	230,053	220,364	166,182	150,023	1,267	1,202	12,982	12,754	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,018	2,480	21.7%	0	0	0	0	990	788	267	246	1,761	1,446
Estimated Total Solar Photovoltaic	All Facilities	9,591	7,573	26.6%	530	314	5,961	4,720	1,060	843	278	251	1,761	1,446
Estimated Total Solar	All Facilities	10,000	7,914	26.4%	536	318	6,365	5,056	1,060	843	278	251	1,761	1,446
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	63,710	65,761	-3.1%	47,867	48,954	15,612	16,574	9	7	222	227	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,745	1,710	2.0%	1,257	1,267	425	390	25	19	38	34	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	332	300	10.6%	272	226	39	52	0	0	20	22	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,220,963	1,043,414	17.0%	608,370	516,896	557,994	474,421	5,166	4,803	49,433	47,295	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,032	1,214	-15.0%	195	256	77	100	41	36	720	823	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	195	119	64.2%	4	3	39	11	25	15	128	91	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	69	90	-23.6%	1	2	9	9	0	2	59	77	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	141,825	148,112	-4.2%	4,146	3,216	29,291	27,487	44,204	56,164	64,184	61,245	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	64,742	66,975	-3.3%	48,061	49,209	15,688	16,673	49	43	943	1,050	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,940	1,829	6.1%	1,260	1,270	463	400	50	33	166	125	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	401	390	2.7%	273	228	49	61	0	2	79	99	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,362,788	1,191,526	14.4%	612,516	520,111	587,285	501,908	49,370	60,967	113,617	108,540	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	104,835	142,439	-26.4%	88,189	114,228	15,950	26,976	65	NM	632	1,089	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	25,964	32,775	-20.8%	16,950	20,687	7,621	10,064	348	509	1,044	1,516	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	877	900	-2.6%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for August									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	August 2018	August 2017	Percentage Change	August 2018	August 2017	Percentage Change	August 2018	August 2017	Percentage Change
Residential	152,636	142,007	7.5%	20,306	18,679	8.7%	13.30	13.15	1.1%
Commercial	134,333	128,527	4.5%	14,792	14,143	4.6%	11.01	11.00	0.1%
Industrial	88,761	89,134	-0.4%	6,430	6,435	-0.1%	7.24	7.22	0.3%
Transportation	686	640	7.2%	66	64	3.1%	9.68	10.06	-3.8%
All Sectors	376,416	360,309	4.5%	41,594	39,322	5.8%	11.05	10.91	1.3%

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

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

Net Generation and Consumption of Fuels for January through August															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	772,367	820,326	-5.8%	580,974	613,429	185,981	201,527	217	214	5,194	5,156	0	0
Petroleum Liquids	Utility Scale Facilities	11,780	7,649	54.0%	6,997	5,599	4,305	1,700	108	61	369	289	0	0
Petroleum Coke	Utility Scale Facilities	6,012	6,200	-3.0%	4,721	4,644	777	1,002	4	5	510	548	0	0
Natural Gas	Utility Scale Facilities	989,420	865,194	14.4%	488,231	418,831	433,569	379,602	5,601	5,394	62,019	61,366	0	0
Other Gas	Utility Scale Facilities	8,339	8,312	0.3%	148	101	2,633	2,618	0	0	5,557	5,593	0	0
Nuclear	Utility Scale Facilities	547,351	530,540	3.2%	287,244	280,538	260,107	250,002	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	208,360	220,041	-5.3%	191,193	201,719	16,065	17,167	179	151	923	1,004	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	290,008	251,485	15.3%	32,726	28,840	235,517	201,391	2,160	2,190	19,605	19,063	0	0
... Wind	Utility Scale Facilities	188,463	162,485	16.0%	24,909	22,838	163,375	139,502	108	90	71	55	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	47,815	36,551	30.8%	3,773	2,169	43,525	33,994	452	360	65	29	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	28,264	27,383	3.2%	2,375	2,171	7,001	6,851	54	50	18,833	18,311	0	0
... Other Biomass	Utility Scale Facilities	14,377	14,524	-1.0%	970	980	11,226	11,186	1,545	1,690	635	668	0	0
... Geothermal	Utility Scale Facilities	11,089	10,541	5.2%	698	683	10,391	9,858	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,944	-4,291	-8.1%	-3,199	-3,587	-745	-705	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	8,579	8,811	-2.6%	388	363	4,393	4,376	689	724	3,108	3,348	0	0
All Energy Sources	Utility Scale Facilities	2,838,271	2,714,265	4.6%	1,589,424	1,550,478	1,142,602	1,058,680	8,959	8,740	97,286	96,367	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	20,766	16,742	24.0%	0	0	0	0	6,865	5,349	1,831	1,647	12,070	9,746
Estimated Total Solar Photovoltaic	All Facilities	65,953	50,942	29.5%	3,732	2,163	40,938	31,648	7,318	5,708	1,896	1,676	12,070	9,746
Estimated Total Solar	All Facilities	68,580	53,293	28.7%	3,773	2,169	43,525	33,994	7,318	5,708	1,896	1,676	12,070	9,746
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	426,128	449,843	-5.3%	318,113	331,299	106,083	116,602	63	62	1,870	1,880	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	20,390	13,394	52.2%	12,698	10,117	7,111	2,857	201	118	379	302	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,267	2,400	-5.6%	1,886	1,886	253	367	1	2	126	146	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	7,337,025	6,345,538	15.6%	3,747,386	3,191,652	3,190,321	2,758,024	34,997	33,521	364,320	362,341	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	9,305	9,795	-5.0%	1,597	1,902	784	761	336	343	6,588	6,789	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,931	1,121	72.2%	76	43	223	120	263	150	1,369	808	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	544	660	-17.6%	9	6	61	78	5	9	469	567	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,082,559	1,040,110	4.1%	28,023	25,866	221,886	207,062	332,496	337,166	500,154	470,016	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	435,433	459,638	-5.3%	319,709	333,201	106,867	117,363	399	405	8,457	8,670	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	22,321	14,515	53.8%	12,774	10,160	7,334	2,976	465	268	1,748	1,110	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,811	3,060	-8.1%	1,895	1,892	314	445	6	11	595	712	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	8,419,583	7,385,648	14.0%	3,775,410	3,217,518	3,412,207	2,965,087	367,493	370,687	864,474	832,357	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through August									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	Percentage Change
Residential	1,003,065	936,733	7.1%	129,654	120,816	7.3%	12.93	12.90	0.2%
Commercial	927,001	906,850	2.2%	99,073	96,686	2.5%	10.69	10.66	0.3%
Industrial	636,899	658,245	-3.2%	44,333	45,379	-2.3%	6.96	6.89	1.0%
Transportation	5,172	5,017	3.1%	501	488	2.6%	9.68	9.73	-0.5%
All Sectors	2,572,137	2,506,845	2.6%	273,561	263,369	3.9%	10.64	10.51	1.2%

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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.
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Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
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Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2018 and 2017

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal (1000 tons)	56,419	62,125	39.28	39.16	265	304	389,557	432,426	39.36	39.63
Petroleum Liquids (1000 barrels)	902	1,162	W	W	133	197	13,832	10,394	84.13	68.63
Petroleum Coke (1000 tons)	298	284	W	W	6	7	2,041	2,175	W	W
Natural Gas (1000 Mcf)	1,101,369	1,041,412	3.38	3.23	573	797	6,740,218	6,439,776	3.55	3.52

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal (1000 tons)	42,128	46,092	40.46	40.79	182	205	288,758	314,892	40.32	41.18
Petroleum Liquids (1000 barrels)	769	855	91.87	67.72	87	126	8,670	7,824	84.32	68.11
Petroleum Coke (1000 tons)	288	273	80.03	59.17	5	6	2,025	2,145	73.17	58.33
Natural Gas (1000 Mcf)	522,123	502,748	3.45	3.53	292	428	3,278,080	3,121,575	3.69	3.74

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal (1000 tons)	13,648	15,249	35.05	33.52	65	76	95,344	111,316	35.75	34.49
Petroleum Liquids (1000 barrels)	111	289	W	W	36	62	4,920	2,395	83.88	70.30
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	513,161	474,207	3.32	2.84	234	318	2,963,840	2,791,084	3.42	3.24

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal (1000 tons)	0	0	--	W	0	1	6	15	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	764	778	W	W	3	3	5,898	4,883	W	W

Industrial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal (1000 tons)	643	784	52.09	W	18	22	5,449	6,203	W	W
Petroleum Liquids (1000 barrels)	22	18	W	W	10	9	242	174	81.74	69.08
Petroleum Coke (1000 tons)	10	11	W	W	1	1	16	29	W	W
Natural Gas (1000 Mcf)	65,321	63,679	W	W	44	48	492,400	522,234	W	W

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

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2018 and 2017

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal	1,075,669	1,187,341	2.06	2.05	265	304	7,451,841	8,279,947	2.06	2.07
Petroleum Liquids	5,477	7,022	W	W	133	197	83,475	62,342	13.91	11.44
Petroleum Coke	8,443	7,972	W	W	6	7	57,658	61,018	W	W
Natural Gas	1,136,707	1,076,917	3.27	3.13	573	797	6,958,599	6,655,710	3.44	3.40
Fossil Fuels	2,226,295	2,279,253	W	W	732	985	14,551,573	15,059,017	W	W

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal	806,053	890,849	2.11	2.11	182	205	5,537,467	6,094,358	2.10	2.13
Petroleum Liquids	4,686	5,210	15.08	11.12	87	126	52,694	47,180	13.87	11.30
Petroleum Coke	8,183	7,676	2.82	2.11	5	6	57,238	60,197	2.59	2.08
Natural Gas	538,581	519,749	3.34	3.42	292	428	3,382,529	3,225,087	3.57	3.62
Fossil Fuels	1,357,502	1,423,484	2.65	2.62	400	553	9,029,928	9,426,822	2.72	2.68

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal	256,223	279,845	1.87	1.83	65	76	1,800,965	2,054,941	1.89	1.87
Petroleum Liquids	656	1,702	W	W	36	62	29,271	14,074	14.04	11.96
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	530,050	490,671	3.21	2.74	234	318	3,063,104	2,886,706	3.31	3.14
Fossil Fuels	786,928	772,218	W	W	282	378	4,893,340	4,955,720	2.78	2.57

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal	0	4	--	W	0	1	130	339	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	786	809	W	W	3	3	6,076	5,046	W	W
Fossil Fuels	786	813	W	W	3	3	6,206	5,385	W	W

Industrial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
Coal	13,393	16,644	2.50	W	18	22	113,279	130,310	W	W
Petroleum Liquids	135	110	W	W	10	9	1,510	1,088	13.11	11.08
Petroleum Coke	260	296	W	W	1	1	420	821	W	W
Natural Gas	67,289	65,688	W	W	44	48	506,890	538,871	W	W
Fossil Fuels	81,078	82,738	W	W	47	51	622,099	671,090	W	W

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

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,239,149	13,008	11,197	1,378,307	12,807	805,694	267,812	36,054	305,579	-6,686	13,754	4,076,675	18,812	51,483	54,866
2017	1,205,835	12,414	8,976	1,296,415	12,469	804,950	300,333	53,286	332,991	-6,495	13,094	4,034,268	23,990	74,007	77,276
Year 2016															
January	113,459	1,396	966	110,044	1,195	72,525	25,615	1,486	25,193	-312	1,153	352,719	980	2,380	2,465
February	92,705	1,299	910	98,552	1,062	65,638	24,139	2,242	26,496	-399	1,041	313,685	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,090	304,390	1,525	3,885	4,143
April	72,113	833	1,006	98,876	1,132	62,732	25,878	2,880	26,787	-452	1,109	292,894	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,195	316,784	1,879	4,916	5,304
June	116,034	972	1,005	131,395	1,043	67,175	23,237	3,473	22,763	-497	1,180	367,781	1,928	4,990	5,401
July	136,316	1,273	1,049	151,554	1,077	70,349	21,455	3,945	24,428	-784	1,225	411,887	2,000	5,474	5,945
August	135,635	1,258	1,078	154,760	1,064	71,526	19,570	3,969	20,496	-902	1,248	409,701	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,168	351,484	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,108	312,945	1,552	4,495	4,743
November	86,940	1,070	799	93,942	1,013	65,179	18,808	2,767	26,052	-607	1,098	297,062	1,257	3,840	4,024
December	118,747	1,166	869	96,364	1,037	71,662	22,528	2,424	30,159	-753	1,139	345,343	1,167	3,500	3,591
Year 2017															
January	115,333	1,121	944	95,473	1,046	73,121	26,788	2,030	26,676	-435	1,093	343,190	1,246	3,186	3,276
February	86,822	874	723	82,694	977	63,560	23,643	2,555	27,317	-508	995	289,652	1,384	3,804	3,939
March	89,365	950	699	95,022	1,060	65,093	29,272	4,245	31,688	-521	1,062	317,935	1,972	5,921	6,218
April	81,335	846	431	88,418	1,001	56,743	29,390	4,696	30,854	-439	1,049	294,325	2,195	6,580	6,891
May	92,777	971	847	98,067	1,055	61,313	32,384	5,663	28,782	-423	1,083	322,518	2,423	7,684	8,086
June	107,508	1,001	901	117,317	992	67,011	30,222	6,175	26,258	-568	1,099	357,916	2,487	8,197	8,662
July	127,697	916	889	146,994	1,048	71,314	26,491	5,753	22,832	-759	1,211	404,386	2,555	7,996	8,308
August	119,488	970	765	141,209	1,134	72,384	21,851	5,434	20,527	-638	1,220	384,342	2,480	7,573	7,914
Sept	98,203	925	712	118,112	1,060	68,098	19,067	5,115	24,142	-606	1,033	335,861	2,225	6,991	7,340
October	89,775	956	572	106,852	999	65,995	18,284	4,821	31,558	-463	1,027	320,376	1,990	6,497	6,811
November	90,986	903	755	94,883	1,001	66,618	20,565	3,409	30,596	-478	1,077	310,315	1,561	4,839	4,970
December	106,546	1,982	737	111,373	1,096	73,700	22,377	3,389	31,762	-656	1,146	353,452	1,472	4,739	4,861
Year 2018															
January	118,939	5,289	952	110,064	996	74,649	25,594	3,413	33,934	-547	1,115	374,398	1,614	4,899	5,027
February	81,922	780	738	96,013	991	64,790	25,532	4,120	30,569	-315	1,001	306,142	1,761	5,689	5,880
March	80,613	811	648	104,939	1,063	67,033	25,950	5,211	34,124	-490	1,114	321,015	2,426	7,379	7,636
April	73,383	854	691	99,447	944	59,133	27,488	6,257	32,931	-377	1,039	301,791	2,736	8,679	8,993
May	85,311	1,022	415	116,110	1,008	67,320	30,433	7,079	30,288	-390	1,075	339,671	3,009	9,658	10,088
June	101,508	1,062	765	130,827	1,010	69,688	27,953	7,811	31,085	-433	1,111	372,386	3,058	10,352	10,869
July	115,472	970	924	167,066	1,102	72,456	24,013	6,943	22,964	-644	1,117	412,383	3,144	9,707	10,087
August	115,218	991	878	164,954	1,224	72,282	21,398	6,982	26,298	-747	1,007	410,485	3,018	9,591	10,000
Year to Date															
2016	820,130	8,889	7,914	959,501	8,823	542,671	192,770	24,037	199,915	-4,050	9,242	2,769,841	13,101	34,641	37,138
2017	820,326	7,649	6,200	865,194	8,312	530,540	220,041	36,551	214,933	-4,291	8,811	2,714,265	16,742	50,942	53,293
2018	772,367	11,780	6,012	989,420	8,339	547,351	208,360	47,815	242,194	-3,944	8,579	2,838,271	20,766	65,953	68,580
Rolling 12 Months Ending in August															
2017	1,239,345	11,768	9,482	1,284,000	12,296	793,562	295,083	48,568	320,597	-6,927	13,324	4,021,098	22,453	67,783	71,022
2018	1,157,876	16,545	8,788	1,420,641	12,496	821,761	288,653	64,549	360,251	-6,148	12,861	4,158,275	28,014	89,019	92,563

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals													
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,993	32,670	3,384	40,947	11,218	7,265	3,331	15,826	267,812	609,445	18,812	51,483	54,866
2017	254,303	50,017	3,269	41,152	11,543	6,951	3,115	15,927	300,333	686,610	23,990	74,007	77,276
Year 2016													
January	18,466	1,400	86	3,600	915	603	277	1,332	25,615	52,294	980	2,380	2,465
February	20,138	2,000	241	3,406	886	537	285	1,243	24,139	52,877	1,145	3,145	3,386
March	21,939	2,360	257	3,403	949	579	281	1,315	27,390	58,474	1,525	3,885	4,143
April	20,799	2,606	273	2,967	932	593	287	1,209	25,878	55,544	1,703	4,309	4,583
May	18,848	3,037	388	3,187	980	649	280	1,342	25,486	54,197	1,879	4,916	5,304
June	16,303	3,062	412	3,414	934	614	247	1,251	23,237	49,473	1,928	4,990	5,401
July	17,618	3,473	471	3,658	943	635	262	1,311	21,455	49,828	2,000	5,474	5,945
August	13,589	3,602	368	3,722	942	634	285	1,324	19,570	44,035	1,942	5,543	5,911
Sept	16,404	3,272	363	3,407	895	589	272	1,327	16,368	42,897	1,735	5,007	5,370
October	20,335	2,942	249	3,176	839	589	265	1,353	17,339	47,088	1,552	4,495	4,743
November	19,406	2,583	184	3,391	993	602	296	1,364	18,808	47,627	1,257	3,840	4,024
December	23,146	2,333	91	3,615	1,011	640	293	1,454	22,528	55,111	1,167	3,500	3,591
Year 2017													
January	19,840	1,940	90	3,505	1,050	617	280	1,383	26,788	55,494	1,246	3,186	3,276
February	21,198	2,419	136	3,186	910	528	256	1,239	23,643	53,515	1,384	3,804	3,939
March	24,993	3,949	297	3,457	1,007	557	290	1,385	29,272	65,205	1,972	5,921	6,218
April	24,613	4,385	310	3,149	956	544	254	1,337	29,390	64,939	2,195	6,580	6,891
May	22,450	5,261	402	3,189	989	604	267	1,283	32,384	66,829	2,423	7,684	8,086
June	19,809	5,710	465	3,439	956	588	251	1,214	30,222	62,655	2,487	8,197	8,662
July	15,960	5,442	311	3,703	948	604	261	1,355	26,491	55,077	2,555	7,996	8,308
August	13,621	5,093	341	3,753	945	617	246	1,345	21,851	47,812	2,480	7,573	7,914
Sept	17,855	4,766	349	3,294	914	558	224	1,297	19,067	48,325	2,225	6,991	7,340
October	25,306	4,507	314	3,306	921	558	238	1,229	18,284	54,663	1,990	6,497	6,811
November	24,082	3,278	131	3,430	951	571	272	1,289	20,565	54,569	1,561	4,839	4,970
December	24,575	3,267	123	3,738	995	606	276	1,571	22,377	57,528	1,472	4,739	4,861
Year 2018													
January	26,885	3,285	128	3,779	989	590	275	1,416	25,594	62,941	1,614	4,899	5,027
February	24,077	3,929	191	3,398	941	561	259	1,333	25,532	60,221	1,761	5,689	5,880
March	27,287	4,953	258	3,553	999	599	272	1,414	25,950	65,284	2,426	7,379	7,636
April	26,803	5,943	314	3,107	941	570	256	1,255	27,488	66,677	2,736	8,679	8,993
May	23,542	6,649	430	3,564	932	574	238	1,438	30,433	67,799	3,009	9,658	10,088
June	24,340	7,294	517	3,588	927	630	230	1,370	27,953	66,849	3,058	10,352	10,869
July	16,022	6,562	380	3,709	945	640	212	1,436	24,013	53,920	3,144	9,707	10,087
August	19,507	6,572	409	3,565	951	632	214	1,429	21,398	54,678	3,018	9,591	10,000
Year to Date													
2016	147,702	21,540	2,497	27,357	7,480	4,844	2,204	10,328	192,770	416,722	13,101	34,641	37,138
2017	162,485	34,200	2,352	27,383	7,762	4,658	2,105	10,541	220,041	471,526	16,742	50,942	53,293
2018	188,463	45,188	2,627	28,264	7,624	4,796	1,957	11,089	208,360	498,369	20,766	65,953	68,580
Rolling 12 Months Ending in August													
2017	241,775	45,329	3,239	40,973	11,500	7,079	3,231	16,038	295,083	664,249	22,453	67,783	71,022
2018	280,281	61,005	3,544	42,032	11,405	7,090	2,968	16,476	288,653	713,453	28,014	89,019	92,563

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	922,399	9,069	8,881	654,780	154	424,400	247,787	1,995	40,666	-5,629	421	2,304,923
2017	893,639	8,567	6,711	623,835	149	424,485	275,677	3,348	42,763	-5,448	551	2,274,277
Year 2016												
January	84,012	965	832	52,818	3	37,974	23,579	95	3,303	-230	34	203,384
February	69,852	830	734	48,009	4	34,281	22,015	135	3,624	-332	30	179,182
March	56,982	623	724	49,949	5	34,445	25,125	151	3,696	-291	42	171,452
April	53,542	602	858	46,425	7	34,036	23,742	169	3,887	-367	34	162,936
May	62,093	695	763	52,908	10	36,531	23,508	187	3,098	-257	33	179,569
June	86,611	710	793	63,858	16	37,000	21,716	188	3,034	-409	40	213,557
July	100,856	926	833	71,913	21	37,919	20,030	197	2,837	-678	34	234,890
August	100,156	905	856	72,293	13	37,927	18,241	207	2,432	-787	33	232,277
Sept	83,223	644	807	58,392	23	33,919	15,283	190	3,215	-626	35	195,105
October	72,950	658	418	47,710	7	30,016	16,149	182	3,479	-471	36	171,134
November	64,830	700	596	44,171	22	33,082	17,599	154	3,635	-522	35	164,301
December	87,293	811	667	46,333	22	37,268	20,799	139	4,425	-657	36	197,136
Year 2017												
January	85,985	810	743	45,702	13	38,425	24,717	136	3,161	-346	44	199,391
February	64,844	632	540	39,534	17	33,911	21,619	178	3,541	-418	39	164,437
March	65,992	755	535	46,397	16	34,693	26,768	260	4,241	-455	43	179,245
April	58,913	631	260	43,444	18	30,217	26,683	288	4,020	-368	46	164,153
May	69,099	710	654	48,524	5	31,728	29,577	328	3,467	-350	38	183,781
June	81,297	714	698	56,453	10	35,022	27,897	338	3,298	-474	45	205,299
July	96,782	648	673	71,107	19	37,874	24,333	324	2,639	-646	53	233,807
August	90,517	698	540	67,671	2	38,667	20,124	318	2,304	-531	55	220,364
Sept	71,859	661	523	56,393	0	35,496	17,749	304	2,946	-522	49	185,458
October	66,498	721	405	50,140	9	35,038	16,950	291	4,543	-388	44	174,251
November	64,983	633	583	45,117	15	34,541	18,529	279	4,235	-394	45	168,569
December	76,870	953	556	53,353	24	38,871	20,729	304	4,369	-557	50	195,521
Year 2018												
January	88,647	2,358	770	55,200	26	39,366	23,664	296	4,419	-475	42	214,312
February	61,029	609	575	46,838	17	33,941	23,504	345	3,931	-226	40	170,605
March	58,552	585	491	50,590	16	35,262	23,793	465	4,181	-408	49	173,577
April	55,319	619	477	48,319	28	30,580	25,150	515	3,871	-295	42	164,625
May	64,011	730	336	58,568	11	34,479	28,051	506	3,348	-309	47	189,778
June	77,886	747	670	65,943	13	36,437	25,826	582	3,510	-339	52	211,327
July	88,147	648	716	82,577	15	38,293	21,964	528	2,723	-522	57	235,146
August	87,383	700	686	80,195	24	38,885	19,240	536	2,973	-626	58	230,053
Year to Date												
2016	614,104	6,256	6,393	458,174	81	290,114	177,957	1,330	25,911	-3,353	280	1,577,247
2017	613,429	5,599	4,644	418,831	101	280,538	201,719	2,169	26,671	-3,587	363	1,550,478
2018	580,974	6,997	4,721	488,231	148	287,244	191,193	3,773	28,953	-3,199	388	1,589,424
Rolling 12 Months Ending in August												
2017	921,725	8,412	7,132	615,438	174	414,823	271,549	2,834	41,425	-5,864	504	2,278,154
2018	861,185	9,965	6,789	693,234	196	431,191	265,151	4,951	45,046	-5,060	576	2,313,223

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,941	1,613,156
2017	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,375	258,962	-1,047	6,527	1,603,173
Year 2016												
January	28,612	379	42	48,969	341	34,551	1,884	1,363	19,168	-82	589	135,816
February	22,057	416	99	42,840	295	31,357	1,991	2,065	20,345	-66	540	121,939
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	549	119,810
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	554	117,612
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	610	124,310
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	595	140,888
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	610	162,745
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	617	163,051
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	557	143,155
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	549	128,939
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	560	119,981
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	613	134,908
Year 2017												
January	28,587	254	139	41,183	336	34,695	1,918	1,876	20,878	-90	583	130,360
February	21,314	197	123	35,510	291	29,650	1,894	2,348	21,360	-90	514	113,110
March	22,696	147	81	40,458	342	30,400	2,358	3,941	24,871	-66	523	125,751
April	21,829	174	113	37,135	282	26,526	2,538	4,358	24,347	-71	507	117,739
May	23,043	220	136	41,497	345	29,585	2,628	5,277	22,777	-73	548	125,981
June	25,528	249	132	52,380	313	31,988	2,185	5,772	20,315	-93	549	139,318
July	30,237	227	138	66,734	350	33,440	2,030	5,366	17,417	-114	572	156,397
August	28,293	231	140	64,705	358	33,717	1,617	5,056	15,432	-107	580	150,023
Sept	25,701	223	136	53,827	346	32,602	1,228	4,755	18,701	-84	508	137,942
October	22,616	191	110	48,686	318	30,957	1,221	4,480	24,488	-75	518	133,509
November	25,364	215	111	41,702	337	32,077	1,891	3,093	23,772	-84	539	129,016
December	28,990	951	122	49,104	359	34,828	1,526	3,054	24,605	-99	586	144,026
Year 2018												
January	29,504	2,805	116	46,057	303	35,283	1,796	3,084	26,761	-72	580	146,217
February	20,198	122	106	41,330	309	30,849	1,893	3,734	24,131	-89	549	123,131
March	21,359	177	100	46,384	330	31,770	2,011	4,693	27,267	-82	570	134,579
April	17,451	191	154	43,138	306	28,553	2,194	5,677	26,540	-82	535	124,658
May	20,649	244	23	49,392	350	32,841	2,230	6,498	24,224	-81	533	136,903
June	22,986	263	NM	56,381	317	33,251	1,990	7,137	24,929	-95	590	147,768
July	26,660	261	135	75,390	348	34,163	1,917	6,337	17,483	-123	594	163,165
August	27,173	243	124	75,497	369	33,398	2,035	6,365	20,658	-121	442	166,182
Year to Date												
2016	199,508	2,239	907	435,261	2,581	252,557	13,749	22,318	153,087	-698	4,662	1,086,171
2017	201,527	1,700	1,002	379,602	2,618	250,002	17,167	33,994	167,398	-705	4,376	1,058,680
2018	185,981	4,305	777	433,569	2,633	260,107	16,065	43,525	191,992	-745	4,393	1,142,602
Rolling 12 Months Ending in August												
2017	309,282	2,821	1,496	568,941	3,795	378,739	21,957	45,178	247,864	-1,064	6,655	1,585,664
2018	288,652	5,886	NM	626,886	3,993	390,570	21,932	58,906	283,557	-1,087	6,545	1,687,096

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
2017	329	103	8	8,042	0	0	240	521	2,729	0	1,088	13,060	7,685	8,206	8,206
Year 2016															
January	43	8	1	605	0	0	21	26	230	0	89	1,022	346	373	373
February	45	8	1	570	0	0	18	39	210	0	75	967	398	437	437
March	46	3	1	579	0	0	22	44	225	0	90	1,011	520	564	564
April	24	6	0	551	0	0	15	46	221	0	97	961	566	612	612
May	20	6	0	607	0	0	12	48	230	0	96	1,019	616	663	663
June	23	5	0	692	0	0	13	53	220	0	83	1,089	623	676	676
July	24	8	1	831	0	0	15	55	234	0	96	1,263	640	696	696
August	26	7	0	859	0	0	19	58	234	0	95	1,298	620	677	677
Sept	29	4	0	700	0	0	23	48	223	0	87	1,114	556	605	605
October	27	5	0	617	0	0	21	42	218	0	90	1,021	493	536	536
November	35	8	0	521	0	0	17	36	224	0	85	927	393	428	428
December	42	8	1	598	0	0	21	33	228	0	85	1,015	387	420	420
Year 2017															
January	41	13	1	681	0	0	27	17	232	0	84	1,098	420	438	438
February	32	8	1	597	0	0	15	27	206	0	78	963	458	485	485
March	33	9	1	652	0	0	15	42	233	0	86	1,071	629	671	671
April	20	5	0	574	0	0	23	46	222	0	87	976	699	745	745
May	19	7	0	619	0	0	24	53	245	0	101	1,069	770	823	823
June	21	5	0	718	0	0	15	61	225	0	89	1,135	777	838	838
July	25	7	0	786	0	0	14	58	237	0	99	1,227	808	866	866
August	23	8	1	766	0	0	17	55	231	0	100	1,202	788	843	843
Sept	27	6	1	701	0	0	14	52	216	0	90	1,107	709	761	761
October	24	6	1	661	0	0	29	47	217	0	94	1,079	632	679	679
November	29	7	1	611	0	0	23	34	228	0	88	1,020	502	536	536
December	35	23	1	674	0	0	23	29	238	0	91	1,114	492	521	521
Year 2018															
January	44	NM	1	674	0	0	23	28	223	0	85	1,122	546	575	575
February	31	8	1	637	0	0	23	36	199	0	73	1,007	599	634	634
March	26	8	1	652	0	0	NM	45	221	0	84	1,061	813	858	858
April	22	9	0	635	0	0	25	57	207	0	82	1,038	901	958	958
May	19	9	0	644	0	0	NM	66	213	0	91	1,068	986	1,052	1,052
June	21	8	0	706	0	0	NM	81	215	0	92	1,147	999	1,080	1,080
July	25	12	0	822	0	0	NM	68	213	0	91	1,250	1,031	1,100	1,100
August	30	10	0	831	0	0	NM	71	217	0	91	1,267	990	1,060	1,060
Year to Date															
2016	250	51	4	5,295	0	0	134	370	1,804	0	721	8,629	4,328	4,698	4,698
2017	214	61	5	5,394	0	0	151	360	1,830	0	724	8,740	5,349	5,708	5,708
2018	217	108	4	5,601	0	0	179	452	1,708	0	689	8,959	6,865	7,318	7,318
Rolling 12 Months Ending in August															
2017	347	86	6	7,829	0	0	234	519	2,723	0	1,071	12,817	7,178	7,698	7,698
2018	332	NM	7	8,248	0	0	NM	614	2,607	0	1,053	13,279	9,201	9,815	9,815

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2008-August 2018
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small Scale Facilities	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
2017	7,669	463	776	91,619	8,343	0	1,383	42	28,536	0	4,928	143,758	2,364	2,406	2,406
Year 2016															
January	793	45	91	7,653	851	0	130	1	2,492	0	442	12,497	113	115	115
February	750	45	76	7,133	763	0	115	2	2,317	0	396	11,597	124	126	126
March	781	39	63	7,462	837	0	142	2	2,381	0	409	12,117	171	173	173
April	670	37	50	7,067	815	0	128	2	2,192	0	424	11,386	186	189	189
May	740	51	87	7,341	740	0	119	3	2,350	0	456	11,886	206	208	208
June	814	44	81	7,661	692	0	99	3	2,391	0	463	12,248	206	209	209
July	873	48	79	8,165	731	0	104	3	2,501	0	486	12,989	214	217	217
August	847	37	81	8,291	732	0	92	3	2,489	0	503	13,075	209	212	212
Sept	762	41	60	7,706	674	0	65	2	2,312	0	489	12,111	190	192	192
October	693	41	75	7,527	679	0	88	2	2,312	0	433	11,851	174	176	176
November	630	37	87	7,514	662	0	69	2	2,433	0	418	11,852	139	140	140
December	750	40	78	7,678	720	0	117	1	2,493	0	405	12,283	128	129	129
Year 2017															
January	720	43	61	7,907	696	0	126	1	2,405	0	382	12,341	123	124	124
February	632	38	60	7,052	668	0	115	2	2,209	0	364	11,142	137	139	139
March	644	38	82	7,515	702	0	131	3	2,342	0	411	11,868	197	200	200
April	573	35	58	7,266	701	0	146	4	2,265	0	410	11,457	213	217	217
May	616	34	57	7,428	704	0	155	4	2,293	0	396	11,686	239	242	242
June	662	33	71	7,765	668	0	124	5	2,420	0	416	12,164	241	246	246
July	653	34	78	8,367	679	0	115	5	2,540	0	486	12,956	252	257	257
August	655	33	83	8,067	774	0	93	5	2,560	0	484	12,754	246	251	251
Sept	615	34	52	7,191	715	0	75	4	2,281	0	386	11,354	223	227	227
October	637	38	56	7,366	673	0	84	4	2,310	0	370	11,537	201	204	204
November	610	47	61	7,453	649	0	121	3	2,361	0	405	11,710	156	158	158
December	651	55	58	8,242	713	0	99	3	2,550	0	419	12,790	138	141	141
Year 2018															
January	744	81	66	8,134	667	0	112	4	2,531	0	408	12,747	145	150	150
February	664	41	55	7,208	665	0	112	5	2,309	0	339	11,399	154	159	159
March	676	41	56	7,313	717	0	122	7	2,455	0	410	11,799	219	226	226
April	591	35	59	7,355	610	0	119	8	2,313	0	379	11,470	239	247	247
May	632	40	55	7,506	647	0	125	9	2,503	0	405	11,922	265	274	274
June	615	43	77	7,797	680	0	114	11	2,432	0	376	12,144	266	277	277
July	639	50	73	8,277	740	0	113	9	2,546	0	376	12,823	275	284	284
August	633	37	68	8,430	831	0	106	11	2,451	0	416	12,982	267	278	278
Year to Date															
2016	6,267	343	610	60,771	6,161	0	930	19	19,114	0	3,578	97,794	1,430	1,449	1,449
2017	5,156	289	548	61,366	5,593	0	1,004	29	19,034	0	3,348	96,367	1,647	1,676	1,676
2018	5,194	369	510	62,019	5,557	0	923	65	19,540	0	3,108	97,286	1,831	1,896	1,896
Rolling 12 Months Ending in August															
2017	7,991	448	848	91,792	8,327	0	1,343	37	28,584	0	5,094	144,464	2,277	2,314	2,314
2018	7,707	544	737	92,272	8,307	0	1,302	78	29,041	0	4,688	144,677	2,548	2,626	2,626

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

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

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,942
Year 2016	
January	520
February	622
March	835
April	951
May	1,058
June	1,099
July	1,146
August	1,113
Sept	989
October	884
November	726
December	653
Year 2017	
January	703
February	789
March	1,147
April	1,283
May	1,415
June	1,469
July	1,495
August	1,446
Sept	1,293
October	1,157
November	904
December	841
Year 2018	
January	922
February	1,008
March	1,394
April	1,596
May	1,757
June	1,793
July	1,838
August	1,761
Year to Date	
2016	7,343
2017	9,746
2018	12,070
Rolling 12 Months Ending in August	
2017	12,998
2018	16,265

See Glossary for definitions. Values for 2017 and prior years are final. Values for 2018 are preliminary.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	11,037	10,014	10.2%	254	177	10,374	9,467	123	129	285	241
Connecticut	3,838	3,241	18.4%	7	8	3,733	3,144	38	41	60	48
Maine	1,031	850	21.3%	0	0	835	681	13	20	184	150
Massachusetts	3,338	3,335	0.1%	71	46	3,182	3,207	60	56	25	25
New Hampshire	1,833	1,659	10.5%	95	54	1,729	1,596	6	6	3	3
Rhode Island	802	780	2.9%	0	0	782	758	6	6	13	15
Vermont	194	150	29.6%	80	69	113	81	0	0	0	0
Middle Atlantic	42,114	38,765	8.6%	3,573	3,192	37,899	34,954	230	229	412	390
New Jersey	7,781	7,212	7.9%	16	15	7,635	7,070	67	63	63	65
New York	13,602	12,119	12.2%	3,547	3,172	9,838	8,751	130	133	87	62
Pennsylvania	20,731	19,434	6.7%	10	5	20,425	19,132	33	33	262	263
East North Central	57,453	51,298	12.0%	23,311	21,951	32,957	28,299	198	177	988	871
Illinois	17,601	15,600	12.8%	723	519	16,545	14,799	58	36	276	245
Indiana	10,344	9,043	14.4%	7,581	7,324	2,352	1,362	27	26	384	331
Michigan	11,216	9,856	13.8%	8,175	7,081	2,839	2,583	73	77	129	114
Ohio	11,507	10,838	6.2%	1,386	2,258	10,037	8,504	28	28	57	48
Wisconsin	6,784	5,962	13.8%	5,447	4,769	1,184	1,050	12	10	142	132
West North Central	32,037	29,442	8.8%	27,343	25,897	4,256	3,153	60	54	378	338
Iowa	5,530	4,895	13.0%	4,428	3,962	869	729	19	19	214	185
Kansas	4,900	4,194	16.8%	3,597	3,324	1,295	866	NM	1	7	NM
Minnesota	5,573	4,796	16.2%	4,534	4,088	912	588	20	16	107	104
Missouri	8,356	8,040	3.9%	7,905	7,801	431	220	18	16	3	3
Nebraska	3,305	3,382	-2.3%	2,996	3,090	278	260	2	1	30	30
North Dakota	3,489	3,348	4.2%	3,106	2,942	366	394	0	0	17	12
South Dakota	882	787	12.2%	778	690	105	96	NM	0	0	0
South Atlantic	82,922	78,088	6.2%	67,419	65,291	13,669	10,979	163	127	1,670	1,690
Delaware	750	790	-5.1%	8	3	627	663	NM	0	114	123
District of Columbia	5	3	79.7%	0	0	0	0	5	3	0	0
Florida	24,504	24,302	0.8%	22,730	22,754	1,336	1,076	6	6	432	467
Georgia	12,741	12,775	-0.3%	10,429	10,730	1,851	1,583	NM	1	461	461
Maryland	4,222	3,035	39.1%	437	27	3,679	2,934	92	50	14	24
North Carolina	12,981	12,815	1.3%	11,167	11,479	1,628	1,139	26	32	159	165
South Carolina	10,833	8,549	26.7%	9,718	8,093	944	304	0	0	170	152
Virginia	9,645	8,971	7.5%	7,309	6,950	2,081	1,776	32	35	224	209
West Virginia	7,241	6,848	5.7%	5,622	5,256	1,524	1,503	0	0	96	89
East South Central	36,311	34,645	4.8%	30,692	29,564	4,804	4,259	19	15	796	807
Alabama	13,988	13,334	4.9%	9,691	9,262	3,909	3,674	0	0	387	398
Kentucky	7,988	7,328	9.0%	7,880	7,248	63	28	0	0	45	53
Mississippi	6,823	6,006	13.6%	5,853	5,307	802	536	0	0	168	163
Tennessee	7,512	7,978	-5.8%	7,268	7,747	30	21	19	15	195	194
West South Central	74,385	67,679	9.9%	28,115	24,753	39,381	36,170	105	91	6,784	6,664
Arkansas	6,872	6,382	7.7%	6,179	5,683	539	559	NM	4	150	136
Louisiana	9,988	9,080	10.0%	6,523	5,443	828	985	16	12	2,622	2,640
Oklahoma	8,875	6,748	31.5%	4,864	3,975	3,927	2,697	0	0	83	77
Texas	48,650	45,469	7.0%	10,549	9,652	34,087	31,930	85	76	3,929	3,811
Mountain	37,302	36,716	1.6%	29,369	29,058	7,615	7,312	48	55	270	292
Arizona	12,350	11,439	8.0%	10,092	9,437	2,246	1,986	12	16	0	0
Colorado	5,265	4,778	10.2%	4,086	3,873	1,169	895	5	3	6	6
Idaho	1,338	1,673	-20.0%	832	1,121	476	495	4	4	25	52
Montana	1,884	2,773	-32.1%	751	1,062	1,131	1,709	0	0	2	2
Nevada	4,517	4,205	7.4%	3,330	3,119	1,124	1,033	14	13	49	40
New Mexico	3,214	3,402	-5.5%	2,309	2,737	885	653	10	11	9	0
Utah	4,317	3,836	12.6%	3,894	3,416	370	320	3	7	50	93
Wyoming	4,417	4,611	-4.2%	4,075	4,293	213	219	0	0	129	98
Pacific Contiguous	35,430	36,311	-2.4%	18,933	19,566	14,874	15,057	255	260	1,367	1,428
California	20,793	22,619	-8.1%	7,929	9,426	11,419	11,692	246	253	1,199	1,247
Oregon	5,136	4,751	8.1%	3,344	3,126	1,734	1,564	8	6	51	55
Washington	9,500	8,942	6.2%	7,661	7,014	1,721	1,801	2	1	117	126
Pacific Noncontiguous	1,495	1,383	8.1%	1,044	914	352	372	66	64	33	32
Alaska	640	518	23.5%	579	464	23	20	NM	25	11	10
Hawaii	855	864	-1.1%	465	451	329	352	39	39	22	22
U.S. Total	410,485	384,342	6.8%	230,053	220,364	166,182	150,023	1,267	1,202	12,982	12,754

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	72,434	70,910	2.1%	2,194	1,765	67,337	66,274	849	872	2,054	1,999
Connecticut	26,433	23,051	14.7%	57	67	25,712	22,307	254	272	410	406
Maine	7,838	7,938	-1.3%	0	0	6,380	6,496	113	141	1,345	1,301
Massachusetts	19,571	22,228	-12.0%	462	378	18,527	21,295	396	373	185	182
New Hampshire	12,345	11,413	8.2%	1,039	657	11,242	10,691	43	44	21	21
Rhode Island	4,700	4,740	-0.8%	0	3	4,569	4,608	40	40	91	90
Vermont	1,546	1,540	0.4%	636	660	908	877	2	2	0	0
Middle Atlantic	286,153	278,849	2.6%	24,666	23,416	256,950	250,883	1,617	1,597	2,922	2,953
New Jersey	51,889	51,533	0.7%	85	95	50,866	50,490	481	460	458	488
New York	89,947	85,112	5.7%	24,486	23,239	63,972	60,402	878	880	611	590
Pennsylvania	144,317	142,204	1.5%	95	81	142,112	139,991	257	257	1,852	1,875
East North Central	411,717	385,193	6.9%	165,548	160,030	237,563	217,260	1,343	1,298	7,263	6,605
Illinois	127,684	121,773	4.9%	3,997	3,655	121,341	115,998	346	294	2,001	1,826
Indiana	75,021	65,067	15.3%	56,647	51,681	15,576	10,807	183	176	2,616	2,403
Michigan	81,062	76,792	5.6%	56,079	56,141	23,390	19,228	556	556	1,037	867
Ohio	82,083	80,159	2.4%	13,103	16,038	68,347	63,495	176	187	458	438
Wisconsin	45,867	41,402	10.8%	35,723	32,514	8,910	7,732	82	85	1,152	1,071
West North Central	241,326	226,783	6.4%	196,744	187,906	41,180	35,798	422	404	2,980	2,676
Iowa	42,647	38,461	10.9%	32,485	28,911	8,530	8,105	148	137	1,484	1,308
Kansas	35,642	33,464	6.5%	23,650	22,597	11,933	10,830	11	9	48	28
Minnesota	42,665	38,378	11.2%	33,052	30,445	8,438	6,822	133	124	1,042	986
Missouri	58,840	59,027	-0.3%	55,054	56,958	3,637	1,918	118	119	30	32
Nebraska	25,080	23,589	6.3%	21,632	20,370	3,180	2,977	12	13	256	229
North Dakota	28,220	26,441	6.7%	23,885	22,465	4,215	3,883	0	0	120	93
South Dakota	8,231	7,422	10.9%	6,985	6,160	1,247	1,262	NM	0	0	0
South Atlantic	556,549	538,254	3.4%	453,944	449,644	88,861	74,960	1,119	986	12,625	12,664
Delaware	4,198	5,416	-22.5%	25	11	3,503	4,571	5	4	664	830
District of Columbia	57	47	22.3%	0	0	0	0	57	47	0	0
Florida	163,777	161,775	1.2%	151,886	150,949	8,429	7,276	48	50	3,414	3,500
Georgia	86,761	86,072	0.8%	71,901	72,372	11,304	10,341	7	4	3,549	3,355
Maryland	29,608	22,340	32.5%	2,557	33	26,329	21,761	548	357	174	190
North Carolina	91,131	87,405	4.3%	79,275	78,008	10,424	7,946	189	232	1,243	1,220
South Carolina	68,474	62,599	9.4%	63,544	59,348	3,587	2,046	2	1	1,341	1,204
Virginia	64,918	62,124	4.5%	49,243	49,692	13,777	10,542	264	292	1,635	1,598
West Virginia	47,624	50,476	-5.6%	35,512	39,231	11,508	10,478	0	0	605	767
East South Central	250,616	238,704	5.0%	212,474	205,324	31,868	27,199	144	134	6,129	6,046
Alabama	98,613	94,343	4.5%	70,248	68,992	25,358	22,423	0	0	3,008	2,927
Kentucky	52,714	50,763	3.8%	51,840	50,144	496	211	0	0	378	408
Mississippi	43,699	41,501	5.3%	36,606	35,780	5,802	4,444	6	3	1,284	1,274
Tennessee	55,590	52,097	6.7%	53,780	50,407	212	121	138	131	1,459	1,437
West South Central	499,869	458,616	9.0%	174,559	154,082	274,277	253,076	640	642	50,392	50,816
Arkansas	45,538	39,703	14.7%	39,922	35,812	4,398	2,781	28	30	1,190	1,081
Louisiana	68,635	64,950	5.7%	42,365	37,171	6,492	6,944	107	100	19,670	20,735
Oklahoma	60,526	49,033	23.4%	29,278	25,268	30,634	23,245	0	0	614	520
Texas	325,170	304,929	6.6%	62,994	55,831	232,754	220,105	505	512	28,918	28,480
Mountain	245,607	241,297	1.8%	189,583	190,352	53,540	48,499	385	383	2,100	2,063
Arizona	74,287	70,778	5.0%	63,975	61,504	10,199	9,161	113	112	0	0
Colorado	37,483	36,682	2.2%	28,111	28,466	9,297	8,147	26	20	49	49
Idaho	12,492	11,580	7.9%	8,148	7,818	3,933	3,349	33	34	378	379
Montana	18,068	18,441	-2.0%	8,508	8,157	9,543	10,266	0	0	17	18
Nevada	27,150	25,621	6.0%	18,734	18,217	8,065	7,128	95	83	256	193
New Mexico	20,634	23,016	-10.4%	12,816	17,221	7,732	5,714	71	80	15	1
Utah	25,266	24,434	3.4%	22,146	21,140	2,681	2,710	47	54	393	530
Wyoming	30,226	30,746	-1.7%	27,144	27,830	2,090	2,024	0	0	992	892
Pacific Contiguous	262,948	265,015	-0.8%	162,190	170,761	88,276	82,007	1,924	1,969	10,559	10,278
California	132,771	141,659	-6.3%	52,009	64,370	69,743	66,453	1,848	1,906	9,171	8,930
Oregon	45,206	42,444	6.5%	34,448	33,812	10,271	8,188	55	46	432	398
Washington	84,972	80,912	5.0%	75,733	72,579	8,262	7,366	21	17	955	950
Pacific Noncontiguous	11,052	10,644	3.8%	7,522	7,198	2,750	2,724	517	454	263	268
Alaska	4,546	4,168	9.0%	4,047	3,735	173	151	255	204	70	78
Hawaii	6,506	6,475	0.5%	3,475	3,463	2,577	2,573	262	250	192	190
U.S. Total	2,838,271	2,714,265	4.6%	1,589,424	1,550,478	1,142,602	1,058,680	8,959	8,740	97,286	96,367

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	40	4	976.1%	32	0	8	3	0	0	NM	1
Connecticut	3	-1	-311.4%	0	0	3	-1	0	0	0	0
Maine	6	5	27.1%	0	0	5	4	0	0	NM	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	32	0	NM	32	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	4,468	4,245	5.3%	0	0	4,453	4,215	0	0	15	30
New Jersey	119	102	16.5%	0	0	119	102	0	0	0	0
New York	42	25	64.1%	0	0	42	13	0	0	0	12
Pennsylvania	4,308	4,118	4.6%	0	0	4,292	4,099	0	0	15	18
East North Central	26,334	25,121	4.8%	15,254	15,490	10,873	9,455	NM	5	198	171
Illinois	6,015	5,099	18.0%	410	379	5,444	4,586	NM	1	158	133
Indiana	7,097	6,971	1.8%	6,603	6,674	489	293	5	4	0	0
Michigan	4,393	3,649	20.4%	4,354	3,605	35	39	0	0	NM	4
Ohio	5,508	6,192	-11.1%	603	1,656	4,905	4,536	0	0	0	1
Wisconsin	3,321	3,210	3.5%	3,285	3,176	0	0	0	0	36	33
West North Central	18,397	18,582	-1.0%	18,159	18,386	0	0	8	7	230	189
Iowa	2,855	2,912	-2.0%	2,695	2,781	0	0	7	7	153	124
Kansas	2,079	2,136	-2.7%	2,079	2,136	0	0	0	0	0	0
Minnesota	2,064	2,173	-5.0%	2,028	2,145	0	0	0	0	36	28
Missouri	6,348	6,421	-1.1%	6,348	6,421	0	0	0	0	0	0
Nebraska	2,157	2,306	-6.4%	2,127	2,276	0	0	0	0	30	30
North Dakota	2,638	2,451	7.6%	2,626	2,444	0	0	0	0	NM	7
South Dakota	256	183	40.0%	256	183	0	0	0	0	0	0
South Atlantic	20,292	21,960	-7.6%	18,120	19,614	2,123	2,279	2	3	47	63
Delaware	48	22	116.0%	0	0	48	22	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,225	3,473	-7.1%	3,219	3,411	0	48	0	0	6	14
Georgia	3,195	3,505	-8.8%	3,179	3,490	0	0	0	0	16	14
Maryland	776	858	-9.5%	0	0	774	851	0	0	2	7
North Carolina	3,162	4,352	-27.3%	3,141	4,330	8	8	2	3	11	12
South Carolina	1,969	1,965	0.2%	1,968	1,963	0	0	0	0	0	2
Virginia	1,126	1,295	-13.1%	1,075	1,235	39	46	0	0	12	14
West Virginia	6,792	6,490	4.7%	5,537	5,185	1,255	1,305	0	0	0	0
East South Central	11,810	12,372	-4.5%	11,456	12,142	292	165	0	0	61	65
Alabama	3,273	3,221	1.6%	3,270	3,218	0	0	0	0	3	2
Kentucky	6,059	5,634	7.6%	6,059	5,634	0	0	0	0	0	0
Mississippi	496	426	16.4%	203	261	292	165	0	0	0	0
Tennessee	1,982	3,092	-35.9%	1,923	3,029	0	0	0	0	59	62
West South Central	17,493	19,411	-9.9%	10,161	9,914	7,317	9,470	0	0	15	27
Arkansas	3,075	3,010	2.2%	2,687	2,563	386	443	0	0	3	4
Louisiana	1,353	1,066	26.9%	1,000	509	353	557	0	0	0	0
Oklahoma	1,681	1,927	-12.8%	1,494	1,727	175	177	0	0	12	24
Texas	11,384	13,408	-15.1%	4,981	5,115	6,404	8,293	0	0	0	0
Mountain	15,151	16,365	-7.4%	13,974	14,614	1,139	1,671	0	0	38	80
Arizona	3,092	3,156	-2.0%	3,092	3,156	0	0	0	0	0	0
Colorado	2,626	2,602	0.9%	2,626	2,601	0	0	0	0	0	1
Idaho	NM	3	NM	0	0	0	0	0	0	NM	3
Montana	938	1,503	-37.6%	21	26	917	1,478	0	0	0	0
Nevada	407	303	34.6%	285	208	122	95	0	0	0	0
New Mexico	1,381	2,109	-34.5%	1,381	2,109	0	0	0	0	0	0
Utah	2,753	2,547	8.1%	2,714	2,468	39	38	0	0	0	42
Wyoming	3,951	4,142	-4.6%	3,854	4,047	61	61	0	0	36	34
Pacific Contiguous	1,043	1,248	-16.4%	192	332	824	888	0	0	27	28
California	25	25	2.4%	0	0	0	0	0	0	25	25
Oregon	192	332	-42.1%	192	332	0	0	0	0	0	0
Washington	826	891	-7.3%	0	0	824	888	0	0	2	NM
Pacific Noncontiguous	189	180	4.9%	NM	25	143	147	NM	9	0	0
Alaska	66	51	29.2%	NM	25	20	17	NM	9	0	0
Hawaii	124	130	-4.6%	0	0	124	130	0	0	0	0
U.S. Total	115,218	119,488	-3.6%	87,383	90,517	27,173	28,293	30	23	633	655

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	829	1,438	-42.4%	529	164	285	1,266	0	0	15	8
Connecticut	247	93	165.4%	0	0	247	93	0	0	0	0
Maine	54	45	20.3%	0	0	38	37	0	0	15	8
Massachusetts	0	1,136	-100.0%	0	0	0	1,136	0	0	0	0
New Hampshire	529	164	221.7%	529	164	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	32,815	33,996	-3.5%	0	0	32,682	33,699	0	0	133	298
New Jersey	842	810	3.9%	0	0	842	810	0	0	0	0
New York	565	543	4.0%	0	0	554	377	0	0	11	166
Pennsylvania	31,408	32,643	-3.8%	0	0	31,286	32,512	0	0	122	131
East North Central	183,973	188,317	-2.3%	110,364	113,986	71,965	72,931	56	36	1,589	1,363
Illinois	41,170	38,557	6.8%	2,701	2,830	37,220	34,669	26	18	1,224	1,039
Indiana	51,601	48,565	6.3%	48,915	46,878	2,656	1,668	30	18	0	0
Michigan	29,482	29,886	-1.4%	29,117	29,540	300	312	0	0	65	34
Ohio	39,446	47,700	-17.3%	7,653	11,413	31,789	36,281	0	0	5	6
Wisconsin	22,274	23,608	-5.7%	21,979	23,325	0	0	0	0	295	283
West North Central	126,889	125,202	1.3%	125,030	123,500	0	1	55	74	1,805	1,627
Iowa	18,393	18,017	2.1%	17,267	16,959	0	0	49	57	1,078	1,002
Kansas	13,809	13,084	5.5%	13,809	13,084	0	0	0	0	0	0
Minnesota	14,892	14,643	1.7%	14,498	14,308	0	0	1	1	393	335
Missouri	43,791	46,331	-5.5%	43,785	46,315	0	1	5	16	0	0
Nebraska	15,379	14,331	7.3%	15,123	14,102	0	0	0	0	256	229
North Dakota	18,799	17,409	8.0%	18,721	17,347	0	0	0	0	78	62
South Dakota	1,826	1,386	31.8%	1,826	1,386	0	0	0	0	0	0
South Atlantic	135,382	148,878	-9.1%	117,000	133,507	17,877	14,814	27	36	477	521
Delaware	250	222	12.3%	0	0	250	222	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	20,066	26,556	-24.4%	19,993	26,385	7	75	0	0	66	97
Georgia	20,271	22,612	-10.4%	20,142	22,500	0	0	0	0	129	112
Maryland	7,690	5,492	40.0%	0	0	7,647	5,442	0	0	43	50
North Carolina	22,849	25,218	-9.4%	22,662	25,002	68	73	22	28	97	115
South Carolina	13,002	13,235	-1.8%	12,989	13,219	0	0	0	0	12	15
Virginia	6,982	8,392	-16.8%	6,436	7,924	411	327	5	8	130	133
West Virginia	44,273	47,151	-6.1%	34,779	38,476	9,494	8,675	0	0	0	0
East South Central	81,142	84,468	-3.9%	78,654	82,264	1,995	1,707	0	0	494	497
Alabama	23,144	22,001	5.2%	23,115	21,982	0	0	0	0	29	19
Kentucky	39,141	40,115	-2.4%	39,141	40,115	0	0	0	0	0	0
Mississippi	3,475	3,265	6.4%	1,480	1,558	1,995	1,707	0	0	0	0
Tennessee	15,383	19,086	-19.4%	14,918	18,608	0	0	0	0	465	478
West South Central	110,735	126,799	-12.7%	61,712	62,401	48,842	64,166	0	0	181	232
Arkansas	19,018	17,447	9.0%	15,723	15,567	3,266	1,849	0	0	30	30
Louisiana	8,048	8,525	-5.6%	5,218	5,003	2,830	3,522	0	0	0	0
Oklahoma	10,587	11,467	-7.7%	9,376	10,219	1,059	1,047	0	0	151	201
Texas	73,081	89,359	-18.2%	31,395	31,612	41,686	57,747	0	0	0	0
Mountain	96,292	106,432	-9.5%	86,991	96,279	9,008	9,748	0	0	293	405
Arizona	20,386	20,598	-1.0%	20,386	20,598	0	0	0	0	0	0
Colorado	17,178	19,763	-13.1%	17,170	19,757	0	0	0	0	7	6
Idaho	17	15	18.1%	0	0	0	0	0	0	17	15
Montana	7,748	8,540	-9.3%	139	193	7,607	8,345	0	0	2	2
Nevada	1,417	1,440	-1.6%	759	780	658	660	0	0	0	0
New Mexico	7,696	13,001	-40.8%	7,696	13,001	0	0	0	0	0	0
Utah	16,218	16,602	-2.3%	15,936	16,197	282	271	0	0	0	134
Wyoming	25,632	26,473	-3.2%	24,905	25,753	461	472	0	0	266	248
Pacific Contiguous	3,015	3,545	-14.9%	503	1,158	2,304	2,181	0	0	208	206
California	194	187	3.8%	0	0	0	0	0	0	194	187
Oregon	503	1,158	-56.5%	503	1,158	0	0	0	0	0	0
Washington	2,318	2,200	5.3%	0	0	2,304	2,181	0	0	14	19
Pacific Noncontiguous	1,295	1,251	3.5%	192	169	1,023	1,014	80	68	0	0
Alaska	409	356	14.9%	192	169	138	119	80	68	0	0
Hawaii	886	895	-1.0%	0	0	886	895	0	0	0	0
U.S. Total	772,367	820,326	-5.8%	580,974	613,429	185,981	201,527	217	214	5,194	5,156

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	43	23	89.4%	7	3	33	18	NM	1	NM	1
Connecticut	15	7	117.5%	1	0	15	7	NM	0	0	0
Maine	9	1	723.4%	0	0	8	0	0	0	NM	1
Massachusetts	13	12	4.8%	NM	1	9	10	NM	1	0	0
New Hampshire	4	2	81.3%	4	2	NM	0	1	0	0	0
Rhode Island	NM	0	--	0	0	NM	0	0	0	0	0
Vermont	NM	0	NM	NM	0	0	0	0	0	0	0
Middle Atlantic	70	36	94.0%	10	2	57	32	NM	1	2	2
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	51	14	251.7%	10	2	38	11	NM	0	1	1
Pennsylvania	18	21	-15.6%	0	0	17	20	0	0	NM	0
East North Central	46	47	-2.2%	25	33	18	13	1	0	3	1
Illinois	6	3	84.8%	NM	1	5	2	0	0	0	0
Indiana	14	8	80.1%	11	6	0	0	0	0	2	1
Michigan	11	18	-41.2%	10	18	0	0	0	0	NM	0
Ohio	14	15	-2.7%	NM	5	13	10	0	0	0	0
Wisconsin	2	4	-55.4%	1	4	0	0	0	0	NM	0
West North Central	24	14	70.4%	24	14	NM	0	0	0	0	0
Iowa	7	4	74.1%	7	4	NM	0	0	0	0	0
Kansas	5	2	154.3%	5	2	0	0	0	0	0	0
Minnesota	3	2	41.2%	3	2	NM	0	0	0	0	0
Missouri	6	3	98.0%	6	3	0	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	3	2	16.8%	3	2	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	NM	0	0	0
South Atlantic	122	141	-13.0%	88	112	19	17	6	5	10	7
Delaware	NM	0	NM	0	0	NM	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	46	57	-19.9%	44	55	NM	0	0	0	NM	2
Georgia	11	7	52.1%	5	3	NM	0	0	1	5	3
Maryland	8	12	-28.3%	1	0	7	12	NM	0	0	0
North Carolina	18	10	73.1%	16	9	NM	0	NM	0	NM	1
South Carolina	7	7	-4.3%	6	7	0	0	NM	0	1	1
Virginia	20	35	-43.7%	9	27	5	3	5	4	NM	0
West Virginia	10	12	-14.8%	6	11	4	1	0	0	0	0
East South Central	24	22	9.1%	23	22	NM	0	0	0	1	1
Alabama	3	3	12.8%	2	2	NM	0	0	0	NM	0
Kentucky	5	5	-12.8%	5	5	0	0	0	0	0	0
Mississippi	4	1	300.3%	4	1	0	0	0	0	0	0
Tennessee	13	13	-3.9%	12	13	0	0	0	0	0	0
West South Central	8	12	-36.3%	5	8	2	4	0	0	0	1
Arkansas	3	1	121.5%	1	0	2	1	0	0	0	0
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	2	1	234.5%	2	0	0	0	0	0	0	0
Texas	3	9	-65.4%	2	5	NM	3	0	0	0	0
Mountain	16	14	15.8%	13	13	3	1	0	0	0	0
Arizona	5	3	77.3%	5	3	0	0	0	0	0	0
Colorado	1	1	-33.6%	1	1	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	3	0	465.5%	NM	0	3	0	0	0	0	0
Nevada	2	2	34.9%	2	1	0	0	0	0	0	0
New Mexico	2	3	-47.4%	2	3	0	0	0	0	0	0
Utah	2	2	-13.3%	2	2	0	0	0	0	0	0
Wyoming	2	2	-24.4%	2	2	0	0	0	0	0	0
Pacific Contiguous	7	5	53.8%	4	4	2	0	NM	0	NM	1
California	4	3	15.4%	3	3	0	0	NM	0	0	0
Oregon	NM	1	NM	NM	1	0	0	NM	0	0	0
Washington	NM	1	NM	NM	0	1	0	0	0	NM	1
Pacific Noncontiguous	629	655	-4.0%	500	488	109	147	0	0	19	21
Alaska	68	70	-3.3%	63	66	0	0	0	0	5	5
Hawaii	561	585	-4.1%	437	422	109	147	0	0	14	16
U.S. Total	991	970	2.2%	700	698	243	231	10	8	37	33

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Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	1,225	196	525.9%	188	30	980	136	33	23	NM	7
Connecticut	351	36	882.2%	NM	2	344	32	NM	1	1	0
Maine	192	28	575.4%	0	0	169	21	1	1	NM	6
Massachusetts	451	102	342.3%	84	10	348	82	NM	9	1	1
New Hampshire	165	22	641.8%	95	13	59	1	11	9	0	0
Rhode Island	NM	5	NM	0	3	NM	0	1	2	0	0
Vermont	NM	2	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	2,117	324	552.6%	553	57	1,513	233	NM	7	29	28
New Jersey	250	30	734.6%	1	0	243	30	5	0	1	0
New York	1,412	150	840.1%	550	57	824	64	NM	3	25	26
Pennsylvania	454	144	215.0%	2	0	446	139	3	3	NM	2
East North Central	430	332	29.3%	217	201	191	118	4	3	17	10
Illinois	47	37	26.6%	NM	6	39	31	0	0	0	0
Indiana	89	76	17.4%	75	68	0	0	0	0	13	7
Michigan	84	67	25.9%	81	64	0	0	3	2	1	2
Ohio	190	133	43.4%	36	44	151	87	1	0	2	1
Wisconsin	18	19	-3.9%	16	19	1	0	0	0	NM	0
West North Central	245	179	36.7%	231	176	NM	1	1	1	1	1
Iowa	74	66	12.6%	74	66	1	0	0	0	0	0
Kansas	NM	30	NM	NM	30	0	0	0	0	0	0
Minnesota	31	19	58.4%	17	16	NM	1	1	1	1	1
Missouri	66	31	113.2%	66	31	0	0	0	0	0	0
Nebraska	6	4	45.3%	6	4	0	0	0	0	0	0
North Dakota	22	27	-19.2%	22	27	0	0	0	0	0	0
South Dakota	3	2	38.7%	3	2	0	0	NM	0	0	0
South Atlantic	2,415	1,133	113.1%	1,645	913	634	145	42	22	94	53
Delaware	146	8	NM	6	0	140	8	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	367	380	-3.4%	337	368	12	2	0	0	NM	10
Georgia	167	77	116.9%	NM	45	46	3	4	2	52	27
Maryland	235	67	250.7%	4	0	226	64	NM	1	3	1
North Carolina	431	146	195.6%	395	131	NM	8	NM	1	NM	6
South Carolina	238	70	240.6%	192	63	39	1	NM	0	7	6
Virginia	718	301	138.7%	547	222	135	58	33	18	NM	3
West Virginia	113	85	33.4%	100	84	14	1	0	0	0	0
East South Central	204	163	25.0%	167	153	25	2	0	0	NM	8
Alabama	56	25	126.4%	24	17	25	2	0	0	NM	5
Kentucky	55	54	1.5%	55	54	0	0	0	0	0	0
Mississippi	NM	7	NM	NM	6	0	0	0	0	4	2
Tennessee	78	77	0.1%	76	76	0	0	0	0	1	1
West South Central	119	107	11.5%	NM	57	20	47	0	0	6	3
Arkansas	NM	33	NM	NM	11	5	21	0	0	2	1
Louisiana	NM	12	NM	NM	12	0	0	0	0	0	0
Oklahoma	12	10	30.5%	12	9	0	0	0	0	1	1
Texas	46	52	-11.7%	28	26	NM	25	0	0	3	1
Mountain	123	147	-16.3%	107	133	16	14	0	0	0	0
Arizona	36	38	-5.6%	36	38	0	0	0	0	0	0
Colorado	8	5	68.5%	8	5	0	0	0	0	0	0
Idaho	0	0	10.8%	0	0	0	0	0	0	0	0
Montana	14	10	32.9%	NM	0	14	10	0	0	0	0
Nevada	7	7	-1.7%	5	4	2	3	0	0	0	0
New Mexico	11	28	-60.5%	11	28	0	0	0	0	0	0
Utah	23	27	-17.2%	22	26	1	1	0	0	0	0
Wyoming	25	32	-20.5%	25	32	0	0	0	0	0	0
Pacific Contiguous	73	53	37.9%	27	30	11	10	NM	1	34	12
California	56	31	78.8%	23	22	5	2	0	0	28	6
Oregon	NM	6	NM	NM	5	0	0	NM	0	0	0
Washington	14	16	-13.7%	NM	2	6	8	0	0	7	6
Pacific Noncontiguous	4,829	5,014	-3.7%	3,768	3,849	903	994	5	5	153	166
Alaska	521	614	-15.2%	490	578	0	0	3	3	28	33
Hawaii	4,309	4,400	-2.1%	3,279	3,271	903	994	2	2	125	133
U.S. Total	11,780	7,649	54.0%	6,997	5,599	4,305	1,700	108	61	369	289

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	19	19	-0.8%	0	0	0	0	0	0	19	19
New Jersey	8	6	18.6%	0	0	0	0	0	0	8	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	12	NM	0	0	0	0	0	0	NM	12
East North Central	188	211	-10.9%	86	94	86	100	0	0	NM	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	89	100	-10.9%	74	83	0	0	0	0	NM	17
Ohio	87	100	-13.0%	0	0	86	100	0	0	1	0
Wisconsin	12	11	9.1%	12	11	0	0	0	0	0	0
West North Central	0	1	-100.0%	0	0	0	0	0	1	0	0
Iowa	0	1	-100.0%	0	0	0	0	0	1	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	214	109	96.6%	192	96	0	0	0	0	NM	13
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	192	96	100.1%	192	96	0	0	0	0	0	0
Georgia	NM	13	NM	0	0	0	0	0	0	NM	13
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	420	384	9.1%	408	350	0	0	0	0	11	34
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	413	376	9.8%	408	350	0	0	0	0	5	26
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	8	NM	0	0	0	0	0	0	NM	8
Mountain	38	41	-5.8%	0	0	38	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	38	41	-5.8%	0	0	38	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	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	878	765	14.9%	686	540	124	140	0	1	68	83

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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 August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	107	118	-9.3%	0	0	0	0	0	0	107	118
New Jersey	37	49	-23.8%	0	0	0	0	0	0	37	49
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	70	70	1.0%	0	0	0	0	0	0	70	70
East North Central	1,348	1,443	-6.6%	763	635	514	713	0	0	71	94
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	756	679	11.4%	693	585	0	0	0	0	64	94
Ohio	521	713	-26.9%	0	0	514	713	0	0	7	0
Wisconsin	70	51	39.3%	70	51	0	0	0	0	0	0
West North Central	40	28	44.6%	0	0	0	0	4	5	36	23
Iowa	40	28	44.6%	0	0	0	0	4	5	36	23
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,252	666	88.1%	1,104	574	0	0	0	0	147	91
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	1,104	574	92.3%	1,104	574	0	0	0	0	0	0
Georgia	147	91	61.2%	0	0	0	0	0	0	147	91
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	427	-100.0%	0	427	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	427	-100.0%	0	427	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,002	3,230	-7.1%	2,854	3,008	0	0	0	0	148	222
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,950	3,163	-6.7%	2,854	3,008	0	0	0	0	96	156
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	52	66	-21.8%	0	0	0	0	0	0	52	66
Mountain	263	289	-8.9%	0	0	263	289	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	263	289	-8.9%	0	0	263	289	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,012	6,200	-3.0%	4,721	4,644	777	1,002	4	5	510	548

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	6,359	5,585	13.9%	55	41	6,057	5,322	101	101	146	121
Connecticut	2,136	1,564	36.6%	3	6	2,035	1,469	38	41	60	48
Maine	313	247	26.5%	0	0	264	213	3	3	46	31
Massachusetts	2,564	2,538	1.0%	40	31	2,446	2,432	53	51	24	24
New Hampshire	579	481	20.2%	12	4	563	474	1	0	3	3
Rhode Island	768	753	1.9%	0	0	748	732	6	6	13	15
Vermont	0	0	-61.4%	0	0	0	0	0	0	0	0
Middle Atlantic	19,742	16,499	19.7%	1,493	1,074	17,877	15,087	121	123	251	214
New Jersey	4,522	3,814	18.6%	NM	21	4,439	3,738	22	21	37	33
New York	6,614	5,198	27.3%	1,468	1,053	4,991	4,022	88	92	67	31
Pennsylvania	8,606	7,487	14.9%	0	0	8,447	7,327	11	11	147	150
East North Central	13,874	9,716	42.8%	4,996	3,476	8,403	5,850	159	136	316	254
Illinois	2,167	1,475	46.9%	302	132	1,747	1,241	53	35	65	67
Indiana	2,557	1,579	62.0%	896	581	1,505	870	19	18	138	109
Michigan	2,965	2,431	22.0%	1,160	831	1,704	1,517	52	50	49	32
Ohio	4,051	2,711	49.5%	753	573	3,254	2,101	26	27	18	10
Wisconsin	2,132	1,521	40.2%	1,885	1,358	192	121	9	7	46	36
West North Central	3,788	2,128	78.0%	3,303	1,789	381	243	30	27	74	68
Iowa	903	621	45.4%	838	557	NM	0	8	8	57	56
Kansas	493	200	146.6%	486	197	0	0	0	0	7	NM
Minnesota	1,192	559	113.4%	1,002	444	174	100	10	9	7	5
Missouri	789	524	50.5%	568	369	207	143	12	10	3	3
Nebraska	176	106	65.4%	176	106	0	0	0	0	0	0
North Dakota	90	42	113.8%	89	41	0	0	0	0	1	1
South Dakota	144	75	92.1%	144	75	0	0	0	0	0	0
South Atlantic	39,357	34,059	15.6%	30,968	27,899	7,860	5,704	100	61	429	394
Delaware	657	732	-10.2%	7	2	566	633	0	0	84	96
District of Columbia	0	0	6.7%	0	0	0	0	0	0	0	0
Florida	17,687	17,225	2.7%	16,564	16,413	978	683	1	2	144	128
Georgia	5,651	5,448	3.7%	4,014	4,100	1,578	1,301	0	0	58	47
Maryland	1,718	653	163.0%	435	26	1,187	573	90	49	7	5
North Carolina	4,516	3,510	28.6%	3,729	2,999	765	495	8	9	14	8
South Carolina	3,554	1,620	119.4%	2,704	1,356	841	256	0	0	9	8
Virginia	5,390	4,691	14.9%	3,500	2,994	1,821	1,643	0	1	68	53
West Virginia	184	179	2.7%	14	9	124	121	0	0	46	49
East South Central	14,140	12,288	15.1%	9,517	8,040	4,389	4,026	19	15	216	208
Alabama	5,877	5,460	7.6%	1,917	1,720	3,852	3,639	0	0	109	101
Kentucky	1,443	1,197	20.5%	1,367	1,153	61	25	0	0	14	19
Mississippi	5,294	4,648	13.9%	4,778	4,249	476	360	0	0	40	39
Tennessee	1,527	983	55.3%	1,455	917	1	2	19	15	52	49
West South Central	39,988	34,962	14.4%	14,045	10,934	19,942	18,249	97	87	5,904	5,692
Arkansas	2,053	1,512	35.8%	1,902	1,382	117	107	NM	3	30	19
Louisiana	6,150	5,526	11.3%	3,618	3,134	389	320	16	12	2,127	2,060
Oklahoma	4,889	3,594	36.0%	3,079	1,973	1,764	1,596	0	0	45	26
Texas	26,897	24,330	10.5%	5,446	4,445	17,671	16,227	78	71	3,702	3,587
Mountain	12,826	10,877	17.9%	9,833	8,297	2,804	2,410	30	40	158	131
Arizona	5,078	4,152	22.3%	3,349	2,614	1,719	1,523	10	14	0	0
Colorado	1,665	1,432	16.3%	1,344	1,241	320	189	0	0	2	2
Idaho	402	419	-4.1%	215	228	176	177	3	3	NM	12
Montana	61	62	-2.4%	41	40	20	22	0	0	0	0
Nevada	3,139	2,997	4.7%	2,892	2,758	192	194	6	6	49	40
New Mexico	1,277	896	42.6%	887	587	371	298	9	11	9	0
Utah	1,113	850	30.9%	1,070	803	6	6	2	7	35	34
Wyoming	91	70	30.6%	36	26	0	0	0	0	55	44
Pacific Contiguous	14,492	14,819	-2.2%	5,603	5,852	7,784	7,814	175	176	930	978
California	10,714	11,046	-3.0%	3,448	3,720	6,179	6,190	168	172	918	964
Oregon	2,129	2,094	1.6%	1,065	1,098	1,053	987	5	3	NM	6
Washington	1,650	1,679	-1.7%	1,090	1,033	552	637	1	0	6	8
Pacific Noncontiguous	387	276	40.5%	381	270	0	0	0	0	6	5
Alaska	387	276	40.5%	381	270	0	0	0	0	6	5
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	164,954	141,209	16.8%	80,195	67,671	75,497	64,705	831	766	8,430	8,067

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	33,924	34,433	-1.5%	196	185	32,136	32,680	646	653	946	915
Connecticut	12,568	10,333	21.6%	27	41	11,881	9,616	251	271	409	405
Maine	1,533	1,849	-17.1%	0	0	1,264	1,605	20	20	249	224
Massachusetts	13,478	15,313	-12.0%	142	118	12,825	14,698	335	322	176	175
New Hampshire	1,978	2,444	-19.1%	27	25	1,925	2,391	5	7	21	21
Rhode Island	4,366	4,492	-2.8%	0	0	4,242	4,369	33	33	91	90
Vermont	1	1	2.4%	0	1	0	0	1	0	0	0
Middle Atlantic	109,899	105,821	3.9%	7,540	7,038	99,877	96,522	804	824	1,678	1,437
New Jersey	25,925	26,122	-0.8%	125	147	25,392	25,583	143	151	265	240
New York	33,889	32,478	4.3%	7,409	6,886	25,503	24,789	567	583	410	220
Pennsylvania	50,084	47,222	6.1%	6	4	48,982	46,150	94	90	1,003	977
East North Central	90,185	65,387	37.9%	31,683	22,250	55,115	40,178	1,035	996	2,352	1,963
Illinois	11,555	10,496	10.1%	1,213	762	9,568	8,974	312	271	462	489
Indiana	17,216	11,400	51.0%	7,120	4,250	8,990	6,235	125	130	981	785
Michigan	21,883	17,157	27.5%	7,258	5,617	13,816	10,894	385	370	424	276
Ohio	27,405	17,971	52.5%	5,192	4,380	21,908	13,309	166	177	139	106
Wisconsin	12,126	8,362	45.0%	10,901	7,241	833	766	46	48	347	306
West North Central	22,377	13,758	62.6%	19,194	11,790	2,458	1,391	216	181	508	395
Iowa	5,583	2,443	128.5%	5,166	2,141	NM	0	68	53	348	250
Kansas	2,983	1,427	109.0%	2,938	1,400	0	0	0	0	45	27
Minnesota	6,820	4,876	39.9%	5,761	4,182	908	543	70	68	80	84
Missouri	4,897	3,597	36.1%	3,244	2,659	1,549	848	75	60	28	30
Nebraska	888	474	87.4%	885	473	0	0	3	1	0	0
North Dakota	482	473	1.9%	476	469	0	0	0	0	7	4
South Dakota	724	467	55.0%	724	467	0	0	0	0	0	0
South Atlantic	242,878	220,774	10.0%	196,656	181,541	42,702	35,816	625	444	2,896	2,973
Delaware	3,548	4,921	-27.9%	14	7	3,041	4,280	0	0	493	634
District of Columbia	19	16	17.8%	0	0	0	0	19	16	0	0
Florida	114,582	108,607	5.5%	108,137	103,258	5,398	4,373	14	17	1,033	959
Georgia	36,894	35,551	3.8%	27,193	26,722	9,281	8,423	0	0	420	407
Maryland	8,945	4,146	115.8%	2,546	26	5,811	3,715	526	346	61	58
North Carolina	29,326	25,500	15.0%	24,967	21,876	4,206	3,504	58	59	95	60
South Carolina	14,654	11,218	30.6%	11,776	9,445	2,794	1,692	0	0	84	81
Virginia	34,037	29,997	13.5%	21,898	20,112	11,643	9,435	8	5	489	444
West Virginia	874	818	6.9%	126	95	528	393	0	0	220	330
East South Central	93,472	80,760	15.7%	62,729	53,921	28,968	25,121	140	133	1,635	1,586
Alabama	39,580	35,277	12.2%	13,838	12,269	24,917	22,215	0	0	824	794
Kentucky	10,018	6,965	43.8%	9,411	6,612	479	195	0	0	128	158
Mississippi	35,620	31,481	13.1%	31,752	28,483	3,560	2,703	6	3	302	291
Tennessee	8,254	7,037	17.3%	7,727	6,557	11	8	134	130	381	343
West South Central	249,965	213,777	16.9%	84,318	67,167	121,235	101,999	576	589	43,837	44,023
Arkansas	14,129	11,919	18.5%	13,018	10,937	875	782	25	25	211	174
Louisiana	42,289	39,771	6.3%	23,114	20,012	2,987	2,747	107	100	16,081	16,913
Oklahoma	29,172	21,072	38.4%	17,567	12,826	11,365	8,095	0	0	240	151
Texas	164,375	141,016	16.6%	30,619	23,392	106,008	90,375	444	463	27,305	26,785
Mountain	68,426	58,941	16.1%	53,637	46,158	13,447	11,511	272	286	1,070	986
Arizona	22,919	19,564	17.1%	16,404	13,845	6,418	5,623	96	96	0	0
Colorado	11,441	8,519	34.3%	9,644	7,209	1,784	1,297	0	0	13	13
Idaho	1,938	1,669	16.1%	851	861	979	694	26	26	82	87
Montana	286	272	5.0%	231	203	54	68	0	0	1	2
Nevada	18,235	17,890	1.9%	16,539	16,259	1,399	1,401	43	39	254	191
New Mexico	7,625	6,320	20.7%	4,778	3,864	2,763	2,376	69	78	15	1
Utah	5,375	4,206	27.8%	5,014	3,814	49	52	38	47	274	293
Wyoming	607	501	21.2%	176	102	1	1	0	0	431	398
Pacific Contiguous	76,043	69,402	9.6%	30,068	26,688	37,631	34,385	1,288	1,285	7,056	7,044
California	58,205	55,773	4.4%	20,013	19,282	30,017	28,306	1,240	1,249	6,935	6,936
Oregon	10,582	7,822	35.3%	5,684	4,058	4,806	3,686	33	26	58	52
Washington	7,256	5,807	25.0%	4,371	3,348	2,808	2,392	14	10	63	56
Pacific Noncontiguous	2,252	2,141	5.2%	2,210	2,094	0	0	0	2	41	44
Alaska	2,252	2,141	5.2%	2,210	2,094	0	0	0	2	41	44
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	989,420	865,194	14.4%	488,231	418,831	433,569	379,602	5,601	5,394	62,019	61,366

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

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

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
2008	693,958	80,144	107,316	1,482	80	882,981
2009	743,901	76,141	99,588	1,332	18	920,979
2010	804,033	85,820	96,332	1,490	22	987,697
2011	828,554	85,392	97,578	2,125	40	1,013,689
2012	1,017,040	98,446	108,285	1,986	138	1,225,894
2013	947,172	91,272	83,746	2,328	317	1,124,836
2014	958,921	90,159	74,100	2,921	508	1,126,609
2015	1,130,617	108,655	89,796	3,760	654	1,333,482
2016	1,152,245	123,429	98,204	3,714	715	1,378,307
2017	1,094,951	111,733	84,492	4,370	869	1,296,415
Year 2016						
January	97,555	7,212	4,933	295	50	110,044
February	86,920	6,841	4,491	253	47	98,552
March	87,256	9,126	7,184	275	49	103,890
April	80,910	9,788	7,843	278	56	98,876
May	92,066	9,681	8,328	301	53	110,430
June	108,301	11,690	10,993	345	66	131,395
July	120,441	15,821	14,812	402	78	151,554
August	124,933	15,905	13,421	421	80	154,760
Sept	104,442	11,340	9,422	333	65	125,603
October	84,780	9,990	7,788	276	65	102,898
November	80,168	8,609	4,859	252	54	93,942
December	84,473	7,426	4,129	282	53	96,364
Year 2017						
January	83,813	7,936	3,325	330	71	95,473
February	72,179	7,254	2,933	269	60	82,694
March	80,222	9,299	5,134	303	65	95,022
April	74,282	8,063	5,716	304	53	88,418
May	82,415	8,806	6,458	319	69	98,067
June	97,888	9,970	9,002	380	76	117,317
July	121,419	12,091	12,908	481	94	146,994
August	118,900	11,160	10,591	464	93	141,209
Sept	98,230	10,132	9,276	398	76	118,112
October	88,194	9,451	8,749	382	75	106,852
November	81,319	8,336	4,804	359	65	94,883
December	96,089	9,235	5,595	382	71	111,373
Year 2018						
January	92,784	10,674	6,232	364	11	110,064
February	85,094	6,493	4,140	277	10	96,013
March	89,751	9,049	5,778	350	10	104,939
April	82,019	10,962	6,097	355	13	99,447
May	92,471	13,275	9,896	451	18	116,110
June	107,092	13,122	10,132	463	17	130,827
July	131,302	20,325	14,638	778	23	167,066
August	131,140	19,540	13,518	733	22	164,954

Values for 2017 and prior years are final. Values for 2018 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	65	52	25.2%	0	0	1	0	0	0	63	52
New Jersey	17	19	-9.9%	0	0	0	0	0	0	17	19
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	48	33	45.5%	0	0	1	0	0	0	46	33
East North Central	471	423	11.3%	24	2	198	204	0	0	249	218
Illinois	27	18	45.1%	0	0	0	0	0	0	27	18
Indiana	208	187	11.1%	0	0	0	0	0	0	208	187
Michigan	161	145	10.7%	24	2	137	144	0	0	0	0
Ohio	76	72	4.4%	0	0	61	60	0	0	15	12
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	4	7.3%	0	0	0	0	0	0	4	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	7.3%	0	0	0	0	0	0	4	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	33	30	10.7%	0	0	0	0	0	0	33	30
Delaware	29	26	14.2%	0	0	0	0	0	0	29	26
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	0	33.0%	0	0	0	0	0	0	1	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	4	-15.3%	0	0	0	0	0	0	3	4
East South Central	NM	2	NM	0	0	0	0	0	0	NM	2
Alabama	NM	0	NM	0	0	0	0	0	0	NM	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	2	-28.5%	0	0	0	0	0	0	1	2
West South Central	440	436	0.9%	0	0	120	117	0	0	320	319
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	222	232	-4.3%	0	0	0	0	0	0	222	232
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	218	204	6.8%	0	0	120	117	0	0	98	87
Mountain	32	25	31.3%	0	0	1	2	0	0	31	23
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	2	-19.3%	0	0	1	2	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	2	-76.3%	0	0	0	0	0	0	1	2
Wyoming	30	21	47.3%	0	0	0	0	0	0	30	21
Pacific Contiguous	172	159	8.0%	0	0	48	35	0	0	124	123
California	124	123	0.1%	0	0	0	0	0	0	124	123
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	48	35	35.4%	0	0	48	35	0	0	0	0
Pacific Noncontiguous	5	4	33.2%	0	0	0	0	0	0	5	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	4	33.2%	0	0	0	0	0	0	5	4
U.S. Total	1,224	1,134	7.9%	24	2	369	358	0	0	831	774

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	422	440	-4.1%	0	0	1	0	0	0	420	440
New Jersey	141	148	-4.6%	0	0	0	0	0	0	141	148
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	280	291	-3.8%	0	0	1	0	0	0	279	291
East North Central	3,137	3,130	0.2%	148	101	1,368	1,426	0	0	1,620	1,603
Illinois	132	121	8.8%	0	0	0	0	0	0	132	121
Indiana	1,387	1,361	1.9%	0	0	0	0	0	0	1,387	1,361
Michigan	1,150	1,120	2.7%	148	101	1,002	1,020	0	0	0	0
Ohio	467	527	-11.4%	0	0	366	406	0	0	101	121
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	33	25	31.5%	0	0	0	0	0	0	33	25
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	33	25	31.5%	0	0	0	0	0	0	33	25
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	182	214	-14.8%	0	0	0	0	0	0	182	214
Delaware	163	188	-13.1%	0	0	0	0	0	0	163	188
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4	4	-5.9%	0	0	0	0	0	0	4	4
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	15	22	-30.9%	0	0	0	0	0	0	15	22
East South Central	8	18	-56.2%	0	0	0	0	0	0	8	18
Alabama	1	8	-87.6%	0	0	0	0	0	0	1	8
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7	10	-31.7%	0	0	0	0	0	0	7	10
West South Central	2,960	3,074	-3.7%	0	0	968	953	0	0	1,992	2,121
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,275	1,449	-12.0%	0	0	0	0	0	0	1,275	1,449
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,686	1,624	3.8%	0	0	968	953	0	0	717	672
Mountain	247	246	0.6%	0	0	8	11	0	0	239	235
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	8	11	-27.9%	0	0	8	11	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	3	10	-67.4%	0	0	0	0	0	0	3	10
Wyoming	236	224	5.2%	0	0	0	0	0	0	236	224
Pacific Contiguous	1,311	1,133	15.7%	0	0	287	228	0	0	1,024	904
California	1,024	904	13.2%	0	0	0	0	0	0	1,024	904
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	287	228	25.9%	0	0	287	228	0	0	0	0
Pacific Noncontiguous	39	34	14.9%	0	0	0	0	0	0	39	34
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	39	34	14.9%	0	0	0	0	0	0	39	34
U.S. Total	8,339	8,312	0.3%	148	101	2,633	2,618	0	0	5,557	5,593

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	2,847	2,957	-3.7%	0	0	2,847	2,957	0	0	0	0
Connecticut	1,528	1,532	-0.2%	0	0	1,528	1,532	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	391	495	-20.9%	0	0	391	495	0	0	0	0
New Hampshire	928	930	-0.3%	0	0	928	930	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,576	14,081	-3.6%	0	0	13,576	14,081	0	0	0	0
New Jersey	2,849	3,045	-6.4%	0	0	2,849	3,045	0	0	0	0
New York	3,718	3,768	-1.3%	0	0	3,718	3,768	0	0	0	0
Pennsylvania	7,009	7,268	-3.6%	0	0	7,009	7,268	0	0	0	0
East North Central	14,062	14,018	0.3%	2,439	2,434	11,624	11,584	0	0	0	0
Illinois	8,579	8,517	0.7%	0	0	8,579	8,517	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,025	3,025	0.0%	2,439	2,434	586	591	0	0	0	0
Ohio	1,576	1,595	-1.2%	0	0	1,576	1,595	0	0	0	0
Wisconsin	883	880	0.3%	0	0	883	880	0	0	0	0
West North Central	4,009	4,087	-1.9%	3,597	3,647	412	440	0	0	0	0
Iowa	412	440	-6.4%	0	0	412	440	0	0	0	0
Kansas	888	894	-0.6%	888	894	0	0	0	0	0	0
Minnesota	1,246	1,275	-2.3%	1,246	1,275	0	0	0	0	0	0
Missouri	888	897	-1.1%	888	897	0	0	0	0	0	0
Nebraska	575	581	-1.1%	575	581	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,180	18,266	-0.5%	16,897	16,972	1,283	1,294	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,449	2,701	-9.3%	2,449	2,701	0	0	0	0	0	0
Georgia	3,041	3,036	0.2%	3,041	3,036	0	0	0	0	0	0
Maryland	1,283	1,294	-0.8%	0	0	1,283	1,294	0	0	0	0
North Carolina	3,846	3,811	0.9%	3,846	3,811	0	0	0	0	0	0
South Carolina	4,904	4,809	2.0%	4,904	4,809	0	0	0	0	0	0
Virginia	2,657	2,616	1.5%	2,657	2,616	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,747	7,648	1.3%	7,747	7,648	0	0	0	0	0	0
Alabama	3,700	3,674	0.7%	3,700	3,674	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	868	797	8.9%	868	797	0	0	0	0	0	0
Tennessee	3,180	3,177	0.1%	3,180	3,177	0	0	0	0	0	0
West South Central	6,468	6,173	4.8%	2,812	2,812	3,656	3,361	0	0	0	0
Arkansas	1,316	1,364	-3.5%	1,316	1,364	0	0	0	0	0	0
Louisiana	1,496	1,448	3.3%	1,496	1,448	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,656	3,361	8.8%	0	0	3,656	3,361	0	0	0	0
Mountain	2,923	2,935	-0.4%	2,923	2,935	0	0	0	0	0	0
Arizona	2,923	2,935	-0.4%	2,923	2,935	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	2,470	2,220	11.3%	2,470	2,220	0	0	0	0	0	0
California	1,621	1,683	-3.7%	1,621	1,683	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	849	537	58.1%	849	537	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	72,282	72,384	-0.1%	38,885	38,667	33,398	33,717	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	22,248	20,826	6.8%	0	0	22,248	20,826	0	0	0	0
Connecticut	12,149	11,408	6.5%	0	0	12,149	11,408	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,808	3,086	-9.0%	0	0	2,808	3,086	0	0	0	0
New Hampshire	7,290	6,332	15.1%	0	0	7,290	6,332	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	106,981	105,212	1.7%	0	0	106,981	105,212	0	0	0	0
New Jersey	22,832	22,809	0.1%	0	0	22,832	22,809	0	0	0	0
New York	28,546	27,125	5.2%	0	0	28,546	27,125	0	0	0	0
Pennsylvania	55,604	55,278	0.6%	0	0	55,604	55,278	0	0	0	0
East North Central	106,164	104,155	1.9%	16,789	18,533	89,375	85,621	0	0	0	0
Illinois	65,729	64,057	2.6%	0	0	65,729	64,057	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	21,403	22,253	-3.8%	16,789	18,533	4,614	3,719	0	0	0	0
Ohio	12,018	11,320	6.2%	0	0	12,018	11,320	0	0	0	0
Wisconsin	7,014	6,525	7.5%	0	0	7,014	6,525	0	0	0	0
West North Central	30,481	31,482	-3.2%	27,033	27,972	3,448	3,510	0	0	0	0
Iowa	3,448	3,510	-1.8%	0	0	3,448	3,510	0	0	0	0
Kansas	5,593	7,075	-20.9%	5,593	7,075	0	0	0	0	0	0
Minnesota	10,055	9,355	7.5%	10,055	9,355	0	0	0	0	0	0
Missouri	7,065	6,967	1.4%	7,065	6,967	0	0	0	0	0	0
Nebraska	4,319	4,575	-5.6%	4,319	4,575	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	137,924	135,853	1.5%	128,160	125,967	9,764	9,886	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	20,372	19,534	4.3%	20,372	19,534	0	0	0	0	0	0
Georgia	22,959	22,128	3.8%	22,959	22,128	0	0	0	0	0	0
Maryland	9,764	9,886	-1.2%	0	0	9,764	9,886	0	0	0	0
North Carolina	28,074	28,016	0.2%	28,074	28,016	0	0	0	0	0	0
South Carolina	37,252	35,692	4.4%	37,252	35,692	0	0	0	0	0	0
Virginia	19,502	20,597	-5.3%	19,502	20,597	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	55,334	53,851	2.8%	55,334	53,851	0	0	0	0	0	0
Alabama	26,581	28,305	-6.1%	26,581	28,305	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	3,362	5,733	-41.4%	3,362	5,733	0	0	0	0	0	0
Tennessee	25,391	19,813	28.2%	25,391	19,813	0	0	0	0	0	0
West South Central	48,471	41,344	17.2%	20,180	16,397	28,291	24,947	0	0	0	0
Arkansas	9,035	7,261	24.4%	9,035	7,261	0	0	0	0	0	0
Louisiana	11,145	9,136	22.0%	11,145	9,136	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	28,291	24,947	13.4%	0	0	28,291	24,947	0	0	0	0
Mountain	21,514	21,707	-0.9%	21,514	21,707	0	0	0	0	0	0
Arizona	21,514	21,707	-0.9%	21,514	21,707	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	18,233	16,110	13.2%	18,233	16,110	0	0	0	0	0	0
California	11,870	11,284	5.2%	11,870	11,284	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6,364	4,826	31.9%	6,364	4,826	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	547,351	530,540	3.2%	287,244	280,538	260,107	250,002	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	655	400	63.8%	92	55	532	324	0	0	31	21
Connecticut	30	16	94.7%	3	1	28	14	0	0	0	0
Maine	293	191	53.4%	0	0	263	171	0	0	30	21
Massachusetts	92	39	132.7%	23	10	67	29	0	0	1	0
New Hampshire	129	77	68.5%	30	18	99	58	0	0	0	0
Rhode Island	0	0	128.3%	0	0	0	0	0	0	0	0
Vermont	110	77	43.5%	36	26	74	51	0	0	0	0
Middle Atlantic	2,851	2,778	2.6%	2,123	2,165	725	609	0	1	NM	4
New Jersey	4	0	NM	0	0	4	0	0	0	0	0
New York	2,567	2,612	-1.7%	2,113	2,160	451	448	0	1	NM	4
Pennsylvania	280	166	69.0%	10	5	271	161	0	0	0	0
East North Central	354	408	-13.1%	299	365	NM	26	0	0	NM	17
Illinois	12	12	3.7%	6	5	NM	6	0	0	0	0
Indiana	27	26	6.8%	27	26	0	0	0	0	0	0
Michigan	104	138	-24.7%	95	127	NM	9	0	0	NM	2
Ohio	46	23	98.4%	25	23	NM	0	0	0	0	0
Wisconsin	165	209	-21.2%	145	185	NM	10	0	0	NM	14
West North Central	838	964	-13.1%	815	934	NM	18	0	0	NM	12
Iowa	NM	88	NM	NM	87	1	1	0	0	0	0
Kansas	2	3	-27.8%	0	0	2	3	0	0	0	0
Minnesota	76	95	-20.2%	NM	68	NM	15	0	0	NM	12
Missouri	107	87	23.3%	107	87	0	0	0	0	0	0
Nebraska	94	111	-14.6%	94	111	0	0	0	0	0	0
North Dakota	161	192	-15.8%	161	192	0	0	0	0	0	0
South Dakota	335	390	-14.1%	335	390	0	0	0	0	0	0
South Atlantic	1,328	882	50.6%	956	708	322	135	1	1	48	38
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19	15	29.8%	19	15	0	0	0	0	0	0
Georgia	203	209	-2.9%	200	207	NM	0	0	0	1	2
Maryland	273	101	171.9%	0	0	273	101	0	0	0	0
North Carolina	389	289	34.5%	384	286	NM	2	1	1	NM	0
South Carolina	181	32	471.2%	177	31	NM	1	0	0	0	0
Virginia	116	124	-6.0%	111	119	NM	5	0	0	0	0
West Virginia	146	113	29.1%	64	50	34	26	0	0	47	36
East South Central	2,000	1,779	12.4%	1,999	1,778	NM	1	0	0	0	0
Alabama	797	644	23.9%	797	644	0	0	0	0	0	0
Kentucky	427	440	-2.9%	426	439	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	775	695	11.5%	775	695	0	0	0	0	0	0
West South Central	649	780	-16.8%	561	672	87	107	NM	0	0	0
Arkansas	277	375	-26.1%	272	371	NM	5	0	0	0	0
Louisiana	78	100	-22.0%	0	0	78	100	0	0	0	0
Oklahoma	186	225	-17.4%	186	225	0	0	0	0	0	0
Texas	107	79	35.5%	103	76	4	2	NM	0	0	0
Mountain	2,425	3,063	-20.8%	2,326	2,938	97	124	2	2	0	0
Arizona	621	654	-5.0%	621	654	0	0	0	0	0	0
Colorado	133	55	141.3%	115	42	NM	11	2	2	0	0
Idaho	670	971	-31.0%	606	882	NM	89	0	0	0	0
Montana	686	996	-31.1%	677	982	NM	14	0	0	0	0
Nevada	150	152	-1.7%	144	145	NM	7	0	0	0	0
New Mexico	NM	15	NM	NM	15	0	0	0	0	0	0
Utah	80	117	-31.3%	80	117	0	0	0	0	0	0
Wyoming	73	103	-29.8%	NM	102	2	2	0	0	0	0
Pacific Contiguous	10,185	10,682	-4.6%	9,975	10,409	210	272	NM	1	0	0
California	2,810	3,897	-27.9%	2,645	3,662	164	234	NM	1	0	0
Oregon	1,953	1,589	22.9%	1,933	1,576	NM	13	0	0	0	0
Washington	5,423	5,196	4.4%	5,397	5,171	NM	25	0	0	0	0
Pacific Noncontiguous	114	115	-1.1%	95	99	4	1	NM	12	NM	2
Alaska	105	111	-4.8%	93	98	0	0	NM	12	0	0
Hawaii	NM	4	NM	2	1	4	1	0	0	NM	2
U.S. Total	21,398	21,851	-2.1%	19,240	20,124	2,035	1,617	NM	17	106	93

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	5,181	5,585	-7.2%	742	807	4,183	4,507	3	3	254	268
Connecticut	241	268	-10.0%	24	20	217	248	0	0	0	0
Maine	2,321	2,451	-5.3%	0	0	2,072	2,188	0	0	249	263
Massachusetts	721	824	-12.6%	182	200	531	616	3	3	5	5
New Hampshire	1,011	1,068	-5.3%	234	257	777	811	0	0	0	0
Rhode Island	2	2	17.6%	0	0	2	2	0	0	0	0
Vermont	885	971	-8.9%	302	329	583	642	0	0	0	0
Middle Atlantic	22,654	22,597	0.3%	16,908	16,645	5,700	5,897	4	5	41	50
New Jersey	23	12	88.9%	0	0	23	12	0	0	0	0
New York	20,417	20,060	1.8%	16,821	16,568	3,551	3,437	4	5	41	50
Pennsylvania	2,214	2,525	-12.3%	88	77	2,126	2,448	0	0	0	0
East North Central	3,838	3,399	12.9%	3,312	3,055	394	213	1	1	131	130
Illinois	92	86	7.3%	37	32	54	53	1	1	0	0
Indiana	215	207	3.5%	215	207	0	0	0	0	0	0
Michigan	1,234	1,121	10.1%	1,135	1,028	81	73	0	0	18	19
Ohio	360	188	91.6%	195	188	165	0	0	0	0	0
Wisconsin	1,937	1,797	7.8%	1,731	1,600	94	86	0	0	112	110
West North Central	9,446	9,142	3.3%	9,191	8,879	169	159	0	0	86	104
Iowa	756	787	-3.9%	753	782	4	5	0	0	0	0
Kansas	16	21	-26.1%	0	0	16	21	0	0	0	0
Minnesota	900	838	7.4%	664	601	149	133	0	0	86	104
Missouri	848	847	0.1%	848	847	0	0	0	0	0	0
Nebraska	1,121	1,061	5.6%	1,121	1,061	0	0	0	0	0	0
North Dakota	1,907	1,841	3.6%	1,907	1,841	0	0	0	0	0	0
South Dakota	3,899	3,746	4.1%	3,899	3,746	0	0	0	0	0	0
South Atlantic	9,904	9,733	1.8%	7,403	7,246	2,110	2,049	9	9	383	429
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	152	170	-10.7%	152	170	0	0	0	0	0	0
Georgia	1,672	1,677	-0.3%	1,651	1,658	NM	5	0	0	8	14
Maryland	1,709	1,641	4.2%	0	0	1,709	1,641	0	0	0	0
North Carolina	2,892	2,754	5.0%	2,847	2,722	32	25	7	8	NM	0
South Carolina	1,479	1,388	6.5%	1,436	1,352	41	35	1	1	0	0
Virginia	855	813	5.1%	810	769	45	44	0	0	0	0
West Virginia	1,147	1,290	-11.1%	507	576	270	299	0	0	369	415
East South Central	15,846	15,056	5.2%	15,839	15,050	NM	7	0	0	0	0
Alabama	6,660	6,411	3.9%	6,660	6,411	0	0	0	0	0	0
Kentucky	3,093	2,827	9.4%	3,086	2,821	NM	7	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6,093	5,818	4.7%	6,093	5,818	0	0	0	0	0	0
West South Central	5,031	4,729	6.4%	4,352	4,064	678	664	NM	1	0	0
Arkansas	2,132	2,044	4.3%	2,095	2,017	37	27	0	0	0	0
Louisiana	617	616	0.2%	0	0	617	616	0	0	0	0
Oklahoma	1,458	1,383	5.4%	1,458	1,383	0	0	0	0	0	0
Texas	824	687	20.0%	798	664	24	21	NM	1	0	0
Mountain	25,881	24,952	3.7%	24,753	23,846	1,118	1,096	10	10	0	0
Arizona	4,997	4,892	2.1%	4,997	4,892	0	0	0	0	0	0
Colorado	1,463	1,772	-17.4%	1,270	1,528	183	234	10	10	0	0
Idaho	7,928	7,535	5.2%	7,176	6,842	753	693	0	0	0	0
Montana	8,111	7,730	4.9%	7,996	7,620	114	110	0	0	0	0
Nevada	1,437	1,169	22.9%	1,381	1,123	56	46	0	0	0	0
New Mexico	145	148	-1.9%	145	148	0	0	0	0	0	0
Utah	962	913	5.3%	957	906	5	8	0	0	0	0
Wyoming	838	794	5.6%	831	788	7	6	0	0	0	0
Pacific Contiguous	109,274	123,869	-11.8%	107,588	121,286	1,676	2,566	NM	17	0	0
California	19,629	33,920	-42.1%	18,483	31,865	1,136	2,038	NM	17	0	0
Oregon	27,441	28,004	-2.0%	27,209	27,775	233	230	0	0	0	0
Washington	62,203	61,944	0.4%	61,896	61,646	307	298	0	0	0	0
Pacific Noncontiguous	1,305	979	33.3%	1,105	843	29	9	142	104	29	23
Alaska	1,231	941	30.7%	1,089	837	0	0	142	104	0	0
Hawaii	74	38	95.8%	16	5	29	9	0	0	29	23
U.S. Total	208,360	220,041	-5.3%	191,193	201,719	16,065	17,167	179	151	923	1,004

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	990	930	6.5%	69	77	813	748	15	18	93	87
Connecticut	79	76	4.2%	0	0	79	76	NM	0	NM	0
Maine	378	370	2.1%	0	0	280	276	5	8	93	86
Massachusetts	258	221	16.6%	NM	5	247	212	5	4	0	0
New Hampshire	159	164	-3.2%	19	29	136	130	4	5	0	0
Rhode Island	33	26	27.6%	0	0	33	26	0	0	0	0
Vermont	83	72	14.5%	44	42	39	30	0	0	0	0
Middle Atlantic	1,263	951	32.8%	11	9	1,125	813	68	65	58	65
New Jersey	234	190	23.0%	11	9	188	151	33	30	NM	1
New York	575	460	25.0%	0	0	539	425	21	21	15	14
Pennsylvania	453	300	51.1%	0	0	398	237	13	14	42	50
East North Central	2,160	1,367	58.0%	304	149	1,705	1,060	18	21	134	136
Illinois	770	451	70.8%	5	3	764	448	NM	0	0	0
Indiana	410	244	67.7%	43	37	357	199	2	2	7	7
Michigan	565	417	35.6%	136	74	360	271	11	14	58	57
Ohio	148	130	13.9%	NM	2	122	103	1	1	21	24
Wisconsin	267	125	113.8%	116	34	101	39	3	4	47	48
West North Central	4,952	3,599	37.6%	1,440	1,085	3,435	2,439	19	15	58	60
Iowa	1,291	830	55.6%	827	534	456	288	4	3	4	5
Kansas	1,433	959	49.4%	138	95	1,293	864	NM	1	0	0
Minnesota	955	656	45.6%	182	137	713	460	7	4	53	55
Missouri	235	86	172.2%	NM	4	224	77	6	6	0	0
Nebraska	302	277	8.9%	23	16	278	260	1	1	0	0
North Dakota	588	652	-9.7%	222	257	366	394	0	0	0	0
South Dakota	148	139	6.6%	43	43	105	96	0	0	0	0
South Atlantic	3,327	2,661	25.0%	504	290	1,845	1,377	41	43	936	951
Delaware	13	10	33.4%	NM	1	11	8	NM	0	1	1
District of Columbia	4	2	90.7%	0	0	0	0	4	2	0	0
Florida	640	455	40.8%	243	64	228	221	5	4	165	166
Georgia	655	680	-3.6%	33	23	271	282	NM	0	350	375
Maryland	132	95	38.5%	NM	1	123	81	2	1	5	12
North Carolina	1,004	787	27.6%	50	44	825	608	15	19	115	116
South Carolina	291	215	35.5%	35	29	98	46	0	0	157	139
Virginia	479	366	31.0%	141	129	181	79	14	16	143	141
West Virginia	108	52	108.8%	0	0	108	52	0	0	0	0
East South Central	657	612	7.3%	18	14	122	67	NM	1	516	530
Alabama	336	332	1.3%	4	3	58	35	0	0	275	294
Kentucky	46	47	-1.2%	14	12	NM	1	0	0	31	34
Mississippi	162	135	20.2%	0	0	34	11	0	0	128	124
Tennessee	112	98	14.0%	0	0	29	19	NM	1	82	79
West South Central	8,964	5,398	66.1%	134	72	8,390	4,852	8	5	433	469
Arkansas	147	117	25.6%	NM	0	29	3	0	1	117	113
Louisiana	219	253	-13.3%	NM	NM	NM	8	0	0	211	245
Oklahoma	2,125	1,006	111.1%	116	60	1,982	919	0	0	26	27
Texas	6,474	4,022	60.9%	17	12	6,371	3,922	7	4	79	85
Mountain	3,833	3,349	14.4%	298	270	3,507	3,034	15	12	12	33
Arizona	614	524	17.1%	85	59	527	463	NM	2	0	0
Colorado	859	715	20.1%	24	20	833	694	NM	1	0	0
Idaho	259	273	-5.2%	NM	12	237	229	1	1	9	31
Montana	132	139	-5.6%	NM	14	117	123	0	0	2	2
Nevada	816	749	8.9%	4	4	804	737	8	7	0	0
New Mexico	541	379	42.6%	27	24	514	356	NM	0	0	0
Utah	350	296	18.1%	23	20	325	276	1	0	0	0
Wyoming	262	273	-3.9%	112	117	150	156	0	0	0	0
Pacific Contiguous	7,001	6,979	0.3%	714	640	5,985	6,021	80	84	222	234
California	5,448	5,651	-3.6%	239	249	5,062	5,251	77	80	70	71
Oregon	858	731	17.4%	153	119	658	561	3	2	44	49
Washington	695	596	16.6%	322	272	265	209	NM	1	108	114
Pacific Noncontiguous	134	116	15.1%	15	15	96	77	23	24	NM	0
Alaska	14	11	24.5%	NM	5	NM	3	3	4	NM	0
Hawaii	120	105	14.1%	8	11	92	75	20	20	0	0
U.S. Total	33,280	25,961	28.2%	3,508	2,621	27,022	20,488	288	286	2,461	2,565

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	8,179	7,506	9.0%	539	579	6,789	6,081	122	135	727	711
Connecticut	570	553	2.9%	2	3	566	550	NM	1	NM	0
Maine	3,488	3,293	5.9%	0	0	2,718	2,521	47	62	723	709
Massachusetts	1,854	1,503	23.4%	54	50	1,755	1,413	41	38	4	2
New Hampshire	1,340	1,351	-0.8%	154	198	1,159	1,124	27	28	0	0
Rhode Island	271	241	12.3%	0	0	266	236	5	5	0	0
Vermont	655	565	15.9%	328	328	325	235	1	2	0	0
Middle Atlantic	10,520	9,554	10.1%	70	58	9,453	8,493	491	466	506	537
New Jersey	1,583	1,286	23.1%	70	58	1,271	1,010	235	212	8	6
New York	4,823	4,423	9.1%	0	0	4,545	4,144	155	152	124	128
Pennsylvania	4,113	3,845	7.0%	0	0	3,638	3,339	101	103	375	403
East North Central	22,564	18,958	19.0%	2,756	1,741	18,565	16,012	152	158	1,092	1,047
Illinois	8,786	8,259	6.4%	38	25	8,742	8,231	NM	3	0	0
Indiana	4,318	3,248	32.9%	322	276	3,928	2,904	15	14	53	53
Michigan	5,387	4,818	11.8%	1,357	1,156	3,490	3,136	86	94	455	431
Ohio	1,669	1,610	3.7%	29	16	1,436	1,386	9	10	195	198
Wisconsin	2,404	1,023	135.0%	1,010	267	969	355	36	37	389	365
West North Central	51,504	46,552	10.6%	15,907	15,336	35,000	30,632	124	119	473	465
Iowa	14,353	13,607	5.5%	9,226	8,964	5,078	4,589	27	22	22	31
Kansas	13,194	11,825	11.6%	1,267	1,009	11,917	10,808	11	9	0	-2
Minnesota	9,695	8,379	15.7%	1,934	1,873	7,276	6,042	39	32	446	432
Missouri	2,167	1,144	89.5%	40	29	2,088	1,070	38	43	2	2
Nebraska	3,368	3,144	7.1%	178	154	3,180	2,977	10	12	0	0
North Dakota	6,947	6,632	4.7%	2,730	2,748	4,215	3,883	0	0	2	1
South Dakota	1,780	1,821	-2.2%	533	558	1,247	1,262	0	0	0	0
South Atlantic	25,352	20,513	23.6%	3,681	2,312	14,083	10,824	314	351	7,274	7,026
Delaware	91	77	17.0%	5	4	72	60	5	4	8	9
District of Columbia	38	31	24.6%	0	0	0	0	38	31	0	0
Florida	5,141	3,832	34.1%	1,791	661	1,974	1,808	35	32	1,341	1,332
Georgia	4,929	4,751	3.7%	220	185	1,965	1,909	3	2	2,741	2,655
Maryland	1,042	907	14.9%	7	6	949	812	20	9	67	80
North Carolina	7,199	5,405	33.2%	330	261	5,882	4,153	99	136	888	855
South Carolina	2,231	1,667	33.8%	307	278	708	313	0	0	1,216	1,076
Virginia	3,471	2,723	27.5%	1,019	918	1,324	650	115	137	1,013	1,018
West Virginia	1,210	1,119	8.1%	0	0	1,210	1,119	0	0	0	0
East South Central	4,988	4,384	13.8%	137	100	874	362	4	2	3,974	3,920
Alabama	2,592	2,315	12.0%	30	8	416	206	0	0	2,147	2,101
Kentucky	367	351	4.3%	107	92	9	9	0	0	250	250
Mississippi	1,226	1,014	21.0%	0	0	247	34	0	0	979	980
Tennessee	803	704	14.1%	0	0	201	113	4	2	598	589
West South Central	79,013	64,782	22.0%	1,109	1,050	74,309	60,233	63	52	3,532	3,446
Arkansas	1,161	978	18.7%	NM	1	214	101	4	4	942	871
Louisiana	1,822	1,840	-1.0%	NM	2	58	59	0	0	1,762	1,779
Oklahoma	19,350	15,152	27.7%	953	911	18,179	14,074	0	0	219	167
Texas	56,680	46,812	21.1%	153	136	55,858	45,999	59	48	609	629
Mountain	32,505	28,342	14.7%	2,684	2,402	29,466	25,600	103	87	252	253
Arizona	4,400	3,989	10.3%	601	434	3,782	3,539	17	17	0	0
Colorado	7,553	6,809	10.9%	219	191	7,317	6,606	16	10	2	2
Idaho	2,564	2,319	10.5%	122	115	2,201	1,962	7	8	234	235
Montana	1,437	1,368	5.1%	141	140	1,282	1,213	0	0	14	14
Nevada	6,035	5,095	18.5%	30	30	5,951	5,018	52	44	2	2
New Mexico	5,157	3,520	46.5%	186	180	4,969	3,338	NM	2	0	0
Utah	2,530	2,542	-0.5%	177	157	2,344	2,378	9	7	0	0
Wyoming	2,829	2,700	4.8%	1,208	1,155	1,621	1,545	0	0	0	0
Pacific Contiguous	54,301	49,908	8.8%	5,718	5,136	46,184	42,448	625	666	1,773	1,658
California	41,192	38,627	6.6%	1,598	1,567	38,469	35,978	597	639	528	443
Oregon	6,649	5,430	22.4%	1,049	816	5,204	4,248	21	20	374	346
Washington	6,459	5,851	10.4%	3,072	2,753	2,510	2,223	7	6	871	869
Pacific Noncontiguous	1,083	986	9.8%	125	127	794	705	163	153	1	1
Alaska	135	118	14.0%	68	59	35	32	30	26	1	1
Hawaii	948	867	9.3%	57	68	758	673	133	127	0	0
U.S. Total	290,008	251,485	15.3%	32,726	28,840	235,517	201,391	2,160	2,190	19,605	19,063

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	-49	-47	2.9%	0	0	-49	-47	0	0	0	0
Connecticut	2	0	302.6%	0	0	2	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-51	-48	5.6%	0	0	-51	-48	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	-136	-118	15.6%	-64	-58	-73	-60	0	0	0	0
New Jersey	-19	-16	23.5%	-19	-16	0	0	0	0	0	0
New York	-45	-43	5.2%	-45	-43	0	0	0	0	0	0
Pennsylvania	-73	-60	20.8%	0	0	-73	-60	0	0	0	0
East North Central	-117	-93	26.3%	-117	-93	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	-117	-93	26.3%	-117	-93	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	-17	20	-184.5%	-17	20	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	-17	20	-184.5%	-17	20	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-306	-401	-23.6%	-306	-401	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	-44	-129	-65.6%	-44	-129	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	-77	-102	-24.8%	-77	-102	0	0	0	0	0	0
Virginia	-185	-170	8.7%	-185	-170	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-77	-85	-9.3%	-77	-85	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	-77	-85	-9.3%	-77	-85	0	0	0	0	0	0
West South Central	-12	-9	41.4%	-12	-9	0	0	0	0	0	0
Arkansas	1	2	-53.0%	1	2	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-13	-11	20.8%	-13	-11	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-7	-16	-53.7%	-7	-16	0	0	0	0	0	0
Arizona	16	16	4.9%	16	16	0	0	0	0	0	0
Colorado	-24	-31	-24.3%	-24	-31	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	-25	109	-123.1%	-25	109	0	0	0	0	0	0
California	-28	108	-125.8%	-28	108	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	2	65.3%	3	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	-747	-638	17.1%	-626	-531	-121	-107	0	0	0	0

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	-309	-297	4.0%	0	0	-309	-297	0	0	0	0
Connecticut	-2	-3	-41.5%	0	0	-2	-3	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-307	-294	4.5%	0	0	-307	-294	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	-841	-790	6.4%	-405	-383	-436	-407	0	0	0	0
New Jersey	-111	-111	0.2%	-111	-111	0	0	0	0	0	0
New York	-294	-272	8.1%	-294	-272	0	0	0	0	0	0
Pennsylvania	-436	-407	7.0%	0	0	-436	-407	0	0	0	0
East North Central	-498	-482	3.2%	-498	-482	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	-498	-482	3.2%	-498	-482	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	5	108	-95.7%	5	108	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	5	108	-95.7%	5	108	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	-1,707	-2,416	-29.4%	-1,707	-2,416	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	-330	-865	-61.9%	-330	-865	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	-408	-701	-41.8%	-408	-701	0	0	0	0	0	0
Virginia	-969	-849	14.1%	-969	-849	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-425	-465	-8.5%	-425	-465	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	-425	-465	-8.5%	-425	-465	0	0	0	0	0	0
West South Central	-58	-61	-4.5%	-58	-61	0	0	0	0	0	0
Arkansas	30	18	63.9%	30	18	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-88	-80	11.2%	-88	-80	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-163	-233	-29.8%	-163	-233	0	0	0	0	0	0
Arizona	36	-9	-494.3%	36	-9	0	0	0	0	0	0
Colorado	-200	-223	-10.6%	-200	-223	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	53	345	-84.7%	53	345	0	0	0	0	0	0
California	22	342	-93.5%	22	342	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	31	4	742.1%	31	4	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-3,944	-4,291	-8.1%	-3,199	-3,587	-745	-705	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	151	163	-7.6%	0	0	134	144	5	8	12	11
Connecticut	44	47	-5.9%	0	0	44	47	0	0	0	0
Maine	32	36	-11.0%	0	0	15	16	5	8	12	11
Massachusetts	72	77	-7.4%	0	0	72	77	0	0	0	0
New Hampshire	3	4	-2.1%	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	196	223	-12.2%	0	0	157	178	39	40	0	5
New Jersey	45	51	-11.1%	0	0	33	33	12	12	0	5
New York	80	83	-3.9%	0	0	60	64	19	19	0	0
Pennsylvania	71	90	-20.4%	0	0	63	81	8	9	0	0
East North Central	82	80	1.4%	2	1	9	8	12	15	59	56
Illinois	25	25	0.1%	0	0	-1	-2	0	0	26	27
Indiana	31	28	10.6%	0	0	0	0	2	2	30	27
Michigan	21	26	-16.2%	0	0	10	11	10	13	1	1
Ohio	1	-1	-349.3%	0	0	0	-1	0	0	2	1
Wisconsin	3	2	13.0%	2	2	0	0	0	0	NM	1
West North Central	42	42	-1.2%	23	23	13	12	3	3	4	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	0.0%	0	0	0	0	0	0	0	0
Minnesota	37	37	2.4%	19	17	13	12	3	3	3	4
Missouri	0	1	-100.0%	0	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	5	-16.5%	4	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	375	382	-2.0%	0	0	217	174	13	15	145	194
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	246	280	-12.3%	0	0	130	125	0	0	115	155
Georgia	7	7	1.1%	0	0	0	0	0	0	7	7
Maryland	31	23	32.7%	0	0	31	23	0	0	0	0
North Carolina	45	55	-18.0%	0	0	26	26	0	0	19	28
South Carolina	4	4	21.9%	0	0	1	1	0	0	4	3
Virginia	43	15	190.0%	0	0	30	0	13	15	0	0
West Virginia	-1	-1	-3.9%	0	0	-1	-1	0	0	0	0
East South Central	9	7	27.4%	8	5	0	0	0	0	NM	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	8	5	67.2%	8	5	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	2	NM	0	0	0	0	0	0	NM	2
West South Central	-31	131	-124.0%	0	0	-133	9	0	0	101	122
Arkansas	0	0	NM	0	0	0	0	0	0	0	0
Louisiana	57	77	-26.2%	0	0	0	0	0	0	57	77
Oklahoma	6	6	3.2%	0	0	6	5	0	0	1	1
Texas	-95	48	-298.8%	0	0	-138	4	0	0	43	44
Mountain	64	63	2.1%	8	9	25	30	0	0	31	25
Arizona	0	0	89.5%	0	0	0	0	0	0	0	0
Colorado	4	5	-3.3%	0	0	1	1	0	0	4	4
Idaho	5	7	-19.7%	0	0	0	0	0	0	5	7
Montana	24	29	-15.3%	0	0	24	29	0	0	0	0
Nevada	3	2	29.1%	3	2	0	0	0	0	0	0
New Mexico	0	0	-125.9%	0	0	0	0	0	0	0	0
Utah	19	21	-8.3%	5	6	0	0	0	0	14	15
Wyoming	8	0	--	0	0	0	0	0	0	8	0
Pacific Contiguous	84	91	-7.5%	0	1	21	26	0	0	63	64
California	76	82	-6.8%	0	1	14	17	0	0	63	64
Oregon	3	4	-6.5%	0	0	3	4	0	0	0	0
Washington	4	5	-18.6%	0	0	4	5	0	0	0	0
Pacific Noncontiguous	37	36	1.5%	18	17	0	0	19	19	0	0
Alaska	0	0	-7.1%	0	0	0	0	0	0	0	0
Hawaii	37	36	1.4%	18	17	0	0	19	19	0	0
U.S. Total	1,007	1,220	-17.4%	58	55	442	580	91	100	416	484

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	1,157	1,224	-5.5%	0	0	1,025	1,076	45	58	87	90
Connecticut	309	363	-14.7%	0	0	309	363	0	0	0	0
Maine	250	272	-8.0%	0	0	118	124	45	58	87	90
Massachusetts	566	557	1.6%	0	0	566	557	0	0	0	0
New Hampshire	31	32	-2.8%	0	0	31	32	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	1,480	1,576	-6.1%	0	1	1,178	1,235	296	295	6	45
New Jersey	366	378	-3.1%	0	1	263	236	97	96	6	45
New York	589	604	-2.5%	0	0	450	467	139	137	0	0
Pennsylvania	525	594	-11.7%	0	0	465	532	60	62	0	0
East North Central	577	556	3.7%	14	10	76	48	96	104	391	395
Illinois	172	159	8.6%	0	0	-11	-18	0	0	183	176
Indiana	195	209	-6.5%	0	0	0	0	14	13	181	196
Michigan	179	174	3.3%	0	0	87	73	82	90	10	11
Ohio	7	-3	-304.8%	-2	-2	0	-7	0	0	9	6
Wisconsin	23	19	23.2%	15	12	0	0	0	0	8	7
West North Central	307	308	-0.2%	153	145	93	103	22	23	39	36
Iowa	0	2	-100.0%	0	0	0	0	0	0	0	2
Kansas	3	3	9.5%	0	0	0	0	0	0	3	3
Minnesota	274	266	2.8%	123	109	93	103	22	23	35	31
Missouri	1	2	-61.1%	1	2	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	29	34	-14.1%	29	34	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,967	2,907	2.1%	0	0	1,692	1,426	103	124	1,172	1,358
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	1,991	2,118	-6.0%	0	0	1,039	1,019	0	0	952	1,099
Georgia	53	49	6.6%	0	0	0	0	0	0	53	49
Maryland	223	202	10.5%	0	0	223	202	0	0	0	0
North Carolina	360	366	-1.6%	0	0	214	183	0	0	146	184
South Carolina	26	30	-11.4%	0	0	5	4	0	0	21	25
Virginia	323	151	113.6%	0	0	220	27	103	124	0	0
West Virginia	-9	-9	-8.8%	0	0	-9	-9	0	0	0	0
East South Central	47	42	13.0%	40	24	0	0	0	0	7	18
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	40	24	70.4%	40	24	0	0	0	0	0	0
Mississippi	0	2	-100.0%	0	0	0	0	0	0	0	2
Tennessee	7	16	-58.3%	0	0	0	0	0	0	7	16
West South Central	631	837	-24.6%	0	0	-67	68	0	0	698	769
Arkansas	5	3	46.4%	0	0	0	0	0	0	5	3
Louisiana	458	438	4.4%	0	0	0	0	0	0	458	438
Oklahoma	34	29	17.4%	0	0	31	30	0	0	4	0
Texas	134	366	-63.3%	0	0	-97	38	0	0	232	328
Mountain	518	473	9.4%	59	60	213	230	0	0	246	184
Arizona	-1	-1	49.4%	0	0	-1	-1	0	0	0	0
Colorado	40	37	7.3%	0	0	13	10	0	0	27	27
Idaho	44	42	5.4%	0	0	0	0	0	0	44	42
Montana	201	220	-8.6%	0	0	201	220	0	0	0	0
Nevada	20	20	-0.8%	20	20	0	0	0	0	0	0
New Mexico	0	0	-74.1%	0	0	0	0	0	0	0	0
Utah	155	133	16.2%	39	40	0	0	0	0	116	93
Wyoming	59	22	169.2%	0	0	0	0	0	0	59	22
Pacific Contiguous	646	650	-0.6%	0	7	183	189	0	0	463	454
California	579	589	-1.7%	0	8	116	128	0	0	463	454
Oregon	27	25	8.8%	0	0	28	25	0	0	0	0
Washington	40	35	11.3%	0	0	40	36	0	0	0	0
Pacific Noncontiguous	249	239	4.2%	122	116	0	2	128	122	0	0
Alaska	-2	-2	-16.5%	-2	-2	0	0	0	0	0	0
Hawaii	251	241	4.0%	123	118	0	2	128	122	0	0
U.S. Total	8,579	8,811	-2.6%	388	363	4,393	4,376	689	724	3,108	3,348

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Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	231	198	16.6%	16	13	213	183	NM	1	0	0
Connecticut	NM	1	NM	0	0	NM	1	0	0	0	0
Maine	145	137	6.0%	0	0	145	137	0	0	0	0
Massachusetts	16	12	33.2%	NM	3	NM	7	NM	1	0	0
New Hampshire	33	24	38.5%	0	0	33	24	0	0	0	0
Rhode Island	10	8	20.2%	0	0	9	8	0	0	0	0
Vermont	27	17	58.5%	NM	10	15	7	0	0	0	0
Middle Atlantic	566	307	84.4%	0	0	565	306	NM	0	0	0
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	325	230	41.3%	0	0	325	230	NM	0	0	0
Pennsylvania	239	75	217.2%	0	0	239	75	0	0	0	0
East North Central	1,591	829	91.9%	201	68	1,384	759	NM	0	NM	2
Illinois	726	408	77.9%	NM	0	725	407	NM	0	0	0
Indiana	327	172	89.5%	0	0	327	172	0	0	0	0
Michigan	329	190	73.3%	124	64	205	126	0	0	0	0
Ohio	80	54	49.0%	NM	0	74	51	0	0	NM	2
Wisconsin	129	5	NM	75	3	54	2	0	0	0	0
West North Central	4,600	3,300	39.4%	1,384	1,032	3,213	2,266	NM	2	0	0
Iowa	1,270	809	57.0%	823	531	446	277	0	0	0	0
Kansas	1,427	953	49.7%	138	95	1,287	857	NM	1	0	0
Minnesota	669	413	61.9%	141	98	526	314	NM	1	0	0
Missouri	208	68	206.9%	0	0	208	68	0	0	0	0
Nebraska	290	267	8.7%	16	9	275	259	0	0	0	0
North Dakota	588	651	-9.7%	222	257	366	394	0	0	0	0
South Dakota	148	139	6.6%	43	43	105	96	0	0	0	0
South Atlantic	165	101	63.6%	0	0	165	101	0	0	0	0
Delaware	0	0	-20.7%	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	33	24	42.0%	0	0	33	24	0	0	0	0
North Carolina	24	25	-7.1%	0	0	24	25	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	108	52	108.8%	0	0	108	52	0	0	0	0
East South Central	NM	2	NM	0	0	NM	2	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	2	NM	0	0	NM	2	0	0	0	0
West South Central	8,044	4,635	73.5%	126	67	7,912	4,566	5	1	NM	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,090	974	114.6%	110	56	1,980	917	0	0	0	0
Texas	5,954	3,662	62.6%	16	11	5,932	3,649	5	1	NM	1
Mountain	1,854	1,563	18.6%	158	161	1,696	1,402	NM	0	0	0
Arizona	48	36	32.2%	0	0	48	36	0	0	0	0
Colorado	731	617	18.4%	23	19	707	597	NM	0	0	0
Idaho	172	161	6.9%	NM	11	162	150	0	0	0	0
Montana	126	136	-7.6%	NM	14	113	122	0	0	0	0
Nevada	29	23	28.6%	0	0	29	23	0	0	0	0
New Mexico	405	266	52.5%	0	0	405	266	NM	0	0	0
Utah	82	52	56.4%	0	0	82	52	0	0	0	0
Wyoming	262	273	-3.9%	112	117	150	156	0	0	0	0
Pacific Contiguous	2,398	2,651	-9.5%	551	464	1,846	2,186	0	0	1	1
California	1,157	1,618	-28.5%	105	123	1,051	1,494	0	0	1	1
Oregon	688	608	13.2%	147	114	541	494	0	0	0	0
Washington	554	425	30.3%	299	227	255	198	0	0	0	0
Pacific Noncontiguous	54	35	53.2%	NM	5	46	30	0	0	0	0
Alaska	NM	7	NM	NM	5	NM	3	0	0	0	0
Hawaii	43	28	55.3%	0	0	43	28	0	0	0	0
U.S. Total	19,507	13,621	43.2%	2,444	1,810	17,045	11,801	11	6	NM	4

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	2,487	2,153	15.5%	166	151	2,297	1,983	21	18	2	1
Connecticut	NM	8	NM	0	0	NM	8	0	0	0	0
Maine	1,632	1,458	11.9%	0	0	1,632	1,458	0	0	0	0
Massachusetts	163	147	10.6%	41	39	104	94	16	14	2	1
New Hampshire	309	257	20.1%	0	0	309	257	0	0	0	0
Rhode Island	106	95	11.3%	0	0	101	90	5	5	0	0
Vermont	269	188	43.2%	125	112	143	76	0	0	0	0
Middle Atlantic	5,528	4,956	11.5%	0	0	5,523	4,953	NM	2	2	1
New Jersey	16	15	6.0%	0	0	16	15	0	0	0	0
New York	3,028	2,779	9.0%	0	0	3,023	2,776	NM	2	2	1
Pennsylvania	2,484	2,163	14.8%	0	0	2,484	2,163	0	0	0	0
East North Central	18,175	14,847	22.4%	2,024	1,174	16,094	13,627	5	7	52	41
Illinois	8,434	7,888	6.9%	9	9	8,421	7,876	NM	3	0	0
Indiana	3,729	2,728	36.7%	0	0	3,729	2,728	0	1	0	0
Michigan	3,572	3,116	14.6%	1,276	1,116	2,296	1,999	0	0	0	0
Ohio	1,102	1,048	5.2%	11	8	1,042	1,002	2	2	47	36
Wisconsin	1,339	68	NM	728	41	606	22	0	0	4	5
West North Central	48,861	44,416	10.0%	15,501	14,973	33,331	29,416	30	28	0	0
Iowa	14,196	13,457	5.5%	9,199	8,946	4,995	4,508	2	3	0	0
Kansas	13,148	11,781	11.6%	1,265	1,008	11,873	10,764	11	9	0	0
Minnesota	7,527	6,658	13.1%	1,648	1,612	5,862	5,030	18	16	0	0
Missouri	1,985	1,003	98.0%	0	0	1,985	1,003	0	0	0	0
Nebraska	3,283	3,067	7.0%	126	101	3,157	2,966	0	0	0	0
North Dakota	6,945	6,631	4.7%	2,730	2,748	4,215	3,883	0	0	0	0
South Dakota	1,778	1,819	-2.2%	533	558	1,245	1,261	0	0	0	0
South Atlantic	1,947	1,813	7.4%	0	0	1,944	1,810	3	3	0	0
Delaware	3	3	4.1%	0	0	0	0	3	3	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	369	375	-1.6%	0	0	369	375	0	0	0	0
North Carolina	365	316	15.7%	0	0	365	316	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1,210	1,119	8.1%	0	0	1,210	1,119	0	0	0	0
East South Central	39	28	41.9%	0	0	39	28	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	39	28	41.9%	0	0	39	28	0	0	0	0
West South Central	72,268	59,261	21.9%	1,053	1,022	71,169	58,207	37	25	NM	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	19,069	14,951	27.5%	905	889	18,164	14,063	0	0	0	0
Texas	53,199	44,310	20.1%	148	133	53,005	44,144	37	25	NM	7
Mountain	18,122	15,472	17.1%	1,676	1,592	16,439	13,875	NM	2	2	2
Arizona	426	356	19.7%	0	0	426	356	0	0	0	0
Colorado	6,659	6,013	10.8%	214	190	6,440	5,820	NM	1	2	2
Idaho	1,764	1,590	10.9%	113	107	1,651	1,483	0	0	0	0
Montana	1,395	1,347	3.6%	141	140	1,254	1,206	0	0	0	0
Nevada	265	226	17.1%	0	0	265	226	0	0	0	0
New Mexico	4,202	2,647	58.7%	0	0	4,200	2,645	NM	2	0	0
Utah	582	593	-1.9%	0	0	582	593	0	0	0	0
Wyoming	2,829	2,700	4.8%	1,208	1,155	1,621	1,545	0	0	0	0
Pacific Contiguous	20,543	19,106	7.5%	4,421	3,867	16,115	15,231	4	4	4	4
California	9,906	9,928	-0.2%	621	630	9,277	9,291	4	4	4	4
Oregon	5,412	4,566	18.5%	1,003	770	4,409	3,796	0	0	0	0
Washington	5,225	4,612	13.3%	2,796	2,468	2,429	2,145	0	0	0	0
Pacific Noncontiguous	492	432	13.9%	68	59	423	373	0	0	0	0
Alaska	104	91	14.3%	68	59	35	32	0	0	0	0
Hawaii	388	341	13.8%	0	0	388	341	0	0	0	0
U.S. Total	188,463	162,485	16.0%	24,909	22,838	163,375	139,502	108	90	71	55

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	583	611	-4.6%	45	56	433	452	13	16	93	86
Connecticut	65	71	-7.6%	0	0	65	71	0	0	0	0
Maine	231	233	-0.5%	0	0	134	138	5	8	93	86
Massachusetts	100	107	-6.2%	0	0	97	104	3	3	0	0
New Hampshire	126	141	-10.2%	19	29	103	107	4	5	0	0
Rhode Island	20	16	19.5%	0	0	20	16	0	0	0	0
Vermont	40	43	-8.2%	26	27	NM	16	0	0	0	0
Middle Atlantic	485	509	-4.7%	0	0	384	399	46	47	56	63
New Jersey	83	84	-0.5%	0	0	70	69	13	14	0	0
New York	199	209	-4.7%	0	0	163	175	20	20	15	14
Pennsylvania	203	217	-6.2%	0	0	151	155	12	13	40	49
East North Central	478	472	1.4%	73	60	261	258	16	20	129	134
Illinois	38	37	1.0%	4	2	34	35	0	0	0	0
Indiana	41	40	3.0%	28	27	4	4	2	2	7	7
Michigan	216	216	-0.2%	0	0	147	145	11	14	58	57
Ohio	52	62	-17.0%	NM	0	33	39	1	1	17	22
Wisconsin	132	116	13.7%	41	31	42	34	3	4	47	48
West North Central	187	226	-17.2%	53	51	61	102	16	13	58	60
Iowa	20	21	-4.5%	NM	2	10	10	3	3	4	5
Kansas	NM	5	NM	0	0	NM	6	0	0	0	0
Minnesota	139	179	-22.1%	40	39	42	83	5	3	53	55
Missouri	15	13	16.8%	NM	3	NM	4	6	6	0	0
Nebraska	8	8	-0.9%	7	7	0	0	1	1	0	0
North Dakota	0	0	-100.0%	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,738	1,732	0.3%	218	162	560	591	25	29	936	951
Delaware	NM	5	NM	0	0	NM	4	0	0	1	1
District of Columbia	4	2	90.7%	0	0	0	0	4	2	0	0
Florida	418	385	8.5%	63	6	186	210	4	4	164	166
Georgia	426	492	-13.5%	0	0	75	117	0	0	350	375
Maryland	45	42	7.0%	0	0	39	30	1	0	5	12
North Carolina	231	240	-3.8%	0	0	115	117	NM	7	115	116
South Carolina	224	205	9.5%	35	29	32	37	0	0	157	139
Virginia	384	361	6.5%	119	127	108	76	14	16	143	141
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	554	566	-2.2%	NM	10	30	27	0	0	515	530
Alabama	296	312	-5.2%	0	0	21	18	0	0	275	294
Kentucky	40	45	-9.8%	NM	10	NM	1	0	0	31	34
Mississippi	129	124	4.4%	0	0	NM	0	0	0	128	124
Tennessee	88	86	3.0%	0	0	NM	7	0	0	81	79
West South Central	519	529	-2.0%	0	0	84	58	3	3	432	469
Arkansas	125	114	9.3%	0	0	7	1	0	1	117	113
Louisiana	219	253	-13.3%	0	0	NM	8	0	0	211	245
Oklahoma	28	29	-2.5%	0	0	NM	2	0	0	26	27
Texas	147	134	9.6%	0	0	67	47	3	3	78	84
Mountain	72	88	-18.0%	NM	1	57	52	2	1	11	33
Arizona	15	19	-16.9%	0	0	15	19	0	0	0	0
Colorado	15	13	21.0%	0	0	15	13	0	0	0	0
Idaho	24	46	-46.9%	NM	1	13	13	1	1	9	31
Montana	2	2	0.1%	0	0	0	0	0	0	2	2
Nevada	NM	4	NM	0	0	NM	4	0	0	0	0
New Mexico	2	1	19.8%	0	0	2	1	0	0	0	0
Utah	NM	3	NM	0	0	NM	3	1	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	714	792	-9.8%	34	59	402	430	63	71	215	232
California	486	530	-8.4%	5	10	358	385	60	68	63	68
Oregon	86	90	-4.4%	NM	5	34	34	3	2	44	49
Washington	142	171	-17.3%	23	45	10	11	NM	1	108	114
Pacific Noncontiguous	32	35	-7.5%	4	6	NM	5	23	24	NM	0
Alaska	3	4	-13.5%	0	0	0	0	3	4	NM	0
Hawaii	29	31	-6.7%	4	6	NM	5	20	20	0	0
U.S. Total	5,363	5,561	-3.6%	437	406	2,276	2,373	206	225	2,444	2,556

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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 August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	4,577	4,665	-1.9%	323	385	3,435	3,459	95	112	723	709
Connecticut	479	517	-7.3%	0	0	479	517	0	0	0	0
Maine	1,847	1,831	0.9%	0	0	1,077	1,060	47	62	723	709
Massachusetts	795	783	1.5%	0	0	775	763	20	20	0	0
New Hampshire	1,031	1,093	-5.7%	154	198	850	867	27	28	0	0
Rhode Island	138	136	2.0%	0	0	138	136	0	0	0	0
Vermont	287	305	-6.0%	169	187	116	116	1	2	0	0
Middle Atlantic	3,742	3,745	-0.1%	0	0	2,899	2,866	354	355	490	524
New Jersey	654	602	8.6%	0	0	542	491	112	111	0	0
New York	1,525	1,512	0.8%	0	0	1,255	1,240	148	146	122	127
Pennsylvania	1,563	1,631	-4.1%	0	0	1,102	1,135	94	98	368	397
East North Central	3,820	3,742	2.1%	535	459	2,107	2,128	140	150	1,038	1,005
Illinois	308	335	-7.9%	27	15	282	319	0	0	0	0
Indiana	316	315	0.5%	215	215	33	33	15	14	53	53
Michigan	1,702	1,662	2.4%	0	0	1,162	1,137	86	94	455	431
Ohio	462	490	-5.7%	11	2	301	321	5	5	146	161
Wisconsin	1,032	941	9.7%	282	227	330	318	35	37	385	360
West North Central	1,593	1,641	-2.9%	389	355	638	731	93	90	473	465
Iowa	145	147	-1.3%	18	15	81	81	25	20	22	31
Kansas	39	40	-1.3%	0	0	39	42	0	0	0	-2
Minnesota	1,237	1,282	-3.5%	284	260	486	574	21	16	446	432
Missouri	107	105	2.3%	36	27	32	33	37	42	2	2
Nebraska	62	66	-5.8%	52	53	0	0	10	12	0	0
North Dakota	2	1	62.2%	0	0	0	0	0	0	2	1
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	13,733	13,236	3.8%	1,606	1,411	4,653	4,537	203	263	7,271	7,025
Delaware	42	42	-0.5%	0	0	34	33	0	0	8	9
District of Columbia	38	31	24.6%	0	0	0	0	38	31	0	0
Florida	3,462	3,347	3.5%	423	230	1,671	1,755	30	30	1,338	1,331
Georgia	3,371	3,303	2.0%	0	0	629	648	0	0	2,741	2,655
Maryland	367	343	7.0%	0	0	287	258	13	5	67	80
North Carolina	1,824	1,848	-1.3%	0	0	929	932	7	60	888	855
South Carolina	1,796	1,635	9.8%	307	278	272	281	0	0	1,216	1,076
Virginia	2,833	2,687	5.4%	876	903	830	629	115	137	1,013	1,018
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,272	4,221	1.2%	69	79	234	222	0	0	3,969	3,920
Alabama	2,312	2,253	2.6%	0	0	165	152	0	0	2,147	2,101
Kentucky	327	339	-3.4%	69	79	7	9	0	0	250	250
Mississippi	987	986	0.0%	0	0	8	6	0	0	979	980
Tennessee	647	644	0.5%	0	0	54	55	0	0	593	589
West South Central	4,166	4,021	3.6%	0	0	618	556	25	25	3,523	3,439
Arkansas	1,009	957	5.5%	0	0	64	81	4	4	942	871
Louisiana	1,820	1,838	-1.0%	0	0	58	59	0	0	1,762	1,779
Oklahoma	233	178	31.1%	0	0	14	11	0	0	219	167
Texas	1,104	1,048	5.3%	0	0	482	405	21	21	600	622
Mountain	708	710	-0.2%	9	8	435	438	16	15	248	249
Arizona	124	138	-10.0%	0	0	124	138	0	0	0	0
Colorado	110	113	-2.5%	0	0	110	113	0	0	0	0
Idaho	347	339	2.3%	9	8	96	88	7	8	234	235
Montana	14	14	0.8%	0	0	0	0	0	0	14	14
Nevada	46	39	18.6%	0	0	46	39	0	0	0	0
New Mexico	14	12	17.0%	0	0	14	12	0	0	0	0
Utah	54	56	-4.0%	0	0	45	49	9	7	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,798	5,703	1.7%	381	416	3,172	3,067	512	577	1,733	1,642
California	3,868	3,843	0.7%	66	91	2,831	2,774	484	551	488	427
Oregon	696	621	11.9%	41	41	259	214	21	20	374	346
Washington	1,234	1,238	-0.4%	275	285	81	78	7	6	871	869
Pacific Noncontiguous	231	224	3.2%	32	37	36	33	163	153	1	1
Alaska	31	27	13.0%	0	0	0	0	30	26	1	1
Hawaii	200	197	1.8%	32	37	36	33	133	127	0	0
U.S. Total	42,641	41,908	1.7%	3,346	3,151	18,227	18,038	1,600	1,740	19,469	18,979

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

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	349	312	12.1%	23	20	327	292	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	7	7	-0.5%	0	0	7	7	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	302	266	13.6%	0	0	302	266	0	0	0	0
New Mexico	1	1	20.1%	0	0	1	1	0	0	0	0
Utah	40	39	3.6%	23	20	17	19	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,052	1,006	4.6%	69	68	983	938	0	0	0	0
California	1,036	991	4.5%	69	68	967	923	0	0	0	0
Oregon	16	15	7.8%	0	0	16	15	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	27	28	-0.5%	0	0	27	28	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	27	28	-0.5%	0	0	27	28	0	0	0	0
U.S. Total	1,429	1,345	6.2%	92	88	1,337	1,257	0	0	0	0

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

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	2,753	2,431	13.2%	177	157	2,576	2,274	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	52	53	-1.3%	0	0	52	53	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,381	2,066	15.3%	0	0	2,381	2,066	0	0	0	0
New Mexico	8	9	-12.9%	0	0	8	9	0	0	0	0
Utah	311	303	2.8%	177	157	134	146	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	8,122	7,893	2.9%	521	526	7,601	7,367	0	0	0	0
California	7,997	7,775	2.9%	521	525	7,477	7,251	0	0	0	0
Oregon	125	118	5.9%	0	2	125	116	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	214	216	-1.1%	0	0	214	216	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	214	216	-1.1%	0	0	214	216	0	0	0	0
U.S. Total	11,089	10,541	5.2%	698	683	10,391	9,858	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector				Industrial Sector				Residential Sector	
				Electric Utilities		Independent Power Producers											
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	478	366	30.4%	176	121	301	245	8	7	167	113	NM	127	NM	1	164	126	12	11	0	0	12	11	126	108
Connecticut	65	49	33.8%	13	5	52	44	0	0	12	4	NM	17	NM	0	20	16	NM	2	NM	0	2	2	30	26
Maine	NM	5	NM	NM	1	6	4	0	0	NM	1	2	2	0	0	2	2	0	0	0	0	0	0	4	3
Massachusetts	349	271	29.1%	142	103	207	168	2	2	139	100	NM	99	NM	1	128	98	9	8	0	0	9	8	70	62
New Hampshire	12	10	19.1%	0	0	12	10	0	0	0	0	3	3	0	0	3	3	1	1	0	0	1	1	7	6
Rhode Island	14	8	82.0%	4	2	10	6	0	0	4	2	5	3	0	0	5	3	0	0	0	0	0	0	5	3
Vermont	30	25	23.2%	16	12	14	13	5	5	11	7	5	5	0	0	5	5	NM	NM	0	0	NM	NM	9	8
Middle Atlantic	621	476	30.5%	212	135	409	341	11	9	176	107	204	167	22	17	183	150	23	19	2	2	20	18	207	174
New Jersey	351	278	26.2%	150	106	201	172	11	9	117	80	119	103	20	16	99	88	NM	11	NM	1	12	11	90	74
New York	215	152	41.2%	51	21	164	131	0	0	50	20	NM	49	NM	1	68	48	2	1	0	0	2	1	94	81
Pennsylvania	55	46	20.8%	11	8	44	38	0	0	9	6	NM	15	NM	1	16	14	NM	6	NM	1	6	6	22	18
East North Central	145	104	39.5%	91	66	55	38	29	22	60	44	NM	23	NM	0	33	23	3	2	0	0	3	2	18	13
Illinois	17	13	35.6%	7	6	10	7	0	0	6	5	NM	5	NM	0	7	5	NM	NM	0	0	NM	NM	4	2
Indiana	53	36	46.2%	43	33	11	4	16	10	27	23	7	2	0	0	7	2	0	0	0	0	0	0	3	2
Michigan	29	18	63.6%	20	10	9	7	12	10	8	0	4	4	0	0	4	4	0	0	0	0	0	0	4	3
Ohio	33	28	16.7%	16	14	16	14	NM	1	14	12	NM	11	NM	0	12	10	1	1	0	0	1	1	4	3
Wisconsin	13	9	41.8%	5	3	8	6	0	0	5	3	NM	2	NM	0	3	2	1	1	0	0	1	1	3	3
West North Central	215	112	91.0%	165	73	50	40	NM	1	162	71	25	21	0	0	25	20	2	1	0	0	2	1	24	18
Iowa	NM	10	NM	NM	0	14	10	NM	0	NM	0	9	6	0	0	9	6	0	0	0	0	0	0	5	3
Kansas	NM	2	NM	NM	1	3	2	NM	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	155	70	121.1%	146	64	9	7	NM	0	146	63	3	3	0	0	3	3	1	1	0	0	1	1	5	3
Missouri	36	27	32.4%	12	6	23	21	1	0	12	5	11	11	0	0	11	11	0	0	0	0	0	0	12	10
Nebraska	4	2	89.8%	3	2	1	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
North Dakota	0	0	11.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,652	1,007	64.1%	1,418	823	234	184	281	124	1,120	685	82	68	16	13	66	54	NM	24	NM	0	29	24	139	105
Delaware	19	14	31.5%	7	5	12	10	NM	1	6	4	NM	3	NM	0	3	3	1	1	0	0	1	1	7	6
District of Columbia	7	5	39.8%	0	0	7	5	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	3	2
Florida	256	92	177.6%	217	65	40	27	174	54	41	11	NM	8	NM	0	10	8	NM	1	NM	0	1	1	29	18
Georgia	255	209	22.2%	229	188	26	NM	33	23	196	164	NM	NM	NM	0	NM	NM	NM	NM	0	0	NM	NM	NM	2
Maryland	146	109	33.9%	53	29	93	80	NM	1	51	28	NM	21	NM	1	25	21	4	3	0	0	4	3	65	56
North Carolina	770	539	42.8%	750	522	20	18	50	44	686	466	25	23	14	12	11	10	1	1	0	0	1	1	9	6
South Carolina	92	24	277.0%	66	10	26	15	0	0	66	10	7	4	0	0	7	4	2	1	0	0	2	1	17	10
Virginia	104	12	772.1%	95	5	9	7	21	2	73	3	3	2	0	0	3	2	0	0	0	0	0	0	6	4
West Virginia	1	1	18.4%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	113	56	100.9%	98	43	15	13	10	4	87	38	NM	10	NM	1	10	9	NM	0	NM	0	NM	0	5	4
Alabama	NM	21	NM	41	20	NM	NM	4	3	37	17	1	1	0	0	1	1	0	0	0	0	0	0	NM	NM
Kentucky	9	4	108.2%	6	2	3	3	5	2	NM	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Mississippi	34	12	184.1%	33	11	1	1	0	0	33	11	1	1	0	0	1	1	NM	NM	0	0	NM	NM	0	0
Tennessee	28	19	47.8%	19	10	9	9	0	0	18	10	NM	7	NM	1	7	6	NM	0	NM	0	NM	0	3	2
West South Central	499	302	65.5%	402	233	98	68	8	5	393	228	22	14	0	0	22	14	0	0	0	0	0	0	76	54
Arkansas	24	4	573.8%	22	3	2	1	NM	0	22	2	1	0	0	0	1	0	0	0	0	0	0	0	1	NM
Louisiana	NM	19	NM	NM	NM	22	19	NM	NM	0	0	1	1	0	0	1	1	0	0	0	0	0	0	20	18
Oklahoma	8	4	81.5%	7	4	1	1	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	NM
Texas	445	274	62.3%	373	227	72	48	NM	1	372	226	19	13	0	0	19	13	0	0	0	0	0	0	54	35
Mountain	1,807	1,620	11.6%	1,425	1,300	382	319	116	87	1,296	1,202	121	112	12	11	109	101	7	5	0	0	6	5	267	214
Arizona	671	580	15.7%	464	406	207	174	85	59	377	344	NM	59	NM	2	61	57	2	1	0	0	2	1	144	116
Colorado	169	137	23.2%	113	86	56	52	NM	0	110	84	NM	21	NM	1	20	20	0	NM	0	0	0	NM	36	31
Idaho	60	61	-2.3%	56	59	4	2	0	0	56	59	1	NM	0	0	1	NM	0	0	0	0	0	0	3	1
Montana	NM	3	NM	NM	1	2	2	0	0	NM	1	1	NM	0	0	1	NM	0	0	0	0	0	0	2	1
Nevada	483	475	1.8%	435	435	49	40	4	4	422	423	18	17	8	7	10	10	3	3	0	0	3	2	36	28
New Mexico	156	130	20.1%	133	111	23	19	27	24	106	88	8	7	0	0	8	7	0	0	0	0	0	0	15	12
Utah	260	232	12.1%	221	202	39	30	0	0	221	202	8	6	0	0	8	6	1	1	0	0	1	1	31	23
Wyoming	1	1	31.4%	0	0	1	NM	0	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	0
Pacific Contiguous	3,944	3,418	15.4%	2,565	2,280	1,378	1,138	60	49	2,482	2,216	357	267	17	12	340	255	201	187	6	2	194	185	843	698
California	3,831	3,362	13.9%	2,497	2,261	1,334	1,101	59	48	2,414	2,199	344	255	17	12	327	243	199	186	6	2	193	184	814	674
Oregon	93	41	129.0%	68	18	25	23	NM	1	67	18	11	10	0	0	11	10	2	2	0	0	2	2	13	11
Washington	19	15	28.5%	0	0	19	15	0	0	0	0	3	2	0	0	3	2	0	NM	0	0	0	NM	16	12
Pacific Noncontiguous	117	111	5.0%	21	19	96	92	3	5	17	14	39	35	0	0	39	35	0	0	0	0	0	0	58	58
Alaska	0	0	60.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	117	111	4.9%	21	19	96	92	3	5	17	14	38	34	0	0	38	34	0	0	0	0	0	0	57	58
U.S. Total	9,591	7,573	26.6%	6,572	5,093	3,018	2,480	530	314	5,961	4,720	1,060	843	71	55	990	788	278	251	11	5	267	246	1,761	1,446

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector						Commercial Sector						Industrial Sector						Residential Sector	
				Electric Utilities		Independent Power Producers																	
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	3,162	2,275	39.0%	1,114	688	2,048	1,587	50	43	1,057	639	1,128	826	6	5	1,122	821	84	70	2	1	82	69	843	697
Connecticut	440	322	36.5%	82	29	358	293	2	3	79	25	138	112	NM	1	138	112	18	15	NM	0	18	15	202	167
Maine	49	33	50.1%	9	4	40	29	0	0	9	4	14	10	0	0	14	10	0	0	0	0	0	0	26	19
Massachusetts	2,307	1,655	39.4%	896	572	1,410	1,083	13	11	877	556	885	637	5	4	880	633	59	50	2	1	57	49	474	400
New Hampshire	79	63	25.3%	0	0	79	63	0	0	0	0	23	19	0	0	23	19	5	4	0	0	5	4	51	40
Rhode Island	91	48	90.7%	27	10	64	37	0	0	27	10	34	18	0	0	34	18	0	0	0	0	0	0	31	19
Vermont	197	155	27.4%	100	73	97	82	34	30	66	43	35	29	0	0	35	29	2	1	0	0	2	1	60	51
Middle Atlantic	4,041	3,151	28.3%	1,250	852	2,791	2,298	70	58	1,032	674	1,387	1,148	134	109	1,253	1,039	160	136	15	12	145	124	1,393	1,135
New Jersey	2,312	1,858	24.5%	914	669	1,399	1,189	70	58	713	504	826	729	123	101	702	628	98	79	8	6	90	73	606	488
New York	1,360	985	38.1%	271	132	1,090	853	0	0	267	129	446	314	4	3	442	310	13	10	0	0	13	10	635	533
Pennsylvania	369	308	19.6%	66	51	303	257	0	0	52	41	115	105	7	4	108	101	50	47	7	6	43	41	152	115
East North Central	924	613	50.8%	569	369	355	244	197	108	364	257	226	148	7	2	219	146	20	16	2	1	18	15	117	84
Illinois	110	77	43.6%	44	37	66	39	2	1	39	36	46	25	NM	0	43	25	1	0	0	0	1	0	23	14
Indiana	340	228	48.8%	273	205	67	23	106	61	167	144	44	11	0	0	44	11	2	1	0	0	2	1	21	11
Michigan	172	88	94.8%	113	40	58	48	81	40	32	0	30	25	0	0	30	25	1	1	0	0	1	1	27	23
Ohio	215	166	29.2%	105	72	109	94	8	6	93	63	84	72	3	2	81	70	6	6	2	1	5	5	24	19
Wisconsin	88	54	64.1%	34	14	54	40	0	0	33	14	22	15	NM	0	22	15	10	8	0	0	10	8	23	17
West North Central	1,389	761	82.6%	1,049	495	340	266	17	8	1,031	486	168	139	1	1	167	137	13	7	0	0	13	7	159	122
Iowa	101	66	54.1%	12	3	89	62	10	3	NM	0	56	39	0	0	56	39	3	2	0	0	3	2	30	21
Kansas	25	15	69.5%	6	3	19	11	NM	1	5	2	7	4	0	0	7	4	0	0	0	0	0	0	12	8
Minnesota	990	482	105.6%	931	440	60	42	3	2	928	438	22	18	0	0	22	18	7	3	0	0	7	3	31	21
Missouri	240	182	31.9%	76	37	164	145	3	2	71	34	81	77	1	1	79	76	3	1	0	0	3	1	82	69
Nebraska	30	14	112.3%	23	11	7	4	0	0	23	11	3	1	0	0	3	1	0	0	0	0	0	0	4	2
North Dakota	0	0	4.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	2	4.0%	NM	2	1	1	0	0	NM	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	11,247	6,708	67.7%	9,631	5,458	1,616	1,249	2,034	895	7,486	4,478	575	476	107	85	467	391	218	171	NM	1	215	171	934	688
Delaware	124	97	28.1%	45	32	79	65	5	4	38	27	24	21	NM	1	23	20	6	4	0	0	6	4	50	42
District of Columbia	49	36	37.8%	0	0	49	36	0	0	0	0	30	20	0	0	30	20	0	0	0	0	0	0	20	16
Florida	1,924	675	184.9%	1,639	479	286	196	1,328	424	303	53	79	67	5	2	74	65	11	7	NM	1	8	6	204	125
Georgia	1,748	1,602	9.1%	1,558	1,448	190	154	220	185	1,335	1,261	26	23	3	2	24	21	154	122	0	0	154	122	12	11
Maryland	935	716	30.6%	306	190	629	526	7	6	293	179	175	151	6	5	169	146	27	24	0	0	27	24	433	356
North Carolina	5,155	3,372	52.9%	5,010	3,241	145	131	330	261	4,588	2,905	173	155	92	76	81	80	5	5	0	0	5	5	59	46
South Carolina	605	122	394.6%	435	33	170	90	0	0	435	33	42	21	0	0	42	21	15	8	0	0	15	8	112	60
Virginia	700	81	764.1%	638	36	62	45	143	15	494	21	22	17	0	0	22	17	1	0	0	0	1	0	39	28
West Virginia	7	6	21.6%	0	0	7	6	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	5	4
East South Central	779	226	244.1%	676	134	102	92	67	20	600	113	74	66	4	2	70	64	6	1	NM	0	1	1	32	27
Alabama	288	68	325.1%	281	62	8	6	30	8	251	54	5	4	0	0	5	4	0	0	0	0	0	0	2	2
Kentucky	62	30	103.8%	40	13	22	17	38	12	NM	0	13	11	0	0	13	11	0	0	0	0	0	0	9	7
Mississippi	248	34	625.6%	240	27	8	7	0	0	240	27	5	4	0	0	5	4	0	0	0	0	0	0	3	2
Tennessee	181	94	92.2%	116	32	65	62	0	0	107	31	51	47	4	2	47	45	5	0	NM	0	0	0	18	16
West South Central	3,246	1,973	64.5%	2,579	1,499	668	474	56	28	2,521	1,470	148	101	1	1	147	100	1	0	0	0	1	0	520	374
Arkansas	167	28	493.9%	152	21	15	7	NM	1	151	20	5	3	0	0	5	3	1	0	0	0	1	0	9	4
Louisiana	160	142	12.6%	NM	2	158	140	NM	2	0	0	10	6	0	0	10	6	0	0	0	0	0	0	148	135
Oklahoma	56	26	111.9%	48	22	8	4	48	22	0	0	3	1	0	0	3	1	0	0	0	0	0	0	5	3
Texas	2,864	1,777	61.2%	2,377	1,454	487	324	NM	3	2,371	1,450	130	92	1	1	129	91	0	0	0	0	0	0	358	233
Mountain	12,926	11,421	13.2%	10,135	9,104	2,791	2,317	821	645	9,230	8,388	910	830	82	70	828	760	45	37	2	2	44	36	1,920	1,521
Arizona	4,828	4,283	12.7%	3,274	2,979	1,554	1,303	601	434	2,656	2,529	490	457	17	17	473	440	14	11	0	0	14	11	1,067	852
Colorado	1,197	1,054	13.5%	784	683	413	371	NM	1	766	673	168	158	13	9	154	149	2	1	0	0	2	1	257	221
Idaho	423	348	21.4%	401	337	22	11	0	0	401	337	4	3	0	0	4	3	1	0	0	0	1	0	18	8
Montana	42	18	133.3%	28	7	14	11	0	0	28	7	4	3	0	0	4	3	0	0	0	0	0	0	10	8
Nevada	3,468	2,943	17.8%	3,132	2,654	336	288	30	30	3,048	2,578	125	114	52	44	73	70	23	19	2	2	21	17	241	202
New Mexico	1,111	989	12.4%	933	852	178	137	186	180	748	672	63	52	0	0	63	52	1	1	0	0	1	1	114	84
Utah	1,854	1,783	4.0%	1,584	1,590	271	193	0	0	1,584	1,590	55	43	0	0	55	43	6	5	0	0	6	5	210	145
Wyoming	4	3	34.1%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Pacific Contiguous	27,380	23,027	18.9%	18,038	15,486	9,343	7,541	395	327	17,496	15,063	2,423	1,727	110	84	2,313	1,643	1,346	1,235	37	12	1,309	1,223	5,721	4,675
California	26,700	22,682	17.7%	17,620	15,361	9,080	7,322	390	322	17,084	14,942	2,341	1,654	110	84	2,232	1,570	1,334	1,224	37	12	1,298	1,212	5,551	4,540
Oregon	568	258	120.5%	417	125	152	133	5	4	412	121	64	59	0	0	64	59	11	11	0	0	11	11	77	63
Washington	112	87	28.3%	0	0	111	87	0	0	0	0	18	14	0	0	18	14	0	0	0	0	0	0	93	72
Pacific Noncontiguous	858	787	9.1%	146	114	712	673	25	31	121	83	280	248	0	0	280	248	2	2	0	0	2	2	431	423
Alaska	2	2	49.8%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Hawaii	856	785	9.0%	146	114	710	671	25	31	121	83	279	247	0	0	279	247	2	2	0	0	2	2	429	422
U.S. Total	65,953	50,942	29.5%	45,188	34,200	20,766	16,742	3,732	2,163	40,938	31,648	7,318	5,708	452	360	6,865	5,349	1,896	1,676	65	29	1,831	1,647	12,070	9,746

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	6	4	40.7%	6	4	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	6	4	40.7%	6	4	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	131	86	52.7%	0	0	131	86	0	0	0	0
Arizona	87	64	36.4%	0	0	87	64	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	44	22	99.4%	0	0	44	22	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	272	251	8.4%	0	0	272	251	0	0	0	0
California	272	251	8.4%	0	0	272	251	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	409	341	20.0%	6	4	403	337	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

by State, by Sector, Year-to-Date through August 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	40	7	506.0%	40	7	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	40	7	506.0%	40	7	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	787	625	25.8%	0	0	787	625	0	0	0	0
Arizona	576	516	11.7%	0	0	576	516	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	210	109	92.5%	0	0	210	109	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,800	1,720	4.6%	0	0	1,800	1,720	0	0	0	0
California	1,800	1,720	4.6%	0	0	1,800	1,720	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	2,627	2,352	11.7%	40	7	2,587	2,345	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,371	496,192	178,047	111	3,021
2017	663,911	484,389	176,643	95	2,783
Year 2016					
January	61,983	45,395	16,319	12	258
February	50,516	37,538	12,717	13	248
March	39,864	30,983	8,616	13	252
April	39,065	28,614	10,238	7	206
May	45,032	33,712	11,064	6	249
June	63,186	46,191	16,721	7	266
July	74,132	53,946	19,894	7	285
August	73,798	53,681	19,827	8	282
Sept	62,335	44,665	17,407	8	254
October	54,537	39,319	14,974	8	237
November	48,076	35,090	12,758	10	218
December	64,847	47,058	17,512	12	266
Year 2017					
January	63,460	46,708	16,471	11	270
February	47,985	35,491	12,240	9	245
March	48,840	35,655	12,926	9	250
April	44,279	31,403	12,656	6	214
May	50,898	37,373	13,294	6	224
June	58,852	43,744	14,881	6	221
July	69,769	51,971	17,560	7	230
August	65,761	48,954	16,574	7	227
Sept	54,713	39,390	15,098	8	218
October	50,015	36,190	13,591	7	227
November	50,882	35,778	14,873	8	222
December	58,457	41,733	16,479	9	236
Year 2018					
January	64,517	47,706	16,524	12	274
February	45,655	33,933	11,471	9	243
March	44,388	32,273	11,864	8	243
April	40,554	30,358	9,980	6	210
May	47,469	35,222	12,011	6	230
June	56,030	42,467	13,338	6	219
July	63,805	48,286	15,283	7	229
August	63,710	47,867	15,612	9	222
Year to Date					
2016	447,576	330,061	115,396	73	2,046
2017	449,843	331,299	116,602	62	1,880
2018	426,128	318,113	106,083	63	1,870
Rolling 12 Months Ending in August					
2017	679,638	497,430	179,253	101	2,855
2018	640,196	471,203	166,125	95	2,773

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	16,586	2,979	1,336	572	11,700
2017	14,667	2,802	1,158	515	10,192
Year 2016					
January	1,624	288	133	63	1,140
February	1,503	277	130	62	1,034
March	1,433	232	117	61	1,023
April	1,215	204	103	39	870
May	1,264	215	90	31	929
June	1,353	241	97	39	976
July	1,472	278	118	39	1,036
August	1,434	270	112	42	1,010
Sept	1,257	216	97	41	903
October	1,260	224	105	42	889
November	1,256	233	99	50	875
December	1,515	301	136	63	1,015
Year 2017					
January	1,470	300	117	59	995
February	1,198	213	104	48	832
March	1,292	238	106	57	892
April	1,129	221	78	36	794
May	1,137	209	75	34	819
June	1,153	211	84	34	823
July	1,202	254	96	40	812
August	1,214	256	100	36	823
Sept	1,103	207	86	38	773
October	1,223	223	94	35	871
November	1,260	263	98	44	855
December	1,285	208	119	56	903
Year 2018					
January	1,404	235	141	58	970
February	1,266	215	139	45	868
March	1,242	205	96	43	897
April	1,107	183	80	39	805
May	1,097	171	79	35	811
June	1,089	192	91	36	770
July	1,068	201	81	40	746
August	1,032	195	77	41	720
Year to Date					
2016	11,298	2,006	899	376	8,018
2017	9,795	1,902	761	343	6,789
2018	9,305	1,597	784	336	6,588
Rolling 12 Months Ending in August					
2017	15,083	2,875	1,198	539	10,471
2018	14,177	2,497	1,181	509	9,990

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	693,958	499,172	179,383	683	14,720
2017	678,578	487,192	177,801	610	12,975
Year 2016					
January	63,607	45,683	16,452	75	1,397
February	52,019	37,815	12,846	75	1,282
March	41,297	31,215	8,733	74	1,275
April	40,280	28,818	10,341	46	1,076
May	46,297	33,928	11,154	37	1,178
June	64,539	46,432	16,818	46	1,243
July	75,604	54,224	20,012	46	1,321
August	75,232	53,951	19,938	49	1,292
Sept	63,592	44,881	17,504	50	1,157
October	55,798	39,543	15,079	50	1,126
November	49,331	35,322	12,857	60	1,093
December	66,362	47,359	17,648	75	1,280
Year 2017					
January	64,930	47,008	16,588	71	1,264
February	49,183	35,705	12,344	58	1,077
March	50,132	35,893	13,032	66	1,141
April	45,408	31,624	12,735	42	1,008
May	52,034	37,582	13,370	39	1,043
June	60,005	43,955	14,965	40	1,045
July	70,971	52,225	17,656	47	1,042
August	66,975	49,209	16,673	43	1,050
Sept	55,817	39,596	15,184	45	991
October	51,238	36,413	13,686	42	1,098
November	52,142	36,042	14,971	52	1,077
December	59,743	41,940	16,598	66	1,139
Year 2018					
January	65,921	47,941	16,665	70	1,245
February	46,922	34,148	11,609	54	1,111
March	45,630	32,478	11,961	51	1,140
April	41,661	30,541	10,059	45	1,015
May	48,566	35,393	12,091	41	1,041
June	57,119	42,659	13,430	42	988
July	64,873	48,487	15,364	47	975
August	64,742	48,061	15,688	49	943
Year to Date					
2016	458,874	332,067	116,295	448	10,064
2017	459,638	333,201	117,363	405	8,670
2018	435,433	319,709	106,867	399	8,457
Rolling 12 Months Ending in August					
2017	694,721	500,305	180,450	640	13,326
2018	654,373	473,700	167,306	604	12,763

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2008-August 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	22,405	16,137	5,624	108	536
2017	21,696	15,567	5,461	191	476
Year 2016					
January	2,472	1,727	685	12	48
February	2,230	1,474	698	12	46
March	1,495	1,096	355	4	40
April	1,421	1,055	320	8	38
May	1,662	1,212	386	8	56
June	1,693	1,275	364	7	48
July	2,287	1,711	514	11	52
August	2,231	1,644	537	10	39
Sept	1,620	1,128	441	7	44
October	1,629	1,156	423	7	43
November	1,672	1,249	372	11	40
December	1,995	1,410	530	12	43
Year 2017					
January	1,937	1,436	433	20	48
February	1,542	1,143	345	13	41
March	1,658	1,342	262	15	40
April	1,479	1,153	281	9	36
May	1,713	1,290	373	15	35
June	1,763	1,313	403	13	34
July	1,592	1,173	369	16	34
August	1,710	1,267	390	19	34
Sept	1,623	1,199	372	14	38
October	1,674	1,303	319	13	39
November	1,591	1,170	362	15	45
December	3,414	1,779	1,551	31	52
Year 2018					
January	9,044	4,359	4,541	66	77
February	1,369	1,090	219	15	44
March	1,409	1,058	297	12	42
April	1,529	1,128	349	16	37
May	1,780	1,297	421	20	42
June	1,826	1,343	421	19	43
July	1,689	1,166	439	28	56
August	1,745	1,257	425	25	38
Year to Date					
2016	15,490	11,193	3,859	72	366
2017	13,394	10,117	2,857	118	302
2018	20,390	12,698	7,111	201	379
Rolling 12 Months Ending in August					
2017	20,309	15,061	4,621	155	472
2018	28,692	18,149	9,715	274	554

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,277	68	245	245	1,719
2017	2,012	72	220	238	1,482
Year 2016					
January	231	12	24	43	153
February	316	17	39	27	233
March	178	3	28	7	140
April	174	3	16	17	138
May	198	3	18	14	163
June	181	6	13	14	149
July	185	2	12	28	142
August	153	3	15	18	117
Sept	143	3	14	9	117
October	174	3	18	9	144
November	167	4	14	35	113
December	178	9	33	26	110
Year 2017					
January	199	13	37	36	113
February	137	9	17	24	87
March	152	5	8	26	113
April	140	3	10	12	117
May	137	3	12	15	107
June	120	4	13	10	92
July	117	3	12	12	89
August	119	3	11	15	91
Sept	134	3	18	11	102
October	142	3	16	13	110
November	242	4	19	19	200
December	373	19	47	46	262
Year 2018					
January	716	49	107	108	452
February	147	5	10	26	107
March	165	4	13	22	126
April	147	4	12	19	113
May	164	3	17	17	126
June	221	5	14	16	187
July	173	3	11	30	129
August	195	4	39	25	128
Year to Date					
2016	1,616	49	165	166	1,235
2017	1,121	43	120	150	808
2018	1,931	76	223	263	1,369
Rolling 12 Months Ending in August					
2017	1,783	62	200	228	1,293
2018	2,822	105	323	351	2,042

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	24,682	16,205	5,869	352	2,255
2017	23,708	15,640	5,681	429	1,958
Year 2016					
January	2,702	1,739	709	55	200
February	2,546	1,491	737	38	279
March	1,673	1,099	383	12	180
April	1,594	1,058	337	24	175
May	1,860	1,216	403	22	219
June	1,875	1,281	377	21	197
July	2,472	1,713	527	38	194
August	2,384	1,647	552	28	156
Sept	1,763	1,131	455	16	161
October	1,803	1,159	441	16	187
November	1,838	1,254	386	46	153
December	2,173	1,419	563	37	154
Year 2017					
January	2,136	1,450	470	56	161
February	1,679	1,152	362	37	128
March	1,810	1,346	271	40	152
April	1,620	1,155	291	21	153
May	1,850	1,293	385	30	142
June	1,883	1,317	416	23	126
July	1,709	1,177	381	28	123
August	1,829	1,270	400	33	125
Sept	1,756	1,202	390	24	140
October	1,816	1,306	335	26	149
November	1,833	1,174	381	34	245
December	3,787	1,797	1,598	77	314
Year 2018					
January	9,760	4,408	4,648	175	530
February	1,516	1,095	229	40	151
March	1,574	1,062	310	35	168
April	1,677	1,132	361	35	150
May	1,944	1,300	438	37	169
June	2,048	1,348	435	36	229
July	1,862	1,169	450	58	186
August	1,940	1,260	463	50	166
Year to Date					
2016	17,106	11,243	4,024	238	1,601
2017	14,515	10,160	2,976	268	1,110
2018	22,321	12,774	7,334	465	1,748
Rolling 12 Months Ending in August					
2017	22,092	15,123	4,821	383	1,765
2018	31,514	18,254	10,039	626	2,596

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

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,253	3,427	591	2	233
2017	3,490	2,731	542	3	214
Year 2016					
January	342	302	16	0	23
February	330	271	39	0	19
March	362	283	63	0	17
April	382	325	43	0	14
May	370	296	52	0	23
June	380	308	52	0	21
July	400	324	56	0	20
August	419	337	61	0	21
Sept	376	311	49	0	16
October	250	171	61	0	18
November	307	239	46	0	21
December	336	260	55	0	20
Year 2017					
January	368	301	51	0	15
February	277	217	44	0	15
March	265	214	31	0	20
April	168	110	41	0	16
May	329	264	49	0	16
June	350	282	48	0	20
July	344	271	51	0	22
August	300	226	52	0	22
Sept	276	209	50	0	16
October	228	171	40	0	18
November	293	234	40	0	18
December	292	231	44	0	16
Year 2018					
January	349	296	38	0	15
February	275	234	30	0	10
March	245	198	35	0	12
April	246	193	37	0	15
May	161	140	8	0	13
June	312	269	24	0	19
July	346	284	41	0	21
August	332	272	39	0	20
Year to Date					
2016	2,985	2,445	381	1	158
2017	2,400	1,886	367	2	146
2018	2,267	1,886	253	1	126
Rolling 12 Months Ending in August					
2017	3,668	2,867	578	2	221
2018	3,356	2,732	428	2	195

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,099	6	113	9	971
2017	977	11	115	15	836
Year 2016					
January	86	1	11	2	73
February	95	0	10	2	83
March	85	0	11	2	72
April	73	1	7	0	66
May	96	0	7	0	89
June	100	0	9	0	91
July	101	1	9	1	91
August	101	1	10	0	91
Sept	75	1	10	0	64
October	92	1	11	0	80
November	99	0	10	0	89
December	95	1	10	2	83
Year 2017					
January	81	0	10	2	70
February	69	0	10	1	58
March	90	1	10	2	77
April	74	0	10	1	64
May	78	1	10	1	66
June	91	1	9	1	80
July	86	1	10	0	75
August	90	2	9	2	77
Sept	76	1	9	2	64
October	86	1	9	1	74
November	80	1	9	1	69
December	76	1	10	2	63
Year 2018					
January	72	1	9	2	60
February	63	1	8	2	53
March	62	1	9	1	50
April	78	1	10	1	66
May	64	1	6	0	57
June	66	1	1	0	63
July	71	1	9	0	61
August	69	1	9	0	59
Year to Date					
2016	737	4	72	7	654
2017	660	6	78	9	567
2018	544	9	61	5	469
Rolling 12 Months Ending in August					
2017	1,021	8	119	11	883
2018	862	13	98	11	739

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,352	3,433	705	10	1,204
2017	4,467	2,742	657	17	1,050
Year 2016					
January	427	302	27	3	96
February	425	272	49	2	102
March	447	283	74	2	89
April	455	326	50	0	80
May	466	296	58	0	112
June	480	308	60	0	111
July	502	325	65	1	111
August	520	337	71	0	112
Sept	451	311	59	0	80
October	342	172	72	0	99
November	406	240	56	0	110
December	431	261	65	2	103
Year 2017					
January	449	301	61	2	85
February	347	218	54	1	74
March	355	215	41	2	97
April	242	110	51	1	80
May	406	265	59	1	82
June	441	283	57	1	100
July	430	272	60	0	98
August	390	228	61	2	99
Sept	352	211	60	2	80
October	314	172	49	2	92
November	373	235	49	1	87
December	368	233	54	2	80
Year 2018					
January	421	297	47	2	75
February	338	235	38	2	63
March	307	199	44	2	63
April	323	195	47	1	81
May	225	141	14	0	70
June	378	270	26	0	82
July	417	285	49	0	82
August	401	273	49	0	79
Year to Date					
2016	3,722	2,449	453	8	812
2017	3,060	1,892	445	11	712
2018	2,811	1,895	314	6	595
Rolling 12 Months Ending in August					
2017	4,690	2,876	697	13	1,104
2018	4,218	2,745	526	13	933

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,170,110	5,018,894	4,571,375	46,304	533,537
2017	9,507,760	4,754,883	4,161,987	50,060	540,830
Year 2016					
January	786,040	390,246	347,970	3,499	44,325
February	702,082	352,877	304,311	3,344	41,550
March	758,344	377,953	333,147	3,493	43,751
April	734,600	362,063	327,542	3,278	41,717
May	819,345	407,178	365,297	3,620	43,251
June	985,722	497,616	439,024	4,109	44,973
July	1,157,589	569,028	535,036	5,188	48,337
August	1,168,337	564,916	549,161	5,384	48,875
Sept	932,041	451,574	431,159	4,223	45,086
October	760,610	368,087	345,831	3,675	43,017
November	679,004	333,973	298,069	2,944	44,018
December	686,396	343,384	294,829	3,547	44,637
Year 2017					
January	679,456	337,365	291,293	4,212	46,587
February	587,375	291,892	250,059	3,763	41,661
March	690,237	350,941	290,725	4,044	44,527
April	646,952	331,856	268,401	3,537	43,158
May	720,458	374,380	298,341	3,820	43,917
June	872,928	436,021	386,492	4,400	46,015
July	1,104,716	552,301	498,292	4,942	49,181
August	1,043,414	516,896	474,421	4,803	47,295
Sept	877,808	433,254	397,947	4,400	42,206
October	791,673	385,327	358,763	4,105	43,478
November	686,346	340,195	298,079	3,776	44,297
December	806,395	404,455	349,174	4,259	48,508
Year 2018					
January	803,870	419,727	332,226	4,156	47,761
February	717,459	356,653	314,825	3,973	42,008
March	771,201	387,856	336,457	4,116	42,772
April	726,677	369,327	309,622	3,909	43,820
May	872,078	456,403	367,132	4,107	44,437
June	972,168	510,433	411,722	4,434	45,579
July	1,252,609	638,618	560,343	5,137	48,511
August	1,220,963	608,370	557,994	5,166	49,433
Year to Date					
2016	7,112,059	3,521,877	3,201,487	31,915	356,779
2017	6,345,538	3,191,652	2,758,024	33,521	362,341
2018	7,337,025	3,747,386	3,190,321	34,997	364,320
Rolling 12 Months Ending in August					
2017	9,403,589	4,688,668	4,127,912	47,909	539,099
2018	10,499,247	5,310,618	4,594,284	51,536	542,809

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	1,151,866	38,096	356,905	80,943	675,922
2017	1,558,826	38,740	309,982	493,553	716,551
Year 2016					
January	102,014	3,434	32,304	7,160	59,117
February	92,405	3,264	29,348	6,354	53,439
March	95,161	3,002	30,664	6,298	55,197
April	88,634	2,286	27,002	6,104	53,241
May	92,471	2,888	29,069	6,096	54,418
June	96,618	3,649	30,019	6,907	56,043
July	102,867	3,805	32,099	8,142	58,821
August	105,025	3,723	33,436	8,377	59,489
Sept	95,330	2,973	29,581	6,850	55,926
October	92,360	2,740	27,138	6,125	56,357
November	90,321	2,812	27,191	5,773	54,544
December	98,660	3,520	29,054	6,758	59,328
Year 2017					
January	127,084	3,704	27,262	35,582	60,537
February	112,941	3,216	23,651	31,076	54,998
March	124,225	3,489	27,021	35,064	58,651
April	116,153	2,985	23,807	33,697	55,663
May	122,901	3,093	24,244	37,919	57,644
June	135,248	2,722	25,799	48,279	58,448
July	153,446	3,441	27,792	59,383	62,830
August	148,112	3,216	27,487	56,164	61,245
Sept	131,476	2,980	25,078	42,918	60,501
October	127,664	3,046	25,407	38,592	60,619
November	120,505	3,119	24,763	33,275	59,348
December	139,071	3,729	27,671	41,603	66,067
Year 2018					
January	143,718	3,580	29,041	44,014	67,082
February	129,472	3,168	26,534	39,844	59,926
March	135,672	3,311	28,121	40,356	63,885
April	128,365	2,981	25,434	39,362	60,588
May	129,536	3,149	26,428	40,286	59,673
June	132,500	3,535	26,778	41,046	61,139
July	141,471	4,154	30,260	43,383	63,675
August	141,825	4,146	29,291	44,204	64,184
Year to Date					
2016	775,194	26,051	243,940	55,437	449,767
2017	1,040,110	25,866	207,062	337,166	470,016
2018	1,082,559	28,023	221,886	332,496	500,154
Rolling 12 Months Ending in August					
2017	1,416,781	37,912	320,027	362,671	696,171
2018	1,601,275	40,897	324,806	488,883	746,689

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,321,975	5,056,990	4,928,280	127,246	1,209,459
2017	11,066,586	4,793,623	4,471,969	543,613	1,257,381
Year 2016					
January	888,054	393,680	380,273	10,658	103,442
February	794,487	356,141	333,659	9,697	94,990
March	853,505	380,955	363,811	9,791	98,949
April	823,234	364,349	354,544	9,383	94,958
May	911,816	410,066	394,365	9,716	97,669
June	1,082,340	501,265	469,043	11,016	101,016
July	1,260,455	572,833	567,135	13,330	107,158
August	1,273,362	568,640	582,596	13,761	108,365
Sept	1,027,371	454,547	460,740	11,073	101,012
October	852,970	370,827	372,969	9,800	99,374
November	769,325	336,785	325,260	8,716	98,563
December	785,056	346,904	323,883	10,305	103,965
Year 2017					
January	806,541	341,068	318,555	39,794	107,124
February	700,316	295,109	273,710	34,839	96,659
March	814,462	354,430	317,746	39,109	103,177
April	763,105	334,841	292,208	37,235	98,821
May	843,360	377,474	322,585	41,739	101,561
June	1,008,176	438,743	412,291	52,679	104,462
July	1,258,163	555,742	526,084	64,326	112,011
August	1,191,526	520,111	501,908	60,967	108,540
Sept	1,009,284	436,234	423,025	47,317	102,707
October	919,337	388,373	384,170	42,697	104,097
November	806,851	343,314	322,841	37,051	103,645
December	945,466	408,184	376,845	45,861	114,576
Year 2018					
January	947,588	423,307	361,266	48,171	114,844
February	846,931	359,821	341,359	43,817	101,934
March	906,873	391,167	364,578	44,472	106,656
April	855,042	372,307	335,056	43,271	104,408
May	1,001,614	459,552	393,559	44,392	104,110
June	1,104,667	513,969	438,500	45,480	106,718
July	1,394,080	642,771	590,603	48,519	112,186
August	1,362,788	612,516	587,285	49,370	113,617
Year to Date					
2016	7,887,253	3,547,928	3,445,427	87,352	806,546
2017	7,385,648	3,217,518	2,965,087	370,687	832,357
2018	8,419,583	3,775,410	3,412,207	367,493	864,474
Rolling 12 Months Ending in August					
2017	10,820,370	4,726,580	4,447,939	410,581	1,235,270
2018	12,100,522	5,351,515	4,919,090	540,419	1,289,498

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	273,557	24,280	224,993	20,445	3,839
2017	278,112	25,074	229,050	20,121	3,866
Year 2016					
January	22,612	2,036	18,360	1,865	351
February	21,859	2,088	17,744	1,705	323
March	23,337	2,187	19,021	1,786	343
April	22,556	2,080	18,805	1,340	331
May	23,744	2,120	19,554	1,717	354
June	22,668	1,896	18,683	1,768	320
July	23,052	1,950	19,047	1,734	321
August	23,038	2,011	18,978	1,726	324
Sept	21,757	2,010	17,792	1,678	278
October	20,377	1,922	16,583	1,610	263
November	24,047	1,941	20,036	1,762	307
December	24,510	2,041	20,392	1,753	324
Year 2017					
January	25,272	2,182	20,948	1,784	358
February	21,912	2,167	17,878	1,529	337
March	24,177	2,303	19,774	1,742	359
April	22,941	2,145	18,844	1,620	332
May	23,879	2,202	19,651	1,731	294
June	23,091	1,921	19,163	1,670	336
July	22,896	1,983	18,932	1,702	279
August	22,923	2,030	18,919	1,668	305
Sept	22,102	1,851	18,287	1,672	292
October	22,063	2,037	18,243	1,465	318
November	22,870	2,105	18,715	1,728	322
December	23,986	2,148	19,695	1,810	333
Year 2018					
January	25,148	2,570	20,492	1,782	305
February	23,593	2,396	19,225	1,661	311
March	25,276	2,604	20,497	1,847	327
April	23,720	2,353	19,467	1,593	307
May	23,568	2,195	19,632	1,474	267
June	23,693	2,007	19,930	1,504	252
July	23,947	2,006	20,218	1,492	232
August	24,698	2,059	20,932	1,494	214
Year to Date					
2016	182,866	16,367	150,191	13,641	2,666
2017	187,090	16,933	154,111	13,445	2,601
2018	193,644	18,188	160,393	12,847	2,215
Rolling 12 Months Ending in August					
2017	277,781	24,847	228,913	20,249	3,773
2018	284,665	26,329	235,332	19,523	3,481

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,163	3	2,339	1,034	788
2017	3,940	2	1,948	1,099	891
Year 2016					
January	352	0	202	84	66
February	340	0	189	86	65
March	358	0	196	86	75
April	355	0	201	88	66
May	356	0	194	90	72
June	344	0	193	85	66
July	335	0	181	87	66
August	332	0	181	82	68
Sept	327	0	187	81	59
October	301	0	157	87	56
November	378	0	227	86	66
December	387	0	230	91	65
Year 2017					
January	352	0	171	94	87
February	329	0	156	92	81
March	353	0	177	92	84
April	346	0	153	107	87
May	299	0	134	85	80
June	329	0	165	89	75
July	312	0	176	85	51
August	348	0	172	98	78
Sept	330	0	169	98	62
October	319	0	170	93	56
November	298	0	140	85	73
December	324	0	165	81	77
Year 2018					
January	411	1	259	68	83
February	400	1	238	79	82
March	435	1	262	82	90
April	351	1	179	85	87
May	272	1	127	71	73
June	248	1	135	46	67
July	264	1	126	76	62
August	282	1	138	82	61
Year to Date					
2016	2,771	2	1,538	689	542
2017	2,670	1	1,303	742	623
2018	2,662	6	1,463	589	604
Rolling 12 Months Ending in August					
2017	4,062	2	2,104	1,087	868
2018	3,933	7	2,107	946	872

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	277,720	24,283	227,332	21,479	4,626
2017	282,051	25,076	230,998	21,220	4,757
Year 2016					
January	22,964	2,036	18,562	1,949	417
February	22,200	2,088	17,933	1,791	388
March	23,694	2,187	19,217	1,873	417
April	22,911	2,081	19,005	1,428	397
May	24,100	2,120	19,748	1,807	425
June	23,012	1,896	18,876	1,853	386
July	23,387	1,950	19,229	1,822	386
August	23,370	2,011	19,159	1,808	392
Sept	22,084	2,010	17,978	1,759	337
October	20,678	1,922	16,740	1,697	319
November	24,425	1,941	20,263	1,848	373
December	24,897	2,042	20,622	1,845	388
Year 2017					
January	25,625	2,182	21,119	1,878	446
February	22,241	2,167	18,034	1,621	419
March	24,530	2,303	19,951	1,834	442
April	23,287	2,146	18,996	1,727	418
May	24,178	2,202	19,785	1,816	374
June	23,419	1,921	19,329	1,759	411
July	23,208	1,983	19,108	1,786	330
August	23,271	2,030	19,092	1,766	383
Sept	22,431	1,851	18,456	1,771	354
October	22,382	2,037	18,413	1,558	374
November	23,168	2,105	18,855	1,813	395
December	24,310	2,149	19,860	1,891	410
Year 2018					
January	25,560	2,571	20,751	1,850	388
February	23,993	2,396	19,463	1,740	393
March	25,710	2,605	20,759	1,929	417
April	24,071	2,353	19,645	1,679	394
May	23,839	2,195	19,759	1,545	340
June	23,941	2,008	20,064	1,550	319
July	24,211	2,007	20,344	1,568	293
August	24,981	2,059	21,071	1,576	275
Year to Date					
2016	185,637	16,369	151,729	14,330	3,209
2017	189,760	16,935	155,414	14,187	3,224
2018	196,306	18,195	161,856	13,436	2,820
Rolling 12 Months Ending in August					
2017	281,843	24,849	231,017	21,335	4,641
2018	288,598	26,336	237,440	20,469	4,353

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, 2008-August 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,994	464	13,953	2,566	11
2017	16,348	422	13,381	2,537	8
Year 2016					
January	1,398	34	1,161	202	1
February	1,283	27	1,081	174	1
March	1,344	41	1,091	211	1
April	1,413	40	1,153	219	1
May	1,463	44	1,205	214	1
June	1,468	40	1,202	225	1
July	1,486	37	1,212	236	1
August	1,509	42	1,233	233	1
Sept	1,397	43	1,142	210	1
October	1,378	37	1,127	213	1
November	1,379	39	1,127	212	1
December	1,476	38	1,220	218	0
Year 2017					
January	1,434	35	1,194	205	0
February	1,244	19	1,034	191	0
March	1,330	36	1,091	204	0
April	1,288	35	1,044	209	0
May	1,410	36	1,147	226	1
June	1,421	38	1,175	207	1
July	1,440	41	1,172	226	1
August	1,453	47	1,182	223	1
Sept	1,321	41	1,072	207	1
October	1,317	33	1,065	218	1
November	1,311	30	1,074	207	1
December	1,378	32	1,132	214	1
Year 2018					
January	1,350	28	1,132	190	0
February	1,278	26	1,076	175	1
March	1,377	40	1,138	198	1
April	1,342	38	1,109	194	1
May	1,398	43	1,143	212	1
June	1,454	42	1,202	208	1
July	1,458	48	1,208	200	1
August	1,461	47	1,204	209	1
Year to Date					
2016	11,364	306	9,337	1,714	8
2017	11,020	286	9,038	1,692	5
2018	11,118	312	9,212	1,586	7
Rolling 12 Months Ending in August					
2017	16,650	443	13,654	2,544	8
2018	16,446	448	13,555	2,432	11

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	2,232	0	885	1,134	213
2017	2,124	0	814	1,102	208
Year 2016					
January	191	0	80	92	18
February	189	0	87	88	14
March	219	0	96	104	19
April	181	0	65	98	18
May	182	0	70	96	17
June	172	0	73	81	18
July	186	0	74	96	16
August	191	0	71	96	23
Sept	176	0	64	95	18
October	179	0	65	95	19
November	180	0	68	94	17
December	185	0	71	98	16
Year 2017					
January	203	0	72	111	20
February	171	0	64	94	12
March	187	0	75	93	19
April	173	0	69	86	18
May	182	0	69	96	18
June	185	0	68	101	16
July	185	0	72	97	17
August	196	0	77	97	22
Sept	154	0	63	74	17
October	155	0	59	78	18
November	166	0	64	88	15
December	168	0	63	88	17
Year 2018					
January	170	0	64	90	17
February	151	0	60	80	12
March	155	0	64	79	12
April	147	0	54	77	16
May	161	0	59	86	16
June	163	0	65	80	18
July	164	0	65	83	17
August	168	0	66	80	21
Year to Date					
2016	1,512	0	617	752	143
2017	1,482	0	565	775	142
2018	1,280	0	497	655	129
Rolling 12 Months Ending in August					
2017	2,202	0	833	1,157	212
2018	1,923	0	746	982	196

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	19,226	464	14,838	3,700	224
2017	18,473	422	14,195	3,639	216
Year 2016					
January	1,589	34	1,241	295	19
February	1,472	27	1,167	262	15
March	1,563	41	1,188	315	19
April	1,594	40	1,218	317	18
May	1,646	44	1,274	310	18
June	1,640	40	1,275	305	19
July	1,673	37	1,286	332	17
August	1,700	42	1,304	330	25
Sept	1,573	43	1,206	305	19
October	1,557	37	1,192	308	20
November	1,559	39	1,195	306	18
December	1,661	38	1,291	316	16
Year 2017					
January	1,637	35	1,266	316	20
February	1,415	19	1,098	286	12
March	1,517	36	1,165	297	19
April	1,461	35	1,113	294	18
May	1,592	36	1,215	322	19
June	1,606	38	1,243	309	17
July	1,625	41	1,244	323	18
August	1,649	47	1,259	320	23
Sept	1,475	41	1,135	281	18
October	1,472	33	1,124	295	19
November	1,477	30	1,138	295	15
December	1,546	32	1,195	301	18
Year 2018					
January	1,521	28	1,196	279	17
February	1,429	26	1,136	255	13
March	1,532	40	1,202	277	13
April	1,489	38	1,163	271	17
May	1,559	43	1,202	297	17
June	1,617	42	1,267	289	19
July	1,622	48	1,273	283	18
August	1,629	47	1,270	290	22
Year to Date					
2016	12,876	306	9,954	2,465	150
2017	12,502	286	9,603	2,467	146
2018	12,398	312	9,709	2,241	136
Rolling 12 Months Ending in August					
2017	18,852	443	14,487	3,702	220
2018	18,368	448	14,301	3,414	206

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	359,983	41,036	149,516	473	168,959
2017	363,971	42,806	151,877	460	168,828
Year 2016					
January	31,835	4,082	13,250	40	14,463
February	30,721	3,797	13,249	41	13,634
March	30,380	3,388	13,073	23	13,897
April	25,323	2,547	10,177	31	12,569
May	26,827	2,497	10,522	14	13,794
June	29,961	3,835	11,762	59	14,305
July	32,167	4,067	13,230	51	14,818
August	33,526	4,113	14,559	72	14,782
Sept	30,502	3,489	13,145	51	13,817
October	27,598	2,574	11,139	29	13,857
November	29,176	2,597	12,211	20	14,349
December	31,967	4,051	13,200	42	14,674
Year 2017					
January	31,111	4,492	12,653	56	13,910
February	28,404	3,584	11,989	50	12,781
March	31,284	4,210	13,448	26	13,601
April	27,497	3,136	11,066	34	13,261
May	28,273	2,799	11,614	43	13,817
June	30,264	3,180	12,592	38	14,454
July	32,600	3,942	13,505	41	15,112
August	33,336	3,803	14,249	41	15,244
Sept	28,574	2,090	13,001	15	13,469
October	28,951	3,387	11,782	33	13,748
November	30,458	3,608	12,600	41	14,210
December	33,219	4,575	13,378	43	15,222
Year 2018					
January	32,264	4,532	13,000	63	14,668
February	28,875	3,645	11,706	42	13,482
March	30,272	4,010	11,813	36	14,414
April	25,869	2,208	10,102	16	13,542
May	30,796	3,455	12,419	32	14,890
June	31,124	4,157	12,647	53	14,267
July	31,808	4,337	12,558	59	14,854
August	30,312	4,299	11,616	69	14,328
Year to Date					
2016	240,739	28,325	99,822	331	112,262
2017	242,769	29,146	101,116	328	112,179
2018	241,319	30,643	95,860	370	114,446
Rolling 12 Months Ending in August					
2017	362,012	41,858	150,810	470	168,875
2018	362,521	44,303	146,621	502	171,095

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2008-August 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	969,841	10,950	22,905	4,520	931,465
2017	1,036,427	11,656	22,986	4,522	997,263
Year 2016					
January	84,483	1,087	2,270	460	80,665
February	79,157	1,150	2,299	415	75,293
March	79,225	1,084	1,926	288	75,928
April	74,954	732	1,780	353	72,089
May	78,419	949	1,753	280	75,437
June	79,180	707	1,832	415	76,225
July	80,796	943	1,826	384	77,644
August	81,164	931	1,794	442	77,998
Sept	75,314	513	1,918	395	72,488
October	76,347	508	1,450	347	74,041
November	80,391	1,132	1,898	340	77,021
December	100,410	1,214	2,159	401	96,636
Year 2017					
January	90,099	1,206	2,090	525	86,278
February	79,451	1,037	1,879	430	76,104
March	87,759	1,170	2,113	299	84,176
April	82,426	1,044	1,548	295	79,539
May	84,129	716	1,623	301	81,490
June	85,459	1,007	1,641	322	82,490
July	89,160	683	1,963	355	86,159
August	90,434	989	2,010	365	87,071
Sept	81,960	931	2,032	233	78,763
October	86,217	893	1,972	402	82,950
November	87,430	902	1,929	473	84,126
December	91,903	1,079	2,186	524	88,115
Year 2018					
January	88,471	859	2,073	454	85,086
February	83,125	832	2,122	474	79,698
March	85,627	994	2,053	493	82,086
April	84,957	913	1,784	339	81,920
May	84,885	946	1,779	319	81,841
June	85,398	968	1,815	402	82,214
July	88,781	914	2,034	382	85,450
August	90,409	847	2,034	417	87,111
Year to Date					
2016	637,378	7,583	15,480	3,037	611,279
2017	688,916	7,851	14,866	2,891	663,308
2018	691,653	7,274	15,693	3,280	665,406
Rolling 12 Months Ending in August					
2017	1,021,379	11,218	22,292	4,374	983,495
2018	1,039,163	11,079	23,812	4,911	999,361

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

Table 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-August 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,262,675	29,150	148,198	1,410	1,083,917
2009	1,136,729	29,565	150,481	1,408	955,276
2010	1,225,571	40,167	155,429	1,338	1,028,637
2011	1,240,937	35,474	146,684	1,504	1,057,275
2012	1,273,500	32,723	157,468	1,427	1,081,882
2013	1,317,560	43,363	164,063	1,486	1,108,647
2014	1,377,629	54,478	196,775	4,727	1,121,648
2015	1,350,612	53,269	190,587	4,219	1,102,537
2016	1,329,824	51,986	172,421	4,993	1,100,424
2017	1,400,397	54,462	174,862	4,982	1,166,091
Year 2016					
January	116,318	5,169	15,520	500	95,128
February	109,878	4,947	15,548	456	88,928
March	109,606	4,471	14,999	311	89,825
April	100,276	3,279	11,956	384	84,657
May	105,246	3,446	12,275	294	89,231
June	109,140	4,542	13,594	474	90,530
July	112,964	5,010	15,056	435	92,462
August	114,690	5,044	16,353	514	92,780
Sept	105,816	4,002	15,063	446	86,306
October	103,946	3,083	12,589	376	87,898
November	109,567	3,729	14,108	360	91,370
December	132,377	5,265	15,360	443	111,310
Year 2017					
January	121,210	5,698	14,743	581	100,188
February	107,854	4,621	13,868	480	88,885
March	119,043	5,380	15,562	325	97,777
April	109,922	4,180	12,613	328	92,800
May	112,402	3,515	13,237	344	95,306
June	115,723	4,187	14,232	360	96,944
July	121,760	4,625	15,469	395	101,271
August	123,771	4,792	16,258	406	102,315
Sept	110,535	3,021	15,033	249	92,232
October	115,168	4,281	13,754	435	96,698
November	117,888	4,509	14,529	514	98,336
December	125,122	5,654	15,564	566	103,338
Year 2018					
January	120,735	5,391	15,073	517	99,754
February	112,000	4,477	13,828	516	93,179
March	115,899	5,004	13,866	528	96,501
April	110,825	3,122	11,886	356	95,462
May	115,681	4,401	14,198	351	96,731
June	116,522	5,124	14,462	455	96,481
July	120,589	5,251	14,592	441	100,304
August	120,721	5,146	13,650	486	101,439
Year to Date					
2016	878,118	35,908	115,302	3,367	723,541
2017	931,685	36,997	115,982	3,219	775,487
2018	932,972	37,917	111,553	3,650	779,852
Rolling 12 Months Ending in August					
2017	1,383,391	53,076	173,101	4,844	1,152,370
2018	1,401,685	55,382	170,434	5,413	1,170,456

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 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	20	1	NM	15	0	5	1	0	0	NM	0
Connecticut	4	0	--	0	0	4	0	0	0	0	0
Maine	1	1	10.0%	0	0	1	1	0	0	NM	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	15	0	NM	15	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,298	2,183	5.3%	0	0	2,293	2,173	0	0	5	10
New Jersey	50	44	13.0%	0	0	50	44	0	0	0	0
New York	16	10	59.0%	0	0	16	6	0	0	0	4
Pennsylvania	2,232	2,129	4.9%	0	0	2,227	2,122	0	0	5	6
East North Central	14,047	13,193	6.5%	8,231	8,221	5,746	4,909	2	1	67	62
Illinois	3,675	3,096	19.0%	226	209	3,396	2,838	1	0	51	49
Indiana	3,599	3,445	4.5%	3,356	3,297	242	146	1	1	0	0
Michigan	2,495	2,101	19.0%	2,476	2,082	17	18	0	0	NM	1
Ohio	2,357	2,629	-10.0%	266	722	2,091	1,907	0	0	0	0
Wisconsin	1,922	1,923	0.0%	1,906	1,911	0	0	0	0	16	12
West North Central	11,523	11,506	0.1%	11,423	11,417	0	0	2	2	98	87
Iowa	1,614	1,632	-1.1%	1,565	1,590	0	0	2	2	48	39
Kansas	1,327	1,365	-2.8%	1,327	1,365	0	0	0	0	0	0
Minnesota	1,202	1,259	-4.5%	1,185	1,244	0	0	0	0	17	15
Missouri	3,742	3,774	-0.8%	3,742	3,774	0	0	0	0	0	0
Nebraska	1,342	1,377	-2.5%	1,313	1,347	0	0	0	0	30	30
North Dakota	2,135	1,985	7.6%	2,131	1,982	0	0	0	0	4	2
South Dakota	160	114	40.0%	160	114	0	0	0	0	0	0
South Atlantic	8,984	9,533	-5.8%	8,059	8,518	908	997	1	1	16	16
Delaware	29	13	118.0%	0	0	29	13	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,422	1,568	-9.3%	1,421	1,544	0	21	0	0	1	3
Georgia	1,732	1,846	-6.2%	1,729	1,843	0	0	0	0	3	3
Maryland	335	378	-11.0%	0	0	334	376	0	0	1	2
North Carolina	1,285	1,663	-23.0%	1,279	1,656	3	4	1	1	2	2
South Carolina	819	806	1.5%	819	806	0	0	0	0	0	0
Virginia	550	611	-10.0%	521	585	19	19	0	0	9	6
West Virginia	2,813	2,648	6.2%	2,290	2,084	522	564	0	0	0	0
East South Central	6,039	6,227	-3.0%	5,718	6,030	307	184	0	0	13	14
Alabama	1,694	1,686	0.5%	1,694	1,685	0	0	0	0	1	1
Kentucky	2,882	2,682	7.5%	2,882	2,682	0	0	0	0	0	0
Mississippi	431	336	28.0%	124	152	307	184	0	0	0	0
Tennessee	1,032	1,523	-32.0%	1,019	1,510	0	0	0	0	12	13
West South Central	11,527	12,986	-11.0%	6,566	6,375	4,953	6,597	0	0	7	14
Arkansas	1,831	1,733	5.6%	1,620	1,490	211	242	0	0	0	1
Louisiana	952	753	26.0%	710	376	241	377	0	0	0	0
Oklahoma	1,088	1,222	-11.0%	967	1,097	114	111	0	0	7	13
Texas	7,656	9,278	-17.0%	3,269	3,412	4,387	5,867	0	0	0	0
Mountain	8,481	9,244	-8.3%	7,706	8,172	766	1,055	0	0	10	17
Arizona	1,693	1,717	-1.4%	1,693	1,717	0	0	0	0	0	0
Colorado	1,516	1,493	1.5%	1,516	1,493	0	0	0	0	0	0
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	638	944	-32.0%	20	25	618	920	0	0	0	0
Nevada	217	176	23.0%	150	122	66	55	0	0	0	0
New Mexico	730	1,191	-39.0%	730	1,191	0	0	0	0	0	0
Utah	1,286	1,192	7.9%	1,250	1,148	36	36	0	0	0	8
Wyoming	2,400	2,530	-5.1%	2,347	2,478	45	45	0	0	9	8
Pacific Contiguous	672	776	-13.0%	118	199	548	571	0	0	6	6
California	5	5	2.4%	0	0	0	0	0	0	5	5
Oregon	118	199	-41.0%	118	199	0	0	0	0	0	0
Washington	549	572	-4.0%	0	0	548	571	0	0	1	1
Pacific Noncontiguous	119	111	7.4%	31	21	85	87	4	3	0	0
Alaska	50	39	28.0%	31	21	16	15	4	3	0	0
Hawaii	69	72	-3.9%	0	0	69	72	0	0	0	0
U.S. Total	63,710	65,761	-3.1%	47,867	48,954	15,612	16,574	9	7	222	227

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	410	715	-43.0%	237	76	170	637	0	0	3	2
Connecticut	162	70	132.0%	0	0	162	70	0	0	0	0
Maine	11	10	6.3%	0	0	8	8	0	0	3	2
Massachusetts	0	559	-100.0%	0	0	0	559	0	0	0	0
New Hampshire	237	76	211.0%	237	76	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	16,980	17,243	-1.5%	0	0	16,935	17,146	0	0	45	97
New Jersey	352	342	2.9%	0	0	352	342	0	0	0	0
New York	230	221	4.2%	0	0	226	166	0	0	4	55
Pennsylvania	16,398	16,680	-1.7%	0	0	16,356	16,638	0	0	42	42
East North Central	98,019	97,399	0.6%	59,437	59,830	38,037	37,068	16	9	530	491
Illinois	24,902	23,109	7.8%	1,510	1,515	22,999	21,217	9	5	384	372
Indiana	26,030	23,775	9.5%	24,683	22,953	1,340	817	7	4	0	0
Michigan	16,875	17,017	-0.8%	16,697	16,856	147	150	0	0	31	11
Ohio	16,977	19,822	-14.0%	3,426	4,937	13,550	14,883	0	0	1	1
Wisconsin	13,235	13,676	-3.2%	13,120	13,568	0	0	0	0	115	107
West North Central	79,727	77,907	2.3%	78,894	77,134	0	0	14	20	820	753
Iowa	10,400	10,163	2.3%	10,045	9,831	0	0	12	15	342	317
Kansas	8,825	8,454	4.4%	8,825	8,454	0	0	0	0	0	0
Minnesota	8,657	8,533	1.5%	8,462	8,355	0	0	0	1	195	177
Missouri	25,720	27,084	-5.0%	25,719	27,080	0	0	1	4	0	0
Nebraska	9,715	8,698	12.0%	9,461	8,459	0	0	0	0	254	240
North Dakota	15,276	14,107	8.3%	15,248	14,087	0	0	0	0	28	19
South Dakota	1,134	867	31.0%	1,134	867	0	0	0	0	0	0
South Atlantic	59,246	64,637	-8.3%	51,347	57,988	7,734	6,461	7	9	158	179
Delaware	145	114	27.0%	0	0	145	114	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8,908	11,882	-25.0%	8,892	11,831	3	33	0	0	13	18
Georgia	10,744	11,697	-8.1%	10,719	11,673	0	0	0	0	26	25
Maryland	3,353	2,366	42.0%	0	0	3,342	2,353	0	0	11	12
North Carolina	9,045	9,833	-8.0%	8,996	9,769	24	34	6	7	19	22
South Carolina	5,432	5,458	-0.5%	5,430	5,455	0	0	0	0	2	3
Virginia	3,454	4,012	-14.0%	3,176	3,766	189	147	1	2	87	98
West Virginia	18,166	19,274	-5.8%	14,135	15,495	4,031	3,780	0	0	0	0
East South Central	41,277	43,148	-4.3%	39,065	41,218	2,104	1,824	0	0	108	106
Alabama	11,737	11,382	3.1%	11,728	11,375	0	0	0	0	9	7
Kentucky	18,797	19,254	-2.4%	18,797	19,254	0	0	0	0	0	0
Mississippi	3,024	2,748	10.0%	920	923	2,104	1,824	0	0	0	0
Tennessee	7,720	9,764	-21.0%	7,621	9,665	0	0	0	0	99	99
West South Central	72,827	85,379	-15.0%	39,794	40,245	32,944	45,016	0	0	90	118
Arkansas	11,015	10,234	7.6%	9,234	9,173	1,775	1,055	0	0	6	6
Louisiana	5,530	5,963	-7.3%	3,574	3,632	1,956	2,331	0	0	0	0
Oklahoma	6,833	7,338	-6.9%	6,059	6,570	690	655	0	0	84	113
Texas	49,449	61,844	-20.0%	20,927	20,870	28,523	40,974	0	0	0	0
Mountain	54,934	60,485	-9.2%	48,862	53,973	5,999	6,421	0	0	74	91
Arizona	11,136	11,087	0.4%	11,136	11,087	0	0	0	0	0	0
Colorado	9,980	11,257	-11.0%	9,978	11,255	0	0	0	0	2	2
Idaho	4	3	15.0%	0	0	0	0	0	0	4	3
Montana	5,143	5,603	-8.2%	139	186	5,004	5,416	0	0	1	1
Nevada	793	838	-5.4%	415	456	378	382	0	0	0	0
New Mexico	4,291	7,428	-42.0%	4,291	7,428	0	0	0	0	0	0
Utah	7,790	7,851	-0.8%	7,515	7,552	275	271	0	0	0	27
Wyoming	15,798	16,418	-3.8%	15,389	16,009	342	352	0	0	68	57
Pacific Contiguous	1,923	2,171	-11.0%	315	694	1,564	1,433	0	0	43	43
California	39	38	3.5%	0	0	0	0	0	0	39	38
Oregon	315	694	-55.0%	315	694	0	0	0	0	0	0
Washington	1,568	1,438	9.0%	0	0	1,564	1,433	0	0	4	5
Pacific Noncontiguous	785	760	3.4%	163	140	596	596	26	24	0	0
Alaska	296	265	12.0%	163	140	107	101	26	24	0	0
Hawaii	490	495	-1.1%	0	0	490	495	0	0	0	0
U.S. Total	426,128	449,843	-5.3%	318,113	331,299	106,083	116,602	63	62	1,870	1,880

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	90	47	94.0%	15	7	72	38	2	1	1	0
Connecticut	34	16	112.0%	NM	1	33	15	NM	0	0	0
Maine	17	3	409.0%	0	0	15	3	1	0	1	0
Massachusetts	26	22	18.0%	NM	2	21	19	NM	1	0	0
New Hampshire	9	4	124.0%	9	4	NM	0	1	0	0	0
Rhode Island	NM	0	--	0	0	NM	0	0	0	0	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	141	74	90.0%	22	5	113	64	NM	2	3	3
New Jersey	NM	2	NM	0	0	NM	2	0	0	0	0
New York	95	26	265.0%	22	5	71	20	NM	0	1	1
Pennsylvania	41	46	-9.8%	0	0	38	43	1	1	NM	2
East North Central	86	89	-3.1%	52	64	32	23	1	1	2	1
Illinois	12	6	89.0%	NM	1	11	5	0	0	0	0
Indiana	25	13	90.0%	23	12	0	0	0	0	2	1
Michigan	21	35	-41.0%	20	34	0	0	0	0	NM	0
Ohio	25	27	-9.2%	NM	9	21	18	0	0	0	0
Wisconsin	NM	7	NM	4	7	0	0	0	0	NM	0
West North Central	42	28	52.0%	41	27	NM	1	0	0	0	0
Iowa	6	4	47.0%	6	4	NM	0	0	0	0	0
Kansas	11	5	129.0%	11	5	0	0	0	0	0	0
Minnesota	5	5	16.0%	5	4	NM	1	0	0	0	0
Missouri	12	7	77.0%	12	7	0	0	0	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	6	5	15.0%	6	5	0	0	0	0	0	0
South Dakota	NM	1	NM	NM	1	0	0	NM	0	0	0
South Atlantic	229	278	-18.0%	163	219	39	38	19	14	9	6
Delaware	NM	1	NM	0	0	NM	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	82	111	-26.0%	80	107	NM	1	0	0	2	2
Georgia	16	12	35.0%	11	8	NM	1	0	1	4	2
Maryland	18	27	-33.0%	2	0	16	27	NM	0	0	0
North Carolina	32	18	73.0%	30	17	NM	1	NM	0	1	1
South Carolina	12	19	-34.0%	11	18	0	0	NM	0	1	1
Virginia	45	69	-35.0%	17	49	8	7	18	13	1	0
West Virginia	18	21	-13.0%	12	20	7	1	0	0	0	0
East South Central	44	44	-2.0%	42	44	NM	0	0	0	1	1
Alabama	5	5	14.0%	5	4	NM	0	0	0	NM	0
Kentucky	9	13	-30.0%	9	13	0	0	0	0	0	0
Mississippi	7	2	317.0%	7	2	0	0	0	0	0	0
Tennessee	22	25	-13.0%	21	25	0	0	0	0	0	0
West South Central	14	23	-40.0%	10	15	3	7	0	0	0	1
Arkansas	5	2	143.0%	2	1	3	1	0	0	0	0
Louisiana	NM	5	NM	NM	5	0	0	0	0	0	0
Oklahoma	3	1	234.0%	3	1	0	0	0	0	0	0
Texas	5	16	-67.0%	4	9	NM	6	0	0	0	0
Mountain	30	27	11.0%	24	25	6	2	0	0	0	0
Arizona	9	6	54.0%	9	6	0	0	0	0	0	0
Colorado	1	2	-39.0%	1	2	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	6	1	434.0%	NM	0	6	1	0	0	0	0
Nevada	4	3	25.0%	3	3	1	1	0	0	0	0
New Mexico	4	6	-46.0%	4	6	0	0	0	0	0	0
Utah	4	4	-16.0%	4	4	0	1	0	0	0	0
Wyoming	3	4	-22.0%	3	4	0	0	0	0	0	0
Pacific Contiguous	13	9	43.0%	9	8	3	1	NM	0	NM	1
California	8	7	8.7%	7	7	1	0	NM	0	0	0
Oregon	NM	1	NM	NM	1	0	0	NM	0	0	0
Washington	NM	1	NM	NM	0	2	0	0	0	NM	1
Pacific Noncontiguous	1,055	1,091	-3.3%	878	853	156	216	1	0	20	21
Alaska	122	125	-2.3%	115	119	0	0	0	0	6	6
Hawaii	933	966	-3.4%	763	734	156	216	0	0	14	15
U.S. Total	1,745	1,710	2.0%	1,257	1,267	425	390	25	19	38	34

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	2,032	426	377.0%	351	67	1,631	331	32	22	18	6
Connecticut	572	95	501.0%	NM	5	562	89	NM	1	1	0
Maine	312	74	320.0%	0	0	291	65	4	4	17	5
Massachusetts	761	201	278.0%	139	19	607	175	NM	7	1	1
New Hampshire	274	40	579.0%	184	30	80	1	10	8	0	0
Rhode Island	NM	7	NM	0	5	NM	0	1	2	0	0
Vermont	NM	8	NM	NM	8	0	0	0	0	0	0
Middle Atlantic	3,631	631	476.0%	989	113	2,574	465	NM	13	38	40
New Jersey	380	49	673.0%	3	0	372	49	4	0	1	0
New York	2,357	258	813.0%	983	112	1,332	115	NM	5	25	26
Pennsylvania	894	323	177.0%	2	0	870	301	9	8	NM	14
East North Central	774	626	24.0%	453	402	300	211	5	4	15	9
Illinois	104	76	36.0%	NM	14	86	62	0	0	0	0
Indiana	158	134	18.0%	145	127	1	0	0	0	12	7
Michigan	177	129	37.0%	173	126	0	0	4	3	1	1
Ohio	293	244	20.0%	79	94	212	148	1	0	2	1
Wisconsin	41	43	-4.0%	39	42	2	0	0	0	NM	0
West North Central	450	324	39.0%	412	317	NM	5	2	1	1	1
Iowa	85	75	13.0%	83	74	2	1	0	0	0	0
Kansas	NM	65	NM	NM	65	0	0	0	0	0	0
Minnesota	68	38	76.0%	32	33	NM	4	1	1	1	1
Missouri	142	70	103.0%	142	70	0	0	0	0	0	0
Nebraska	13	10	29.0%	13	10	0	0	0	0	0	0
North Dakota	42	53	-20.0%	42	53	0	0	0	0	0	0
South Dakota	7	12	-40.0%	7	12	0	0	NM	0	0	0
South Atlantic	4,469	2,156	107.0%	3,120	1,738	1,145	301	122	67	82	49
Delaware	231	17	NM	12	0	219	16	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	667	673	-0.9%	624	655	26	8	0	0	17	10
Georgia	311	142	118.0%	NM	110	NM	10	6	3	37	20
Maryland	472	150	215.0%	9	2	456	144	NM	2	2	1
North Carolina	845	275	208.0%	785	251	NM	15	NM	2	11	6
South Carolina	395	145	172.0%	NM	137	43	2	NM	0	8	7
Virginia	1,344	607	122.0%	997	436	234	105	107	61	NM	5
West Virginia	204	148	38.0%	178	146	26	2	0	0	0	0
East South Central	407	339	20.0%	337	327	58	5	0	0	12	7
Alabama	124	43	191.0%	59	33	58	4	0	0	8	5
Kentucky	109	127	-14.0%	109	127	0	0	0	0	0	0
Mississippi	NM	17	NM	NM	16	0	0	0	0	3	1
Tennessee	144	152	-5.3%	143	151	0	0	0	0	1	1
West South Central	227	203	12.0%	NM	112	NM	87	1	1	6	4
Arkansas	NM	59	NM	NM	20	8	37	0	0	2	1
Louisiana	NM	28	NM	NM	28	0	0	0	0	0	0
Oklahoma	22	17	29.0%	21	16	0	0	0	0	1	1
Texas	86	99	-13.0%	52	48	NM	49	1	1	2	1
Mountain	244	288	-15.0%	210	257	34	31	0	0	0	0
Arizona	69	72	-4.8%	69	72	0	0	0	0	0	0
Colorado	20	14	36.0%	19	14	0	0	0	0	0	0
Idaho	0	0	18.0%	0	0	0	0	0	0	0	0
Montana	30	25	19.0%	NM	1	29	24	0	0	0	0
Nevada	14	15	-3.3%	11	10	4	5	0	0	0	0
New Mexico	23	55	-59.0%	23	55	0	0	0	0	0	0
Utah	40	47	-15.0%	39	45	1	2	0	0	0	0
Wyoming	48	59	-18.0%	48	59	0	0	0	0	0	0
Pacific Contiguous	122	97	25.0%	53	60	25	21	NM	1	43	16
California	94	61	56.0%	44	44	14	7	NM	0	36	10
Oregon	NM	10	NM	NM	10	0	0	NM	0	0	0
Washington	22	27	-18.0%	NM	6	11	14	0	0	7	6
Pacific Noncontiguous	8,036	8,304	-3.2%	6,593	6,724	1,270	1,401	9	9	164	171
Alaska	933	1,103	-15.0%	891	1,055	0	0	3	4	39	45
Hawaii	7,102	7,201	-1.4%	5,702	5,669	1,270	1,401	6	5	125	126
U.S. Total	20,390	13,394	52.0%	12,698	10,117	7,111	2,857	201	118	379	302

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	3	NM	0	0	0	0	0	0	NM	3
New Jersey	1	1	33.0%	0	0	0	0	0	0	1	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	2	NM	0	0	0	0	0	0	NM	2
East North Central	78	95	-17.0%	43	50	25	37	0	0	9	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	48	53	-9.6%	38	45	0	0	0	0	9	8
Ohio	26	37	-31.0%	0	0	25	37	0	0	0	0
Wisconsin	5	5	7.4%	5	5	0	0	0	0	0	0
West North Central	0	0	-100.0%	0	0	0	0	0	0	0	0
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	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	76	38	98.0%	72	35	0	0	0	0	NM	3
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	72	35	105.0%	72	35	0	0	0	0	0	0
Georgia	NM	3	NM	0	0	0	0	0	0	NM	3
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	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	162	149	8.3%	157	141	0	0	0	0	5	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	158	146	8.2%	157	141	0	0	0	0	1	5
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	13.0%	0	0	0	0	0	0	4	4
Mountain	14	15	-5.5%	0	0	14	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	14	15	-5.5%	0	0	14	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	332	300	11.0%	272	226	39	52	0	0	20	22

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	15	18	-19.0%	0	0	0	0	0	0	15	18
New Jersey	4	5	-7.1%	0	0	0	0	0	0	4	5
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	10	13	-23.0%	0	0	0	0	0	0	10	13
East North Central	586	637	-8.1%	392	330	158	262	0	0	36	45
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	395	353	12.0%	361	308	0	0	0	0	35	45
Ohio	159	262	-39.0%	0	0	158	262	0	0	1	0
Wisconsin	31	23	37.0%	31	23	0	0	0	0	0	0
West North Central	6	5	30.0%	0	0	0	0	1	2	5	3
Iowa	6	5	30.0%	0	0	0	0	1	2	5	3
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	432	230	88.0%	407	208	0	0	0	0	25	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	407	208	96.0%	407	208	0	0	0	0	0	0
Georgia	25	22	11.0%	0	0	0	0	0	0	25	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	0	166	-100.0%	0	166	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	166	-100.0%	0	166	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	1,134	1,238	-8.5%	1,088	1,181	0	0	0	0	46	57
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,104	1,208	-8.6%	1,088	1,181	0	0	0	0	17	27
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	29	30	-2.3%	0	0	0	0	0	0	29	30
Mountain	95	105	-10.0%	0	0	95	105	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	95	105	-10.0%	0	0	95	105	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	2,267	2,400	-5.6%	1,886	1,886	253	367	1	2	126	146

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	46,837	40,434	16.0%	NM	410	44,880	38,745	513	551	827	729
Connecticut	15,167	11,226	35.0%	30	47	14,586	10,663	205	219	347	296
Maine	2,315	1,690	37.0%	0	0	2,094	1,527	13	17	208	146
Massachusetts	19,134	18,526	3.3%	NM	307	18,313	17,813	262	284	116	122
New Hampshire	4,174	3,486	20.0%	144	54	4,009	3,414	4	2	17	16
Rhode Island	6,046	5,505	9.8%	0	0	5,878	5,328	28	29	139	148
Vermont	0	2	-70.0%	0	1	0	0	0	0	0	0
Middle Atlantic	148,735	123,746	20.0%	14,195	9,782	132,295	111,928	797	840	1,447	1,196
New Jersey	32,744	26,725	23.0%	NM	212	32,203	26,234	112	106	188	173
New York	54,342	41,757	30.0%	13,951	9,567	39,313	31,316	620	678	458	196
Pennsylvania	61,648	55,263	12.0%	3	3	60,779	54,378	66	56	801	826
East North Central	109,626	76,487	43.0%	41,640	28,433	64,874	45,348	884	744	2,228	1,962
Illinois	22,049	14,918	48.0%	2,864	1,059	18,437	13,194	317	223	432	442
Indiana	19,066	11,863	61.0%	7,648	4,803	10,162	6,032	97	93	1,158	935
Michigan	22,350	18,436	21.0%	9,830	7,181	11,974	10,726	273	262	273	267
Ohio	29,957	19,453	54.0%	7,123	4,865	22,619	14,399	131	133	84	56
Wisconsin	16,205	11,817	37.0%	14,175	10,525	1,683	997	66	34	281	261
West North Central	28,112	16,464	71.0%	24,889	14,161	2,750	1,875	147	137	327	NM
Iowa	5,919	4,178	42.0%	5,644	3,907	NM	0	43	41	232	229
Kansas	3,785	NM	NM	3,743	1,980	0	0	0	0	42	NM
Minnesota	8,002	4,060	97.0%	6,836	3,254	1,089	737	44	42	33	26
Missouri	7,154	4,183	71.0%	5,424	2,982	1,660	1,138	59	53	10	11
Nebraska	1,358	1,001	36.0%	1,357	1,001	0	0	1	0	0	0
North Dakota	830	412	101.0%	820	402	0	0	0	0	11	10
South Dakota	1,065	635	68.0%	1,065	635	0	0	0	0	0	0
South Atlantic	287,182	251,100	14.0%	222,873	204,579	60,869	43,464	1,024	737	2,416	2,321
Delaware	5,117	5,381	-4.9%	76	26	4,618	4,862	0	0	423	492
District of Columbia	60	53	14.0%	0	0	0	0	60	53	0	0
Florida	131,814	127,589	3.3%	122,979	121,126	8,074	5,774	8	10	754	679
Georgia	39,731	39,277	1.2%	28,297	29,414	11,057	9,502	0	0	376	361
Maryland	12,700	5,395	135.0%	2,938	497	8,860	4,292	866	580	35	25
North Carolina	34,794	25,808	35.0%	28,938	21,840	5,714	3,833	88	90	54	45
South Carolina	22,520	12,664	78.0%	15,190	10,908	7,274	1,706	0	0	56	50
Virginia	38,850	33,368	16.0%	24,301	20,670	14,009	12,217	3	4	537	476
West Virginia	1,596	1,567	1.9%	154	98	1,262	1,277	0	0	180	192
East South Central	103,880	89,513	16.0%	71,807	60,003	30,852	28,385	90	64	1,131	1,061
Alabama	42,065	38,655	8.8%	14,523	12,535	26,934	25,579	0	0	607	541
Kentucky	11,059	8,733	27.0%	10,322	8,368	678	291	0	0	59	75
Mississippi	39,126	34,778	13.0%	35,702	32,089	3,235	2,497	0	0	190	192
Tennessee	11,631	7,346	58.0%	11,261	7,011	5	18	90	64	274	253
West South Central	287,949	252,730	14.0%	111,263	90,786	142,436	129,023	501	464	33,748	32,457
Arkansas	14,615	10,727	36.0%	13,782	9,999	648	593	NM	37	148	98
Louisiana	43,904	40,250	9.1%	28,558	25,896	2,646	2,312	69	52	12,631	11,990
Oklahoma	36,958	27,746	33.0%	23,803	16,277	12,758	11,255	0	0	398	214
Texas	192,471	174,007	11.0%	45,121	38,615	126,384	114,863	395	375	20,572	20,154
Mountain	98,362	82,647	19.0%	76,240	63,789	20,579	17,526	168	207	1,374	1,124
Arizona	38,589	31,227	24.0%	26,138	20,355	12,407	10,811	44	60	0	0
Colorado	12,539	10,706	17.0%	9,944	8,979	2,567	1,699	0	0	28	28
Idaho	2,899	2,984	-2.8%	1,600	1,719	1,245	1,199	13	14	41	53
Montana	617	673	-8.3%	439	471	178	202	0	0	0	0
Nevada	24,006	22,364	7.3%	22,219	20,643	1,350	1,358	24	24	412	339
New Mexico	10,467	7,549	39.0%	7,529	5,286	2,784	2,207	47	54	106	3
Utah	8,607	6,644	30.0%	8,102	6,136	46	46	39	56	420	406
Wyoming	638	499	28.0%	NM	201	1	3	0	0	366	296
Pacific Contiguous	106,247	107,892	-1.5%	40,838	42,574	58,460	58,128	1,041	1,059	5,909	6,132
California	79,930	81,365	-1.8%	25,865	27,461	47,213	46,807	1,017	1,044	5,835	6,054
Oregon	14,676	14,511	1.1%	7,222	7,551	7,396	6,905	18	15	40	40
Washington	11,641	12,016	-3.1%	7,750	7,562	3,851	4,416	6	0	34	38
Pacific Noncontiguous	4,033	2,401	68.0%	4,008	2,378	0	0	0	0	25	23
Alaska	4,033	2,401	68.0%	4,008	2,378	0	0	0	0	25	23
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,220,963	1,043,414	17.0%	608,370	516,896	557,994	474,421	5,166	4,803	49,433	47,295

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	254,762	247,280	3.0%	2,197	1,834	243,846	236,573	3,269	3,559	5,451	5,314
Connecticut	90,180	73,477	23.0%	243	336	86,242	69,310	1,341	1,466	2,354	2,366
Maine	13,487	12,574	7.3%	0	0	12,241	11,417	100	99	1,146	1,059
Massachusetts	101,609	110,776	-8.3%	1,603	1,194	97,479	106,903	1,643	1,805	884	874
New Hampshire	14,382	17,865	-19.0%	343	295	13,886	17,409	21	28	132	132
Rhode Island	35,094	32,577	7.7%	0	0	33,999	31,534	160	160	934	884
Vermont	10	11	-7.8%	7	9	0	0	3	2	0	0
Middle Atlantic	823,069	778,522	5.7%	72,151	62,312	735,973	702,614	5,307	5,425	9,638	8,170
New Jersey	188,326	182,531	3.2%	NM	1,459	184,810	179,053	752	768	1,348	1,251
New York	276,027	254,475	8.5%	70,685	60,815	198,493	187,978	4,058	4,205	2,791	1,477
Pennsylvania	358,716	341,516	5.0%	50	39	352,670	335,583	497	452	5,499	5,442
East North Central	700,566	510,292	37.0%	260,264	183,418	417,875	306,385	5,737	5,436	16,690	15,052
Illinois	118,507	101,868	16.0%	11,081	6,402	102,377	90,475	1,900	1,703	3,149	3,288
Indiana	129,916	86,183	51.0%	59,083	35,592	61,771	42,748	647	675	8,415	7,169
Michigan	162,292	128,782	26.0%	61,540	47,878	96,389	76,790	2,013	1,941	2,350	2,173
Ohio	198,934	128,901	54.0%	47,030	37,297	150,414	90,185	824	879	666	540
Wisconsin	90,917	64,557	41.0%	81,530	56,249	6,923	6,188	353	239	2,111	1,881
West North Central	170,913	108,679	57.0%	148,866	95,194	18,703	10,745	1,082	973	2,262	NM
Iowa	36,768	17,443	111.0%	34,988	16,118	NM	0	343	293	1,436	1,031
Kansas	24,635	NM	NM	24,383	13,709	0	0	0	0	253	NM
Minnesota	47,556	35,257	35.0%	40,246	30,460	6,612	4,015	316	360	383	423
Missouri	44,428	28,843	54.0%	31,840	21,691	12,090	6,730	395	312	103	110
Nebraska	7,204	4,630	56.0%	7,176	4,623	0	0	27	7	0	0
North Dakota	4,682	4,578	2.3%	4,595	4,524	0	0	0	0	88	54
South Dakota	5,639	4,069	39.0%	5,639	4,069	0	0	0	0	0	0
South Atlantic	1,796,688	1,612,286	11.0%	1,441,877	1,319,471	331,178	271,095	6,882	5,189	16,752	16,530
Delaware	27,066	36,145	-25.0%	160	95	24,387	32,806	0	0	2,519	3,244
District of Columbia	444	472	-6.0%	0	0	0	0	444	472	0	0
Florida	850,647	799,731	6.4%	800,136	757,382	45,007	37,223	75	92	5,430	5,034
Georgia	261,111	251,761	3.7%	192,628	188,907	65,811	60,346	0	0	2,671	2,508
Maryland	72,619	33,482	117.0%	17,609	517	49,022	28,720	5,684	3,958	305	287
North Carolina	223,564	184,377	21.0%	190,767	157,238	31,702	26,175	637	634	459	330
South Carolina	109,313	87,126	25.0%	85,946	75,258	22,845	11,351	1	3	521	NM
Virginia	244,361	212,776	15.0%	153,252	139,049	87,089	70,380	41	30	3,980	3,316
West Virginia	7,562	6,417	18.0%	1,380	1,025	5,316	4,095	0	0	867	1,297
East South Central	691,419	587,027	18.0%	479,587	403,308	202,507	174,968	700	636	8,624	8,115
Alabama	281,772	246,678	14.0%	103,936	87,946	173,186	154,473	0	0	4,650	4,259
Kentucky	79,211	55,244	43.0%	73,458	52,490	5,229	2,121	0	0	524	632
Mississippi	262,728	231,343	14.0%	237,259	211,591	23,980	18,284	39	21	1,451	1,447
Tennessee	67,708	53,762	26.0%	64,934	51,280	113	90	661	616	2,000	1,777
West South Central	1,794,426	1,529,703	17.0%	680,585	555,110	859,565	717,926	2,979	3,158	251,296	253,509
Arkansas	100,888	85,148	18.0%	94,732	79,641	4,839	4,329	278	288	1,039	890
Louisiana	301,102	283,705	6.1%	183,423	162,732	22,216	20,483	470	438	94,993	100,052
Oklahoma	221,413	160,676	38.0%	138,274	103,200	81,109	56,239	0	0	2,030	1,237
Texas	1,171,023	1,000,174	17.0%	264,157	209,537	751,401	636,874	2,231	2,432	153,235	151,330
Mountain	529,092	449,981	18.0%	418,537	355,530	99,960	84,465	1,444	1,460	9,152	8,527
Arizona	178,164	149,060	20.0%	131,832	108,292	45,913	40,348	419	419	0	0
Colorado	84,673	64,263	32.0%	69,617	52,746	14,837	11,294	0	0	218	222
Idaho	14,181	11,712	21.0%	6,515	6,511	7,173	4,692	113	114	380	395
Montana	3,007	3,088	-2.6%	2,512	2,464	489	614	0	0	6	10
Nevada	137,003	132,529	3.4%	124,826	120,919	9,852	9,806	178	160	2,147	1,644
New Mexico	64,923	52,266	24.0%	43,844	34,529	20,555	17,328	343	396	181	14
Utah	42,913	33,487	28.0%	38,034	29,232	1,130	370	391	369	3,357	3,516
Wyoming	4,230	3,575	18.0%	1,356	835	10	13	0	0	2,863	2,727
Pacific Contiguous	552,904	502,293	10.0%	220,314	196,203	280,714	253,254	7,596	7,664	44,279	45,173
California	427,822	406,405	5.3%	149,542	143,578	227,274	210,731	7,389	7,516	43,617	44,580
Oregon	73,047	54,427	34.0%	38,704	27,724	33,845	26,282	148	105	349	317
Washington	52,035	41,461	26.0%	32,067	24,902	19,595	16,240	59	43	314	276
Pacific Noncontiguous	23,186	19,475	19.0%	23,009	19,271	0	0	2	21	175	183
Alaska	23,186	19,475	19.0%	23,009	19,271	0	0	2	21	175	183
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,337,025	6,345,538	16.0%	3,747,386	3,191,652	3,190,321	2,758,024	34,997	33,521	364,320	362,341

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	952	935	1.8%	0	0	929	910	23	25	0	0
Connecticut	NM	38	NM	0	0	NM	38	0	0	0	0
Maine	NM	66	NM	0	0	NM	66	0	0	0	0
Massachusetts	334	342	-2.2%	0	0	334	342	0	0	0	0
New Hampshire	104	141	-26.0%	0	0	NM	115	23	25	0	0
Rhode Island	383	326	18.0%	0	0	383	326	0	0	0	0
Vermont	NM	23	NM	0	0	NM	23	0	0	0	0
Middle Atlantic	5,192	4,893	6.1%	0	0	5,087	4,704	35	72	69	117
New Jersey	717	702	2.1%	0	0	697	673	NM	29	0	0
New York	1,498	1,402	6.8%	0	0	1,498	1,402	0	0	0	0
Pennsylvania	2,977	2,788	6.8%	0	0	2,892	2,629	16	43	69	117
East North Central	5,386	5,044	6.8%	836	620	4,517	4,380	12	25	21	20
Illinois	857	965	-11.0%	NM	36	779	929	0	0	0	0
Indiana	873	683	28.0%	759	584	114	99	0	0	0	0
Michigan	1,877	1,715	9.5%	0	0	1,877	1,715	0	0	0	0
Ohio	855	897	-4.7%	0	0	855	897	0	0	0	0
Wisconsin	925	783	18.0%	0	0	892	739	12	25	21	20
West North Central	1,101	933	18.0%	397	305	704	628	0	0	0	0
Iowa	217	226	-3.7%	0	0	217	226	0	0	0	0
Kansas	NM	119	NM	0	0	NM	119	0	0	0	0
Minnesota	342	264	29.0%	NM	66	NM	198	0	0	0	0
Missouri	NM	167	NM	NM	82	NM	84	0	0	0	0
Nebraska	NM	157	NM	NM	157	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,733	4,234	12.0%	452	334	4,057	3,579	101	178	124	144
Delaware	NM	98	NM	0	0	NM	88	0	0	NM	9
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	788	874	-9.8%	135	111	654	763	0	0	0	0
Georgia	719	637	13.0%	0	0	716	621	0	0	3	16
Maryland	232	214	8.4%	0	0	NM	139	NM	75	0	0
North Carolina	942	909	3.7%	0	0	926	823	NM	85	0	0
South Carolina	466	365	28.0%	317	217	NM	29	0	0	110	118
Virginia	1,464	1,137	29.0%	0	5	1,451	1,115	NM	17	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	538	500	7.6%	NM	238	316	262	0	0	0	0
Alabama	NM	86	NM	0	0	NM	86	0	0	0	0
Kentucky	245	263	-6.7%	NM	238	NM	25	0	0	0	0
Mississippi	NM	6	NM	0	0	NM	6	0	0	0	0
Tennessee	NM	145	NM	0	0	NM	145	0	0	0	0
West South Central	1,274	1,114	14.0%	0	0	1,225	1,071	49	43	0	0
Arkansas	NM	20	NM	0	0	NM	20	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	52	NM	0	0	NM	52	0	0	0	0
Texas	1,084	1,042	4.1%	0	0	1,035	999	49	43	0	0
Mountain	627	420	49.0%	NM	23	551	368	52	29	0	0
Arizona	NM	68	NM	0	0	NM	68	0	0	0	0
Colorado	NM	89	NM	0	0	NM	89	0	0	0	0
Idaho	NM	90	NM	NM	23	NM	49	20	19	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	109	NM	0	0	NM	109	0	0	0	0
New Mexico	NM	2	NM	0	0	NM	2	0	0	0	0
Utah	NM	63	NM	0	0	NM	53	32	10	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,830	4,776	1.1%	NM	511	3,545	3,017	1,157	1,222	0	26
California	4,228	3,967	6.6%	NM	126	3,092	2,631	1,127	1,185	0	26
Oregon	484	427	14.0%	NM	111	336	278	NM	38	0	0
Washington	NM	382	NM	0	274	NM	108	0	0	0	0
Pacific Noncontiguous	65	74	-12.0%	0	0	0	0	65	74	0	0
Alaska	65	74	-12.0%	0	0	0	0	65	74	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	24,698	22,923	7.7%	2,059	2,030	20,932	18,919	1,494	1,668	214	305

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	7,091	7,133	-0.6%	0	0	6,947	6,983	144	150	0	0
Connecticut	322	294	9.7%	0	0	322	294	0	0	0	0
Maine	518	481	7.7%	0	0	518	481	0	0	0	0
Massachusetts	2,584	2,473	4.5%	0	0	2,584	2,473	0	0	0	0
New Hampshire	760	998	-24.0%	0	0	617	848	144	150	0	0
Rhode Island	2,729	2,713	0.6%	0	0	2,729	2,713	0	0	0	0
Vermont	NM	174	NM	0	0	NM	174	0	0	0	0
Middle Atlantic	37,868	35,851	5.6%	0	0	36,506	34,281	509	528	853	1,042
New Jersey	5,545	5,010	11.0%	0	0	5,341	4,797	204	213	0	0
New York	11,915	11,147	6.9%	0	0	11,915	11,147	0	0	0	0
Pennsylvania	20,408	19,693	3.6%	0	0	19,250	18,337	305	315	853	1,042
East North Central	43,063	42,823	0.6%	6,240	4,970	36,432	37,463	222	234	169	156
Illinois	7,005	8,913	-21.0%	579	304	6,425	8,609	0	0	0	0
Indiana	6,487	5,367	21.0%	5,661	4,628	826	739	0	0	0	0
Michigan	14,646	13,903	5.3%	0	0	14,646	13,903	0	0	0	0
Ohio	7,271	7,313	-0.6%	0	0	7,271	7,313	0	0	0	0
Wisconsin	7,655	7,328	4.5%	0	38	7,264	6,899	222	234	169	156
West North Central	8,551	7,527	14.0%	3,040	2,403	5,511	5,124	0	0	0	0
Iowa	1,749	1,745	0.3%	0	0	1,749	1,745	0	0	0	0
Kansas	991	886	12.0%	0	0	991	886	0	0	0	0
Minnesota	2,652	2,232	19.0%	724	490	1,928	1,742	0	0	0	0
Missouri	1,897	1,487	28.0%	1,055	734	842	753	0	0	0	0
Nebraska	1,261	1,178	7.0%	1,261	1,178	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	37,580	36,179	3.9%	3,682	3,048	31,717	30,252	988	1,556	1,193	1,322
Delaware	937	853	9.9%	0	0	857	772	0	0	80	80
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,250	7,000	-11.0%	1,183	1,105	5,067	5,895	0	0	0	0
Georgia	5,510	4,894	13.0%	0	0	5,420	4,686	0	0	90	208
Maryland	2,096	1,849	13.0%	0	0	1,416	1,200	680	649	0	0
North Carolina	7,554	7,594	-0.5%	0	0	7,377	6,848	177	745	0	0
South Carolina	3,790	3,185	19.0%	2,466	1,895	301	257	0	0	1,023	1,034
Virginia	11,444	10,804	5.9%	33	48	11,279	10,593	132	163	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4,138	4,056	2.0%	1,713	1,893	2,425	2,163	0	0	0	0
Alabama	753	713	5.5%	0	0	753	713	0	0	0	0
Kentucky	1,881	2,093	-10.0%	1,713	1,893	168	201	0	0	0	0
Mississippi	NM	118	NM	0	0	NM	118	0	0	0	0
Tennessee	1,328	1,131	17.0%	0	0	1,328	1,131	0	0	0	0
West South Central	9,971	9,983	-0.1%	0	0	9,579	9,651	392	332	0	0
Arkansas	1,132	1,229	-7.9%	0	0	1,132	1,229	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	333	265	26.0%	0	0	333	265	0	0	0	0
Texas	8,506	8,488	0.2%	0	0	8,115	8,157	392	332	0	0
Mountain	4,837	4,492	7.7%	188	163	4,299	4,030	351	299	0	0
Arizona	683	668	2.4%	0	0	683	668	0	0	0	0
Colorado	787	935	-16.0%	0	0	787	935	0	0	0	0
Idaho	594	639	-7.1%	188	163	283	349	123	127	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,304	1,075	21.0%	0	0	1,304	1,075	0	0	0	0
New Mexico	NM	14	NM	0	0	NM	14	0	0	0	0
Utah	1,389	1,162	20.0%	0	0	1,162	990	227	172	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	39,988	38,555	3.7%	3,326	4,457	26,977	24,164	9,685	9,854	0	80
California	33,888	31,852	6.4%	841	1,280	23,643	20,944	9,405	9,548	0	80
Oregon	3,757	3,599	4.4%	923	900	2,554	2,393	280	306	0	0
Washington	2,342	3,104	-25.0%	1,562	2,277	781	827	0	0	0	0
Pacific Noncontiguous	557	492	13.0%	0	0	0	0	557	492	0	0
Alaska	557	492	13.0%	0	0	0	0	557	492	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	193,644	187,090	3.5%	18,188	16,933	160,393	154,111	12,847	13,445	2,215	2,601

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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, August 2018 and August 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	298	329	-9.3%	0	0	285	311	13	18	0	0
Connecticut	101	108	-6.2%	0	0	101	108	0	0	0	0
Maine	23	28	-16.0%	0	0	10	10	13	18	0	0
Massachusetts	164	183	-10.0%	0	0	164	183	0	0	0	0
New Hampshire	9	9	-5.2%	0	0	9	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	478	489	-2.3%	0	0	381	386	97	103	0	0
New Jersey	125	122	2.2%	0	0	96	92	30	30	0	0
New York	177	187	-5.2%	0	0	133	137	44	50	0	0
Pennsylvania	176	180	-2.3%	0	0	152	157	23	23	0	0
East North Central	21	22	-5.9%	3	3	0	0	17	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	6.0%	0	0	0	0	2	2	0	0
Michigan	15	17	-10.0%	0	0	0	0	15	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	11.0%	3	3	0	0	0	0	0	0
West North Central	63	65	-2.9%	44	44	19	20	0	1	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	63	65	-2.9%	44	44	19	20	0	1	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	503	445	13.0%	0	0	464	403	40	42	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	338	354	-4.4%	0	0	338	354	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	59	49	20.0%	0	0	59	49	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	107	42	152.0%	0	0	67	0	40	42	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	-11.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-11.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	55	62	-11.0%	0	0	55	62	0	0	0	0
California	34	40	-13.0%	0	0	34	40	0	0	0	0
Oregon	9	9	5.6%	0	0	9	9	0	0	0	0
Washington	11	13	-15.0%	0	0	11	13	0	0	0	0
Pacific Noncontiguous	42	40	4.3%	0	0	0	0	42	40	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	40	4.3%	0	0	0	0	42	40	0	0
U.S. Total	1,461	1,453	0.6%	47	47	1,204	1,182	209	223	1	1

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	2,339	2,489	-6.0%	0	0	2,221	2,352	119	137	0	0
Connecticut	780	842	-7.4%	0	0	780	842	0	0	0	0
Maine	195	214	-9.0%	0	0	76	77	119	137	0	0
Massachusetts	1,284	1,350	-4.9%	0	0	1,284	1,350	0	0	0	0
New Hampshire	81	83	-2.4%	0	0	81	83	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,582	3,655	-2.0%	0	0	2,852	2,875	730	780	0	0
New Jersey	966	954	1.2%	0	0	731	720	235	234	0	0
New York	1,311	1,377	-4.8%	0	0	980	999	330	377	0	0
Pennsylvania	1,305	1,325	-1.5%	0	0	1,141	1,156	165	169	0	0
East North Central	158	163	-3.3%	23	25	0	0	134	138	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	13	12	8.7%	0	0	0	0	13	12	0	0
Michigan	121	126	-4.1%	0	0	0	0	121	126	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	23	25	-5.0%	23	25	0	0	0	0	0	0
West North Central	442	430	2.7%	288	261	154	161	0	8	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	442	430	2.7%	288	261	154	161	0	8	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,819	3,498	9.2%	0	0	3,513	3,149	306	348	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,586	2,676	-3.4%	0	0	2,586	2,676	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	435	407	6.9%	0	0	435	407	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	798	414	93.0%	0	0	492	66	306	348	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	7	5	54.0%	0	0	0	0	0	0	7	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	7	5	54.0%	0	0	0	0	0	0	7	5
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	473	500	-5.4%	0	0	473	500	0	0	0	0
California	292	324	-9.7%	0	0	292	324	0	0	0	0
Oregon	76	71	6.9%	0	0	76	71	0	0	0	0
Washington	105	105	-0.4%	0	0	105	105	0	0	0	0
Pacific Noncontiguous	298	280	6.3%	0	0	0	0	298	280	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	298	280	6.3%	0	0	0	0	298	280	0	0
U.S. Total	11,118	11,020	0.9%	312	286	9,212	9,038	1,586	1,692	7	5

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	4,419	4,823	-8.4%	706	829	3,268	3,573	1	1	444	420
Connecticut	227	240	-5.5%	0	0	227	240	0	0	0	0
Maine	1,876	1,941	-3.4%	0	0	1,432	1,521	0	0	444	420
Massachusetts	NM	198	NM	0	0	NM	198	0	0	0	0
New Hampshire	1,613	1,861	-13.0%	316	445	1,297	1,415	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	550	584	-5.8%	390	384	NM	199	1	1	0	0
Middle Atlantic	885	1,175	-25.0%	0	0	596	674	0	0	288	501
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	679	750	-9.5%	0	0	596	673	0	0	83	77
Pennsylvania	206	425	-52.0%	0	0	1	0	0	0	205	424
East North Central	2,145	2,166	-1.0%	485	399	1,046	1,125	0	0	613	642
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,348	1,419	-4.9%	0	0	1,033	1,111	0	0	316	307
Ohio	89	120	-26.0%	0	0	13	14	0	0	76	106
Wisconsin	707	627	13.0%	485	399	0	0	0	0	222	229
West North Central	567	1,078	-47.0%	155	190	118	606	60	40	234	243
Iowa	1	2	-40.0%	0	0	0	0	1	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	531	1,044	-49.0%	155	190	118	606	24	6	234	243
Missouri	34	32	7.0%	0	0	0	0	34	32	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	10,889	11,724	-7.1%	2,624	1,970	2,598	3,747	8	0	5,659	6,007
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,021	1,439	40.0%	790	0	483	672	0	0	747	767
Georgia	2,793	3,477	-20.0%	0	0	657	1,102	0	0	2,136	2,375
Maryland	42	63	-33.0%	0	0	0	0	8	0	34	63
North Carolina	1,332	1,589	-16.0%	0	0	735	983	0	0	596	607
South Carolina	1,505	1,629	-7.6%	140	127	460	575	0	0	904	926
Virginia	3,196	3,527	-9.4%	1,693	1,843	262	415	0	0	1,241	1,269
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,173	3,316	-4.3%	0	0	183	168	0	0	2,989	3,148
Alabama	2,017	2,193	-8.0%	0	0	183	168	0	0	1,834	2,025
Kentucky	145	154	-5.9%	0	0	0	0	0	0	145	154
Mississippi	607	578	5.0%	0	0	0	0	0	0	607	578
Tennessee	403	391	3.2%	0	0	0	0	0	0	403	391
West South Central	2,756	2,622	5.1%	0	0	388	78	0	0	2,368	2,545
Arkansas	586	587	-0.3%	0	0	0	0	0	0	586	587
Louisiana	1,247	1,417	-12.0%	0	0	0	0	0	0	1,247	1,417
Oklahoma	154	144	6.6%	0	0	10	0	0	0	144	144
Texas	769	474	62.0%	0	0	378	78	0	0	391	396
Mountain	400	628	-36.0%	0	0	337	467	0	0	62	160
Arizona	NM	310	NM	0	0	NM	310	0	0	0	0
Colorado	117	125	-6.2%	0	0	117	125	0	0	0	0
Idaho	69	169	-59.0%	0	0	30	32	0	0	39	137
Montana	23	23	0.1%	0	0	0	0	0	0	23	23
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	5,081	5,804	-12.0%	329	415	3,081	3,812	0	0	1,671	1,578
California	3,451	3,937	-12.0%	0	0	2,870	3,511	0	0	581	426
Oregon	573	706	-19.0%	0	0	NM	301	0	0	362	406
Washington	1,057	1,160	-8.9%	329	415	0	0	0	0	728	746
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	30,312	33,336	-9.1%	4,299	3,803	11,616	14,249	69	41	14,328	15,244

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	35,329	38,533	-8.3%	4,999	5,863	26,847	29,161	15	43	3,468	3,466
Connecticut	1,710	1,557	9.9%	0	0	1,710	1,557	0	0	0	0
Maine	15,170	16,199	-6.3%	0	0	11,693	12,697	9	35	3,468	3,466
Massachusetts	1,351	1,538	-12.0%	0	0	1,351	1,538	0	0	0	0
New Hampshire	13,226	15,104	-12.0%	2,496	3,237	10,730	11,867	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,872	4,135	-6.4%	2,503	2,626	1,362	1,502	6	7	0	0
Middle Atlantic	8,083	8,719	-7.3%	0	0	4,650	4,509	0	0	3,432	4,210
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,314	5,199	2.2%	0	0	4,648	4,508	0	0	666	692
Pennsylvania	2,769	3,520	-21.0%	0	0	2	1	0	0	2,766	3,519
East North Central	16,510	16,283	1.4%	3,450	3,202	8,105	8,245	0	0	4,955	4,836
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	10,468	10,507	-0.4%	0	0	8,007	8,143	0	0	2,461	2,364
Ohio	768	864	-11.0%	0	0	98	101	0	0	670	763
Wisconsin	5,274	4,912	7.4%	3,450	3,202	0	0	0	0	1,825	1,710
West North Central	6,606	7,097	-6.9%	1,256	1,259	3,118	3,673	267	258	1,964	1,908
Iowa	2	4	-51.0%	0	0	0	0	2	4	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	6,397	6,857	-6.7%	1,256	1,259	3,118	3,673	59	18	1,964	1,908
Missouri	206	236	-13.0%	0	0	0	0	206	236	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	84,377	83,609	0.9%	18,245	16,402	22,399	24,368	88	27	43,646	42,811
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14,848	13,195	13.0%	4,684	2,251	4,325	5,069	0	0	5,839	5,874
Georgia	22,446	21,586	4.0%	0	0	5,661	5,737	0	0	16,785	15,850
Maryland	453	452	0.2%	0	0	0	0	88	27	365	425
North Carolina	10,993	11,388	-3.5%	0	0	6,412	6,960	0	0	4,582	4,428
South Carolina	12,259	12,792	-4.2%	1,264	1,207	4,033	4,489	0	0	6,962	7,097
Virginia	23,379	24,195	-3.4%	12,297	12,944	1,969	2,113	0	0	9,113	9,138
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	24,862	24,624	1.0%	0	0	1,432	1,370	0	0	23,430	23,254
Alabama	16,106	15,887	1.4%	0	0	1,432	1,370	0	0	14,674	14,517
Kentucky	1,188	1,142	4.0%	0	0	0	0	0	0	1,188	1,142
Mississippi	4,630	4,671	-0.9%	0	0	0	0	0	0	4,630	4,671
Tennessee	2,939	2,925	0.5%	0	0	0	0	0	0	2,939	2,925
West South Central	21,467	19,639	9.3%	0	0	2,189	905	0	0	19,278	18,734
Arkansas	4,718	4,516	4.5%	0	0	0	0	0	0	4,718	4,516
Louisiana	10,289	10,253	0.4%	0	0	0	0	0	0	10,289	10,253
Oklahoma	1,262	971	30.0%	0	0	20	0	0	0	1,242	971
Texas	5,198	3,899	33.0%	0	0	2,169	905	0	0	3,029	2,994
Mountain	3,819	4,484	-15.0%	0	0	2,608	3,273	0	0	1,211	1,211
Arizona	1,597	2,172	-26.0%	0	0	1,597	2,172	0	0	0	0
Colorado	801	901	-11.0%	0	0	801	901	0	0	0	0
Idaho	1,257	1,249	0.6%	0	0	210	200	0	0	1,047	1,049
Montana	164	162	0.9%	0	0	0	0	0	0	164	162
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	40,266	39,781	1.2%	2,694	2,421	24,510	25,613	0	0	13,062	11,747
California	27,114	27,525	-1.5%	0	0	22,921	24,423	0	0	4,193	3,102
Oregon	4,583	4,042	13.0%	0	0	1,589	1,190	0	0	2,994	2,852
Washington	8,570	8,214	4.3%	2,694	2,421	0	0	0	0	5,876	5,793
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	241,319	242,769	-0.6%	30,643	29,146	95,860	101,116	370	328	114,446	112,179

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

	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									
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
2017	137,687	29,294	864	114,782	20,253	692	22,905	9,041	171
Year 2016, End of Month Stocks									
January	187,203	32,307	1,320	146,300	20,894	1,089	40,903	11,412	231
February	187,064	31,644	1,323	145,895	20,651	1,064	41,168	10,994	259
March	191,553	31,569	1,240	148,648	20,642	974	42,905	10,927	266
April	193,185	31,788	1,181	150,859	20,926	901	42,327	10,863	280
May	192,417	32,139	1,071	150,639	21,202	826	41,778	10,936	246
June	182,086	31,992	905	144,309	21,133	689	37,777	10,859	216
July	168,119	31,606	858	134,344	20,906	678	33,775	10,700	180
August	158,908	31,565	780	128,256	20,846	589	30,652	10,719	191
Sept	156,567	31,637	768	127,532	20,924	566	29,035	10,713	201
October	160,932	31,831	813	131,510	21,017	606	29,422	10,813	207
November	170,277	32,503	833	138,091	21,583	606	32,185	10,921	227
December	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
Year 2017, End of Month Stocks									
January	156,214	31,761	768	125,221	20,912	540	30,994	10,849	228
February	160,502	31,500	756	128,051	20,731	544	32,451	10,769	212
March	161,815	32,174	785	128,645	21,565	558	33,170	10,609	227
April	163,937	31,969	844	130,461	21,531	622	33,475	10,438	221
May	162,542	31,578	772	129,300	21,123	562	33,242	10,455	210
June	158,014	31,208	742	126,564	21,038	535	31,450	10,171	207
July	145,811	31,033	724	117,584	20,901	544	28,228	10,132	180
August	141,204	30,750	749	114,228	20,687	569	26,976	10,064	181
Sept	139,571	30,346	798	113,247	20,516	624	26,324	9,830	173
October	141,463	30,227	862	114,939	20,336	683	26,524	9,891	179
November	143,424	30,501	859	117,758	20,626	677	25,666	9,875	182
December	137,687	29,294	864	114,782	20,253	692	22,905	9,041	171
Year 2018, End of Month Stocks									
January	123,513	26,070	967	103,912	18,126	587	19,601	7,944	380
February	120,858	26,841	934	101,745	18,582	570	19,113	8,259	364
March	126,407	26,766	953	106,644	18,678	621	19,763	8,088	332
April	128,964	26,656	947	108,127	18,659	655	20,837	7,997	292
May	128,363	26,753	948	107,433	18,722	656	20,930	8,031	292
June	121,448	26,308	817	101,778	18,316	534	19,670	7,992	283
July	110,731	25,730	884	93,357	17,791	623	17,375	7,939	261
August	104,138	24,572	809	88,189	16,950	588	15,950	7,621	221

Notes: See Glossary for definitions. Values for 2017 and prior years are final. Values for 2018 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, August 2018 and 2017

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	August 2018	August 2017	Percentage Change	August 2018	August 2017	Percentage Change	August 2018	August 2017	Percentage Change
New England	697	1,068	-34.7%	2,874	4,013	-28.4%	0	0	--
Connecticut	W	W	W	1,008	1,486	-32.2%	0	0	--
Maine	0	0	--	183	412	-55.6%	0	0	--
Massachusetts	W	W	W	1,293	1,568	-17.5%	0	0	--
New Hampshire	W	W	W	215	340	-36.9%	0	0	--
Rhode Island	W	W	W	137	161	-14.6%	0	0	--
Vermont	0	0	--	38	45	-15.3%	0	0	--
Middle Atlantic	2,437	4,061	-40.0%	4,372	5,639	-22.5%	0	0	--
New Jersey	W	126	W	593	647	-8.2%	0	0	--
New York	W	W	W	2,888	3,734	-22.6%	0	0	--
Pennsylvania	2,239	W	W	890	1,259	-29.3%	0	0	--
East North Central	20,718	28,829	-28.1%	945	1,099	-14.1%	312	206	51.0%
Illinois	4,614	6,513	-29.2%	73	93	-21.4%	0	0	--
Indiana	6,506	8,460	-23.1%	91	105	-13.1%	W	W	W
Michigan	3,361	4,339	-22.6%	294	329	-10.6%	W	W	W
Ohio	3,147	5,332	-41.0%	298	369	-19.2%	W	W	W
Wisconsin	3,090	4,185	-26.2%	189	204	-7.4%	W	W	W
West North Central	20,578	26,299	-21.8%	715	968	-26.1%	0	0	--
Iowa	4,257	6,324	-32.7%	89	154	-42.3%	0	0	--
Kansas	3,092	3,675	-15.9%	93	120	-22.5%	0	0	--
Minnesota	2,369	3,586	-33.9%	77	130	-41.1%	0	0	--
Missouri	7,096	7,517	-5.6%	307	361	-14.8%	0	0	--
Nebraska	2,239	3,240	-30.9%	87	120	-27.1%	0	0	--
North Dakota	W	W	W	24	33	-26.3%	0	0	--
South Dakota	W	W	W	38	51	-25.8%	0	0	--
South Atlantic	17,014	24,301	-30.0%	10,037	12,272	-18.2%	W	W	W
Delaware	W	W	W	340	417	-18.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,304	4,687	-29.5%	4,420	5,593	-21.0%	W	117	W
Georgia	3,760	4,841	-22.3%	720	795	-9.4%	0	0	--
Maryland	918	1,526	-39.8%	542	847	-36.1%	0	0	--
North Carolina	3,278	3,942	-16.8%	1,110	1,219	-9.0%	0	0	--
South Carolina	2,387	4,201	-43.2%	567	675	-16.0%	0	0	--
Virginia	705	1,115	-36.8%	2,204	2,592	-15.0%	0	0	--
West Virginia	W	W	W	134	134	0.0%	W	W	W
East South Central	9,456	14,521	-34.9%	1,405	1,916	-26.7%	W	W	W
Alabama	2,064	2,906	-29.0%	306	329	-7.1%	0	0	--
Kentucky	4,552	7,373	-38.3%	248	242	2.6%	W	W	W
Mississippi	W	1,082	W	253	559	-54.7%	0	0	--
Tennessee	W	3,159	W	599	787	-23.9%	0	0	--
West South Central	14,129	20,311	-30.4%	1,545	1,720	-10.2%	W	W	W
Arkansas	2,360	2,278	3.6%	156	183	-14.7%	0	0	--
Louisiana	1,665	2,329	-28.5%	333	382	-13.0%	W	W	W
Oklahoma	2,989	3,690	-19.0%	95	98	-2.6%	0	0	--
Texas	7,115	12,014	-40.8%	961	1,057	-9.1%	0	0	--
Mountain	18,201	20,188	-9.8%	363	379	-4.0%	W	W	W
Arizona	3,029	3,125	-3.1%	128	132	-2.7%	0	0	--
Colorado	4,204	4,008	4.9%	125	123	1.4%	0	0	--
Idaho	0	0	--	0	0	-15.2%	0	0	--
Montana	W	W	W	17	19	-13.4%	W	W	W
Nevada	W	W	W	2	5	-56.5%	0	0	--
New Mexico	W	W	W	20	35	-43.6%	0	0	--
Utah	4,381	5,474	-20.0%	38	32	19.8%	0	0	--
Wyoming	3,988	4,946	-19.4%	34	32	3.9%	0	0	--
Pacific Contiguous	W	W	W	341	342	-0.1%	0	0	--
California	0	0	--	188	171	9.9%	0	0	--
Oregon	W	W	W	58	71	-18.8%	0	0	--
Washington	W	W	W	96	100	-3.9%	0	0	--
Pacific Noncontiguous	W	W	W	1,974	2,404	-17.9%	0	0	--
Alaska	0	W	W	58	288	-79.8%	0	0	--
Hawaii	W	W	W	1,916	2,116	-9.4%	0	0	--
U.S. Total	104,138	141,204	-26.2%	24,572	30,750	-20.1%	809	749	7.9%

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**August 2018**	**August 2017**	**Percentage Change**	**August 2018**	**August 2017**	**August 2018**	**August 2017**
Coal (Thousand Tons)							
New England	697	1,068	-34.7%	W	W	W	W
Middle Atlantic	2,437	4,061	-40.0%	W	W	W	W
East North Central	20,718	28,829	-28.1%	14,128	18,870	6,590	9,959
West North Central	20,578	26,299	-21.8%	20,578	26,299	0	0
South Atlantic	17,014	24,301	-30.0%	15,392	21,732	1,623	2,569
East South Central	9,456	14,521	-34.9%	9,456	14,521	0	0
West South Central	14,129	20,311	-30.4%	10,759	12,681	3,371	7,630
Mountain	18,201	20,188	-9.8%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**104,138**	**141,204**	**-26.2%**	**88,189**	**114,228**	**15,950**	**26,976**
Petroleum Liquids (Thousand Barrels)							
New England	2,874	4,013	-28.4%	397	643	2,478	3,369
Middle Atlantic	4,372	5,639	-22.5%	1,767	2,346	2,605	3,293
East North Central	945	1,099	-14.1%	651	776	294	324
West North Central	715	968	-26.1%	707	942	8	26
South Atlantic	10,037	12,272	-18.2%	8,345	9,923	1,692	2,349
East South Central	1,405	1,916	-26.7%	1,332	1,843	73	73
West South Central	1,545	1,720	-10.2%	1,204	1,319	340	401
Mountain	363	379	-4.0%	333	345	30	34
Pacific Contiguous	341	342	-0.1%	244	236	98	106
Pacific Noncontiguous	1,974	2,404	-17.9%	1,971	2,315	3	88
U.S. Total	**24,572**	**30,750**	**-20.1%**	**16,950**	**20,687**	**7,621**	**10,064**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	312	206	51.0%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	117	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	**809**	**749**	**7.9%**	**W**	**W**	**W**	**W**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2008 - August 2018

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,004	108,614	4,931	195,548
2016	67,241	90,376	4,393	162,009
2017	56,140	77,875	3,672	137,687
Year 2016, End of Month Stocks				
January	76,919	105,641	4,643	187,203
February	76,373	106,153	4,537	187,064
March	79,664	107,076	4,813	191,553
April	81,390	106,720	5,075	193,185
May	82,185	105,068	5,164	192,417
June	78,216	98,822	5,048	182,086
July	71,287	92,104	4,727	168,119
August	67,462	87,040	4,406	158,908
Sept	65,962	86,411	4,194	156,567
October	67,250	89,666	4,016	160,932
November	70,537	95,428	4,313	170,277
December	67,241	90,376	4,393	162,009
Year 2017, End of Month Stocks				
January	65,797	86,082	4,335	156,214
February	67,752	88,326	4,424	160,502
March	67,783	89,381	4,651	161,815
April	68,195	90,736	5,005	163,937
May	68,333	89,005	5,204	162,542
June	66,591	86,722	4,701	158,014
July	60,766	80,765	4,281	145,811
August	59,208	77,758	4,238	141,204
Sept	58,453	77,173	3,945	139,571
October	59,122	78,821	3,519	141,463
November	59,427	79,916	4,081	143,424
December	56,140	77,875	3,672	137,687
Year 2018, End of Month Stocks				
January	48,427	72,013	3,074	123,513
February	48,164	69,785	2,909	120,858
March	49,560	73,633	3,213	126,407
April	51,011	74,629	3,324	128,964
May	51,844	73,306	3,212	128,363
June	48,898	69,359	3,191	121,448
July	44,958	62,926	2,847	110,731
August	42,817	58,500	2,821	104,138

Notes: See Glossary for definitions.
Values for 2017 and prior years are final. Values for 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:
Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - August 2018

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,516,272	650,770	2.11	40.64	1.34	93.8	101,810	16,807	9.39	56.89	0.49	68.1
2017	12,261,029	642,364	2.06	39.27	1.28	94.7	96,977	16,127	11.86	71.35	0.49	68.0
Year 2016												
January	1,035,315	54,397	2.12	40.35	1.32	85.5	9,096	1,519	7.96	47.76	0.48	56.2
February	981,062	50,919	2.11	40.62	1.40	97.9	8,023	1,323	7.00	42.51	0.47	52.0
March	896,983	45,720	2.17	42.66	1.46	110.7	6,912	1,140	6.92	41.99	0.45	68.2
April	807,001	41,015	2.16	42.44	1.45	101.8	8,592	1,414	8.37	50.85	0.42	88.7
May	871,890	44,729	2.16	42.13	1.44	96.6	9,231	1,536	9.82	59.07	0.45	82.6
June	1,022,903	53,300	2.10	40.25	1.35	82.6	7,612	1,262	10.41	62.76	0.50	67.3
July	1,155,747	60,545	2.11	40.30	1.28	80.1	9,030	1,466	11.83	72.83	0.51	59.3
August	1,254,473	65,150	2.11	40.61	1.32	86.6	9,118	1,492	9.46	57.81	0.51	62.6
Sept	1,156,705	60,441	2.12	40.58	1.30	95.0	8,154	1,342	9.40	57.14	0.51	76.1
October	1,141,983	59,814	2.07	39.59	1.28	107.2	8,387	1,390	10.01	60.48	0.54	77.1
November	1,097,110	57,377	2.08	39.83	1.29	116.3	9,715	1,599	10.09	61.31	0.50	87.0
December	1,095,100	57,362	2.08	39.64	1.32	86.4	7,939	1,323	10.78	64.72	0.48	60.9
Year 2017												
January	1,111,151	58,266	2.09	39.82	1.26	89.7	9,669	1,609	11.97	72.02	0.46	75.3
February	1,007,951	52,810	2.06	39.28	1.30	107.4	6,294	1,044	11.67	70.33	0.49	62.2
March	976,663	50,872	2.07	39.71	1.35	101.5	12,196	2,053	11.62	69.03	0.54	113.5
April	901,976	46,731	2.08	40.06	1.33	102.9	6,356	1,055	11.62	69.98	0.48	65.2
May	957,276	49,830	2.09	40.13	1.33	95.8	6,638	1,108	W	W	0.47	59.9
June	1,042,460	54,220	2.07	39.86	1.31	90.4	7,471	1,241	W	W	0.47	65.9
July	1,095,129	57,572	2.06	39.15	1.22	81.1	6,695	1,121	W	W	0.48	65.6
August	1,187,341	62,125	2.05	39.16	1.29	92.8	7,022	1,162	W	W	0.47	63.6
Sept	1,015,150	53,538	2.02	38.29	1.23	95.9	6,518	1,083	11.68	70.30	0.49	61.6
October	999,170	52,462	2.03	38.70	1.27	102.4	7,578	1,255	11.93	72.04	0.52	69.1
November	984,968	52,087	2.04	38.56	1.26	99.9	9,787	1,622	12.29	74.17	0.47	88.5
December	981,795	51,851	2.04	38.66	1.26	86.8	10,753	1,773	13.99	84.87	0.46	46.8
Year 2018												
January	951,750	50,275	2.07	39.16	1.24	76.3	29,693	4,947	13.68	82.51	0.48	50.7
February	849,609	44,615	2.07	39.43	1.26	95.1	10,931	1,797	12.60	76.84	0.47	118.5
March	940,506	48,770	2.04	39.42	1.33	106.9	7,265	1,210	W	W	0.42	76.8
April	818,670	42,632	2.07	39.74	1.32	102.3	6,423	1,060	13.73	83.20	0.41	63.2
May	892,553	46,150	2.05	39.61	1.37	95.0	8,730	1,441	14.29	86.69	0.34	74.1
June	931,118	48,533	2.05	39.26	1.35	85.0	8,103	1,346	15.01	90.40	0.32	65.8
July	991,966	52,164	2.06	39.10	1.28	80.4	6,853	1,129	14.69	89.17	0.33	60.6
August	1,075,669	56,419	2.06	39.28	1.30	87.1	5,477	902	W	W	0.36	46.5
Year to Date												
2016	8,025,375	415,775	2.13	41.06	1.37	90.6	67,614	11,153	9.04	54.85	0.48	65.2
2017	8,279,947	432,426	2.07	39.63	1.30	94.1	62,342	10,394	11.44	68.63	0.49	71.6
2018	7,451,841	389,557	2.06	39.36	1.31	89.5	83,475	13,832	13.91	84.13	0.41	62.0
Rolling 12 Months Ending in August												
2017	12,770,845	667,421	2.08	39.73	1.30	96.1	96,538	16,048	W	W	0.49	72.6
2018	11,432,923	599,495	2.05	39.08	1.29	91.6	118,110	19,565	W	W	0.44	62.1

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

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2008 - August 2018 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
2017	92,837	3,309	W	W	5.56	74.1	9,951,815	9,628,733	3.37	3.49	87.0	W
Year 2016												
January	9,640	341	1.38	38.93	5.68	79.8	826,179	798,251	3.02	3.13	89.9	2.52
February	11,273	408	1.30	35.80	5.53	96.1	736,278	711,506	2.70	2.79	89.6	2.36
March	10,313	363	1.41	40.14	5.33	81.1	797,607	771,918	2.23	2.30	90.4	2.21
April	10,308	369	1.35	37.75	5.56	81.0	773,337	748,523	2.42	2.50	90.9	2.31
May	8,554	307	1.32	36.76	5.35	65.8	857,644	830,896	2.39	2.47	91.1	2.31
June	6,895	240	1.41	40.48	4.67	50.1	1,020,410	988,673	2.67	2.75	91.4	2.39
July	10,032	355	1.47	41.45	5.14	70.8	1,189,145	1,151,122	2.97	3.07	91.3	2.55
August	11,033	398	1.75	48.48	5.42	76.5	1,205,876	1,163,920	2.95	3.06	91.4	2.52
Sept	10,741	381	2.07	58.30	5.17	84.6	968,648	935,630	3.07	3.18	91.1	2.55
October	8,844	317	1.98	55.43	5.69	92.5	795,915	770,111	3.13	3.23	90.3	2.51
November	9,365	333	2.26	63.59	5.69	82.0	718,522	695,273	3.02	3.12	90.4	2.47
December	9,945	355	2.07	57.94	5.43	82.3	729,545	705,358	3.96	4.10	89.9	2.82
Year 2017												
January	7,058	251	2.14	60.16	5.67	55.9	715,582	691,578	4.11	4.25	85.8	2.88
February	7,593	271	2.00	56.03	5.85	78.1	628,949	608,845	3.56	3.67	86.9	2.63
March	8,628	309	2.06	57.51	5.29	87.2	734,674	711,169	3.35	3.46	87.3	2.66
April	5,835	208	2.00	55.96	5.34	86.1	689,233	667,137	3.38	3.49	87.4	2.65
May	6,776	242	2.05	57.46	5.57	59.6	766,572	742,712	3.48	3.59	88.1	W
June	8,657	308	W	W	5.55	69.9	910,687	881,511	3.29	3.40	87.4	W
July	8,498	302	W	W	5.50	70.1	1,133,095	1,095,411	3.21	3.32	87.1	W
August	7,972	284	W	W	5.47	72.8	1,076,917	1,041,412	3.13	3.23	87.4	W
Sept	7,915	284	W	W	5.43	80.6	910,005	879,186	3.16	3.27	87.1	W
October	8,347	297	W	W	5.61	94.6	823,614	797,394	3.13	3.24	86.7	W
November	7,469	266	W	W	5.67	71.4	720,648	697,890	3.35	3.46	86.5	W
December	8,088	287	2.17	60.99	5.74	78.0	841,838	814,486	3.63	3.75	86.2	2.80
Year 2018												
January	7,009	248	2.38	67.41	5.31	58.8	779,006	754,166	5.02	5.19	79.6	3.50
February	7,769	277	2.43	68.09	5.49	81.9	688,539	667,072	3.61	3.72	78.8	2.79
March	7,841	281	2.54	70.89	5.54	91.6	749,405	725,132	3.18	3.29	80.0	W
April	6,564	232	2.56	72.38	6.09	71.7	706,952	685,216	3.13	3.23	80.1	2.58
May	4,344	152	2.41	68.58	6.09	67.7	814,786	789,317	3.04	3.14	78.8	2.56
June	7,382	260	2.73	77.61	5.97	68.7	927,153	897,864	3.11	3.21	81.3	2.61
July	8,307	293	W	W	5.73	70.2	1,156,051	1,120,081	3.29	3.40	80.4	W
August	8,443	298	W	W	5.67	74.3	1,136,707	1,101,369	3.27	3.38	80.8	W
Year to Date												
2016	78,047	2,781	1.43	40.06	5.36	74.7	7,406,475	7,164,809	2.70	2.79	90.8	2.41
2017	61,018	2,175	W	W	5.53	71.1	6,655,710	6,439,776	3.40	3.52	87.2	W
2018	57,658	2,041	W	W	5.71	72.6	6,958,599	6,740,218	3.44	3.55	80.1	W
Rolling 12 Months Ending in August												
2017	99,912	3,560	W	W	5.51	75.9	9,868,340	9,546,147	3.36	3.47	88.2	W
2018	89,477	3,175	W	W	5.67	75.3	10,254,704	9,929,174	3.39	3.51	82.1	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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- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
Year 2016												
January	750,914	39,064	2.17	41.71	1.18	85.5	6,190	1,022	7.88	47.74	0.44	58.8
February	722,024	37,129	2.16	41.95	1.23	98.2	5,814	955	6.92	42.16	0.41	64.1
March	685,422	34,609	2.19	43.49	1.34	110.9	5,223	851	6.69	41.07	0.40	77.5
April	612,742	30,953	2.19	43.39	1.31	107.4	6,897	1,126	8.35	51.19	0.37	106.4
May	655,166	33,408	2.17	42.60	1.25	98.5	6,742	1,114	9.12	55.16	0.40	91.7
June	775,536	39,900	2.15	41.79	1.24	85.9	5,511	908	10.51	63.80	0.44	70.9
July	849,005	43,981	2.17	41.99	1.15	81.1	7,117	1,142	11.54	71.91	0.52	66.7
August	925,332	47,610	2.17	42.19	1.19	88.3	6,737	1,090	9.15	56.57	0.51	66.2
Sept	851,137	43,822	2.18	42.34	1.18	97.6	5,514	896	9.00	55.39	0.49	79.2
October	842,651	43,693	2.12	40.99	1.16	110.5	5,205	851	9.80	59.94	0.52	73.4
November	805,502	41,615	2.13	41.25	1.20	117.8	6,780	1,106	9.80	60.07	0.48	88.2
December	781,447	40,423	2.13	41.17	1.21	85.4	5,565	925	10.71	64.43	0.44	65.2
Year 2017												
January	797,433	41,477	2.14	41.15	1.14	88.2	6,680	1,100	11.15	67.71	0.44	75.9
February	737,614	38,372	2.11	40.53	1.20	107.5	4,658	770	11.60	70.11	0.46	66.9
March	706,986	36,570	2.12	41.05	1.20	101.9	10,582	1,778	11.59	68.99	0.53	132.1
April	650,562	33,339	2.14	41.82	1.22	105.4	4,760	788	11.41	68.97	0.46	68.2
May	702,581	36,058	2.16	42.07	1.21	95.9	4,694	778	11.40	68.79	0.45	60.1
June	786,845	40,393	2.13	41.51	1.20	91.9	5,771	951	10.93	66.29	0.47	72.2
July	821,488	42,591	2.11	40.78	1.11	81.6	4,826	803	10.96	65.87	0.45	68.3
August	890,849	46,092	2.11	40.79	1.18	93.7	5,210	855	11.12	67.72	0.46	67.4
Sept	741,814	38,857	2.08	39.69	1.10	98.1	4,823	792	11.80	71.87	0.48	65.9
October	733,109	38,175	2.09	40.12	1.15	104.8	5,030	825	12.05	73.47	0.49	63.2
November	726,042	38,128	2.11	40.23	1.13	105.8	7,044	1,156	12.00	73.12	0.41	98.5
December	716,306	37,543	2.11	40.20	1.11	89.5	6,345	1,043	12.93	78.67	0.42	58.0
Year 2018												
January	690,227	36,292	2.08	39.64	1.11	75.7	12,565	2,096	13.91	83.50	0.43	47.5
February	638,278	33,348	2.10	40.24	1.16	97.7	8,008	1,303	12.43	76.46	0.46	119.0
March	700,041	36,379	2.10	40.33	1.17	112.0	5,017	827	13.19	79.99	0.36	77.9
April	605,929	31,436	2.12	40.90	1.22	102.9	5,034	826	13.61	83.01	0.36	73.0
May	658,511	34,012	2.10	40.57	1.23	96.1	6,271	1,028	14.30	87.27	0.29	79.0
June	693,365	36,117	2.10	40.34	1.20	84.7	5,985	986	14.68	89.15	0.28	73.1
July	745,064	39,045	2.10	40.14	1.14	80.5	5,128	836	14.29	87.66	0.27	71.5
August	806,053	42,128	2.11	40.46	1.18	87.7	4,686	769	15.08	91.87	0.34	61.0
Year to Date												
2016	5,976,141	306,654	2.17	42.33	1.23	92.4	50,230	8,208	8.86	54.19	0.44	73.0
2017	6,094,358	314,892	2.13	41.18	1.18	94.5	47,180	7,824	11.30	68.11	0.48	77.0
2018	5,537,467	288,758	2.10	40.32	1.18	90.3	52,694	8,670	13.87	84.32	0.36	67.9
Rolling 12 Months Ending in August												
2017	9,375,095	484,445	2.13	41.27	1.18	96.8	70,244	11,601	10.81	65.47	0.48	76.7
2018	8,454,738	441,460	2.10	40.23	1.16	93.2	75,936	12,485	13.36	81.29	0.39	68.4

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.

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - August 2018 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	4,794,383	4,640,827	3.62	3.74	96.8	2.68
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,925	382,074	3.27	3.38	97.1	2.57
February	9,837	356	1.13	31.18	5.53	131.0	356,803	344,669	2.96	3.06	96.8	2.43
March	8,402	294	1.21	34.47	5.28	103.8	383,424	371,055	2.53	2.61	97.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,155	355,539	2.72	2.80	97.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	412,465	399,342	2.68	2.77	97.4	2.40
June	6,325	220	1.33	38.34	4.59	71.4	501,782	485,899	2.88	2.97	96.9	2.46
July	9,587	340	1.43	40.50	5.10	104.6	571,042	552,828	3.20	3.31	96.5	2.62
August	9,306	335	1.62	45.01	5.45	99.4	571,170	551,024	3.23	3.34	96.9	2.59
Sept	9,059	320	2.00	56.51	5.12	102.8	457,872	442,147	3.43	3.55	97.3	2.64
October	7,088	253	1.87	52.47	5.71	146.9	370,666	358,541	3.53	3.65	96.7	2.58
November	7,871	279	2.22	62.85	5.74	116.3	339,777	328,019	3.36	3.48	97.4	2.54
December	8,017	284	1.99	56.17	5.39	108.8	348,255	336,401	4.15	4.30	97.0	2.78
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	337,596	326,324	4.31	4.46	95.7	2.82
February	7,593	271	2.00	56.03	5.85	124.3	294,616	285,401	3.80	3.92	96.7	2.62
March	8,628	309	2.06	57.51	5.29	143.9	355,096	343,820	3.53	3.64	97.0	2.67
April	5,835	208	2.00	55.96	5.34	188.7	338,000	327,213	3.52	3.63	97.7	2.65
May	6,776	242	2.05	57.46	5.57	91.5	383,433	371,812	3.68	3.80	98.5	2.73
June	8,386	298	2.14	60.07	5.55	105.5	442,214	428,256	3.55	3.66	97.6	2.67
July	8,245	292	2.11	59.61	5.49	107.5	554,383	536,001	3.45	3.57	96.5	2.68
August	7,676	273	2.11	59.17	5.45	119.8	519,749	502,748	3.42	3.53	96.7	2.62
Sept	7,658	274	2.12	59.07	5.42	130.2	435,093	420,539	3.54	3.66	96.4	2.65
October	7,454	265	2.37	66.84	5.58	154.2	389,312	377,140	3.54	3.66	97.1	2.63
November	7,084	252	2.52	70.93	5.66	107.1	342,138	331,585	3.64	3.76	96.6	2.66
December	8,088	287	2.17	60.99	5.74	123.5	402,754	389,987	3.71	3.83	95.5	2.74
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	386,450	374,413	5.13	5.29	88.5	3.29
February	7,769	277	2.43	68.09	5.49	117.9	330,518	320,418	3.81	3.93	89.1	2.76
March	7,841	281	2.54	70.89	5.54	141.5	360,699	349,214	3.48	3.60	89.3	2.61
April	6,564	232	2.56	72.38	6.09	119.0	342,450	332,235	3.30	3.40	89.2	2.60
May	4,344	152	2.41	68.58	6.09	108.3	400,819	388,233	3.24	3.35	84.5	2.60
June	7,382	260	2.73	77.61	5.97	96.2	464,827	450,427	3.27	3.38	87.6	2.63
July	8,147	287	2.73	77.48	5.73	100.4	558,184	541,016	3.29	3.39	84.2	2.66
August	8,183	288	2.82	80.03	5.67	105.4	538,581	522,123	3.34	3.45	85.2	2.65
Year to Date												
2016	67,671	2,403	1.28	36.13	5.34	98.1	3,558,767	3,442,430	2.96	3.06	97.0	2.49
2017	60,197	2,145	2.08	58.33	5.53	113.4	3,225,087	3,121,575	3.62	3.74	97.0	2.68
2018	57,238	2,025	2.59	73.17	5.71	106.8	3,382,529	3,278,080	3.57	3.69	86.8	2.72
Rolling 12 Months Ending in August												
2017	92,232	3,280	2.06	57.90	5.51	114.1	4,741,657	4,586,682	3.62	3.74	97.0	2.67
2018	87,522	3,103	2.49	70.08	5.67	113.0	4,951,826	4,797,332	3.58	3.70	89.6	2.70

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - August 2018

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.93	58.56	0.48	75.1
2017	3,056,215	165,567	1.85	34.19	1.64	93.1	24,704	4,190	12.67	74.73	0.46	73.8
Year 2016												
January	264,906	14,431	1.94	35.56	1.72	87.7	2,670	459	7.86	45.79	0.42	64.8
February	241,497	12,970	1.92	35.76	1.91	101.0	1,867	313	6.94	41.57	0.47	42.4
March	192,217	10,216	2.04	38.36	1.89	117.0	1,484	256	W	W	0.47	66.8
April	178,203	9,323	1.99	38.00	1.97	90.2	1,473	252	W	W	0.50	74.9
May	200,347	10,560	2.08	39.52	2.05	94.7	2,331	396	11.84	69.75	0.48	98.3
June	228,760	12,535	1.87	34.19	1.72	74.5	1,842	312	10.09	59.54	0.47	82.9
July	288,156	15,689	1.89	34.68	1.67	78.4	1,828	310	12.96	76.40	0.45	58.9
August	309,421	16,607	1.89	35.21	1.71	83.3	2,262	383	10.26	60.58	0.48	69.4
Sept	289,363	15,859	1.91	34.96	1.65	90.6	2,478	420	10.16	59.98	0.49	92.3
October	280,681	15,236	1.88	34.66	1.62	101.0	2,885	492	10.39	61.12	0.49	111.5
November	276,435	15,051	1.91	35.16	1.53	117.1	2,652	446	10.79	64.16	0.47	115.5
December	297,372	16,171	1.91	35.08	1.60	91.6	2,202	370	W	W	0.50	65.7
Year 2017												
January	297,849	16,042	1.92	35.75	1.59	96.7	2,862	488	13.96	82.04	0.47	103.9
February	254,381	13,690	1.88	34.92	1.59	110.9	1,514	254	11.89	70.84	0.50	70.2
March	251,712	13,439	1.88	35.27	1.75	103.1	1,436	247	11.97	69.71	0.44	91.2
April	235,324	12,633	1.85	34.48	1.66	99.2	1,436	242	W	W	0.44	83.2
May	238,355	12,976	1.86	34.11	1.67	97.1	1,790	306	W	W	0.45	79.3
June	239,687	13,070	1.86	34.15	1.67	87.3	1,559	267	W	W	0.42	64.2
July	257,789	14,218	1.85	33.64	1.55	80.5	1,775	303	W	W	0.48	79.4
August	279,845	15,249	1.83	33.52	1.64	91.5	1,702	289	W	W	0.43	72.3
Sept	258,366	13,963	1.82	33.65	1.63	92.0	1,543	267	W	W	0.42	68.5
October	250,339	13,545	1.83	33.87	1.60	99.0	2,399	406	11.71	69.17	0.50	121.1
November	243,578	13,224	1.79	33.00	1.64	88.3	2,544	434	13.15	77.15	0.56	113.8
December	248,991	13,519	1.83	33.70	1.68	81.5	4,145	688	15.82	95.35	0.43	43.1
Year 2018												
January	246,150	13,243	2.00	37.16	1.60	79.5	16,721	2,787	13.51	81.73	0.48	60.0
February	197,472	10,603	1.94	36.08	1.58	91.3	2,735	465	13.30	78.46	0.44	202.6
March	225,377	11,669	1.85	35.75	1.83	97.6	2,014	345	W	W	0.43	111.2
April	199,704	10,574	1.88	35.52	1.61	105.1	1,236	210	W	W	0.44	58.2
May	219,931	11,454	1.87	36.00	1.78	94.7	2,311	389	14.24	85.04	0.48	88.7
June	223,656	11,737	1.85	35.21	1.84	87.4	2,011	344	16.11	94.38	0.43	79.1
July	232,451	12,416	1.88	35.17	1.73	80.8	1,587	270	15.97	93.81	0.45	60.1
August	256,223	13,648	1.87	35.05	1.68	87.0	656	111	W	W	0.31	24.1
Year to Date												
2016	1,903,507	102,331	1.94	36.14	1.81	88.0	15,757	2,682	9.55	56.16	0.47	66.7
2017	2,054,941	111,316	1.87	34.49	1.64	94.9	14,074	2,395	11.96	70.30	0.46	80.5
2018	1,800,965	95,344	1.89	35.75	1.71	89.2	29,271	4,920	14.04	83.88	0.46	67.1
Rolling 12 Months Ending in August												
2017	3,198,792	173,633	1.88	34.66	1.62	96.2	24,292	4,123	W	W	0.47	85.5
2018	2,802,239	149,595	1.87	34.95	1.68	89.4	39,902	6,715	W	W	0.47	66.9

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

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - August 2018 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	W
2017	0	0	--	--	--	0.0	4,346,156	4,201,573	3.08	3.19	94.0	2.54
Year 2016												
January	1,305	49	W	W	5.70	182.6	366,954	353,940	2.80	2.91	93.1	W
February	1,314	47	W	W	5.44	97.1	322,866	312,018	2.43	2.52	93.5	W
March	1,337	48	W	W	5.37	65.3	353,542	341,974	1.89	1.95	94.0	W
April	1,203	44	W	W	5.30	88.5	345,599	334,192	2.07	2.14	94.3	W
May	506	18	W	W	5.28	30.6	384,972	373,040	2.04	2.11	94.6	W
June	348	12	W	W	5.32	20.5	457,044	442,942	2.41	2.49	94.4	W
July	223	8	W	W	5.67	12.1	552,956	535,139	2.66	2.75	94.4	W
August	1,510	55	W	W	5.24	77.3	569,120	549,584	2.62	2.71	94.3	W
Sept	1,483	53	W	W	5.43	90.7	448,820	433,556	2.61	2.70	94.1	W
October	1,549	56	W	W	5.59	78.5	362,466	350,675	2.60	2.69	94.0	W
November	1,294	47	W	W	5.43	83.4	313,867	304,227	2.59	2.67	93.5	W
December	1,501	55	W	W	5.50	84.2	313,521	303,233	3.83	3.95	93.6	W
Year 2017												
January	0	0	--	--	--	0.0	308,232	297,759	3.99	4.13	93.5	2.92
February	0	0	--	--	--	0.0	266,747	257,955	3.34	3.45	94.2	2.58
March	0	0	--	--	--	0.0	308,990	298,914	3.22	3.33	94.1	2.58
April	0	0	--	--	--	0.0	284,267	275,005	3.20	3.31	94.1	W
May	0	0	--	--	--	0.0	315,859	305,704	3.21	3.31	94.8	W
June	0	0	--	--	--	0.0	401,526	388,362	2.93	3.02	94.2	W
July	0	0	--	--	--	0.0	510,414	493,178	2.88	2.98	93.8	W
August	0	0	--	--	--	0.0	490,671	474,207	2.74	2.84	94.5	W
Sept	0	0	--	--	--	0.0	411,228	396,942	2.66	2.75	93.8	W
October	0	0	--	--	--	0.0	370,640	358,457	2.60	2.69	93.3	2.29
November	0	0	--	--	--	0.0	310,865	300,737	3.03	3.13	93.2	2.47
December	0	0	--	--	--	0.0	366,717	354,352	3.64	3.77	94.0	2.91
Year 2018												
January	0	0	--	--	--	0.0	323,796	313,096	5.25	5.43	86.7	3.95
February	0	0	--	--	--	0.0	297,893	288,320	3.36	3.48	84.5	2.78
March	0	0	--	--	--	0.0	328,275	317,199	2.86	2.96	87.0	W
April	0	0	--	--	--	0.0	303,547	293,740	2.94	3.04	87.7	W
May	0	0	--	--	--	0.0	351,345	340,277	2.77	2.86	86.5	2.43
June	0	0	--	--	--	0.0	397,507	384,422	2.87	2.96	87.7	2.49
July	0	0	--	--	--	0.0	530,692	513,624	3.34	3.45	87.0	2.85
August	0	0	--	--	--	0.0	530,050	513,161	3.21	3.32	87.4	W
Year to Date												
2016	7,746	281	2.50	68.81	5.40	62.1	3,353,054	3,242,827	2.40	2.48	94.1	W
2017	0	0	--	--	--	0.0	2,886,706	2,791,084	3.14	3.24	94.1	2.57
2018	0	0	--	--	--	0.0	3,063,104	2,963,840	3.31	3.42	86.9	2.78
Rolling 12 Months Ending in August												
2017	5,827	211	W	W	5.49	30.3	4,325,380	4,182,775	3.04	3.14	94.0	W
2018	0	0	--	--	--	0.0	4,522,554	4,374,328	3.20	3.30	88.9	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, 2008 - August 2018

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	W	W	2.99	3.9	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.2	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.7	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.9	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.2	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.5	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.6	0	0	--	--	--	0.0
December	214	9	W	W	3.05	12.5	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	6.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	6.9	0	0	--	--	--	0.0
March	104	5	W	W	3.02	7.0	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.2	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.8	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	4	0	W	W	2.77	0.4	0	0	--	--	--	0.0
Sept	72	3	W	W	2.96	6.9	0	0	--	--	--	0.0
October	35	2	W	W	2.96	3.6	0	0	--	--	--	0.0
November	13	1	W	W	3.04	1.1	0	0	--	--	--	0.0
December	89	4	W	W	3.01	6.0	0	0	--	--	--	0.0
Year 2018												
January	95	4	W	W	3.11	6.0	0	0	--	--	--	0.0
February	31	1	W	W	3.19	2.5	0	0	--	--	--	0.0
March	5	0	W	W	3.16	0.4	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2016	526	23	W	W	2.95	5.2	0	0	--	--	--	0.0
2017	339	15	W	W	3.00	3.7	0	0	--	--	--	0.0
2018	130	6	W	W	3.13	1.4	0	0	--	--	--	0.0
Rolling 12 Months Ending in August												
2017	1,102	48	W	W	3.06	7.6	0	0	--	--	--	0.0
2018	339	15	W	W	3.04	2.5	0	0	--	--	--	0.0

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2008 - August 2018 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.1	W
2017	0	0	--	--	--	0.0	7,841	7,593	W	W	1.4	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.3	W
February	0	0	--	--	--	0.0	488	477	W	W	4.9	W
March	0	0	--	--	--	0.0	620	610	W	W	6.2	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.1	W
June	0	0	--	--	--	0.0	599	585	W	W	5.3	W
July	0	0	--	--	--	0.0	691	667	W	W	5.0	W
August	0	0	--	--	--	0.0	802	765	W	W	5.6	W
Sept	0	0	--	--	--	0.0	610	591	W	W	5.3	W
October	0	0	--	--	--	0.0	598	575	W	W	5.9	W
November	0	0	--	--	--	0.0	613	589	W	W	6.8	W
December	0	0	--	--	--	0.0	568	549	W	W	5.3	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	1.6	W
February	0	0	--	--	--	0.0	646	624	W	W	1.8	W
March	0	0	--	--	--	0.0	680	662	W	W	1.7	W
April	0	0	--	--	--	0.0	502	490	W	W	1.3	W
May	0	0	--	--	--	0.0	497	483	W	W	1.2	W
June	0	0	--	--	--	0.0	615	595	W	W	1.1	W
July	0	0	--	--	--	0.0	636	613	W	W	1.0	W
August	0	0	--	--	--	0.0	809	778	W	W	1.3	W
Sept	0	0	--	--	--	0.0	707	685	W	W	1.5	W
October	0	0	--	--	--	0.0	605	588	W	W	1.4	W
November	0	0	--	--	--	0.0	749	725	W	W	2.0	W
December	0	0	--	--	--	0.0	734	711	W	W	1.6	W
Year 2018												
January	0	0	--	--	--	0.0	844	818	W	W	1.7	W
February	0	0	--	--	--	0.0	709	688	W	W	1.6	W
March	0	0	--	--	--	0.0	768	746	W	W	1.7	W
April	0	0	--	--	--	0.0	732	713	W	W	1.7	W
May	0	0	--	--	--	0.0	776	758	W	W	1.7	W
June	0	0	--	--	--	0.0	670	650	W	W	1.4	W
July	0	0	--	--	--	0.0	790	760	W	W	1.6	W
August	0	0	--	--	--	0.0	786	764	W	W	1.6	W
Year to Date												
2016	0	0	--	--	--	0.0	5,617	5,461	W	W	6.3	W
2017	0	0	--	--	--	0.0	5,046	4,883	W	W	1.3	W
2018	0	0	--	--	--	0.0	6,076	5,898	W	W	1.6	W
Rolling 12 Months Ending in August												
2017	0	0	--	--	--	0.0	7,435	7,187	W	W	1.8	W
2018	0	0	--	--	--	0.0	8,871	8,607	W	W	1.6	W

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	W	W	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	W	W	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
Year 2016												
January	19,357	897	W	W	1.36	64.2	237	38	11.34	71.47	1.49	18.7
February	17,418	814	W	W	1.42	63.5	342	55	8.70	53.76	1.16	19.8
March	19,181	888	W	W	1.29	69.7	205	33	W	W	1.18	18.5
April	16,048	739	W	W	1.43	68.7	222	36	W	W	1.36	20.8
May	16,376	761	2.67	57.42	1.39	64.6	158	26	11.79	72.81	1.49	11.7
June	18,607	865	2.66	57.25	1.25	69.6	259	42	10.38	64.15	1.45	21.3
July	18,586	875	2.64	56.18	1.23	66.2	85	14	11.10	68.65	1.14	7.1
August	19,629	929	W	W	1.16	71.9	119	19	11.84	73.14	1.11	12.4
Sept	16,052	753	W	W	1.20	65.1	162	27	11.67	71.25	1.12	16.5
October	18,491	879	W	W	1.25	78.1	297	48	10.34	63.78	1.20	25.7
November	14,936	701	W	W	1.27	64.1	283	47	10.57	63.80	1.30	30.7
December	16,067	759	W	W	1.33	59.3	172	28	W	W	1.12	18.0
Year 2017												
January	15,758	742	W	W	1.38	58.7	128	21	11.64	72.27	1.06	12.8
February	15,865	744	W	W	1.18	69.1	121	19	11.56	72.24	1.36	15.1
March	17,861	858	W	W	1.34	75.2	178	29	10.66	66.36	1.22	18.7
April	16,089	759	W	W	1.23	75.3	160	26	W	W	1.27	16.7
May	16,329	796	W	W	1.16	76.3	155	25	W	W	1.21	17.7
June	15,911	757	W	W	1.37	72.5	142	23	W	W	1.11	17.9
July	15,852	763	2.46	51.07	1.30	73.3	95	15	W	W	1.30	12.4
August	16,644	784	W	W	1.36	74.7	110	18	W	W	1.55	14.1
Sept	14,897	715	W	W	1.17	72.2	151	24	W	W	1.51	17.3
October	15,687	741	W	W	1.36	67.5	149	24	11.43	71.09	1.58	16.1
November	15,335	734	W	W	1.43	68.2	199	32	11.67	72.03	1.71	13.2
December	16,408	785	W	W	1.89	68.9	263	42	11.14	69.14	1.79	13.5
Year 2018												
January	15,278	735	W	W	1.12	59.1	408	65	12.64	79.32	1.32	12.3
February	13,828	662	W	W	1.26	59.6	187	30	11.38	71.32	1.20	19.7
March	15,083	722	W	W	1.24	63.4	234	38	W	W	1.32	22.4
April	13,037	622	2.53	53.03	1.29	61.3	153	24	W	W	1.23	16.2
May	14,112	684	2.53	52.15	1.18	65.7	149	24	14.33	87.27	1.47	14.5
June	14,097	679	2.50	51.83	1.23	68.7	107	17	13.54	84.39	1.48	7.5
July	14,451	703	2.42	49.82	1.26	72.1	138	22	14.64	89.87	1.42	12.1
August	13,393	643	2.50	52.09	1.23	68.2	135	22	W	W	1.39	13.1
Year to Date												
2016	145,201	6,767	W	W	1.31	67.2	1,627	263	10.10	62.51	1.31	16.4
2017	130,310	6,203	W	W	1.29	71.6	1,088	174	11.08	69.08	1.25	15.7
2018	113,279	5,449	W	W	1.22	64.4	1,510	242	13.11	81.74	1.32	13.9
Rolling 12 Months Ending in August												
2017	195,857	9,295	W	W	1.28	69.7	2,002	324	W	W	1.23	18.3
2018	175,607	8,425	W	W	1.31	66.0	2,272	365	W	W	1.45	14.1

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - August 2018 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.2	744,034	721,358	W	W	59.6	W
2017	2,356	85	W	W	5.84	8.1	803,435	778,741	W	W	61.9	W
Year 2016												
January	400	15	W	W	5.94	15.3	63,059	61,034	W	W	59.0	W
February	122	4	W	W	6.10	4.3	56,120	54,342	W	W	57.2	W
March	574	21	W	W	5.88	23.8	60,020	58,279	W	W	58.9	W
April	669	25	W	W	5.81	31.0	60,005	58,224	W	W	61.3	W
May	206	8	W	W	5.64	7.0	59,608	57,927	W	W	59.3	W
June	222	8	W	W	5.94	7.0	60,985	59,247	W	W	58.7	W
July	222	8	W	W	5.94	7.0	64,456	62,488	W	W	58.3	W
August	217	8	W	W	5.81	7.2	64,784	62,548	W	W	57.7	W
Sept	200	8	W	W	5.64	9.6	61,346	59,335	W	W	58.7	W
October	207	8	W	W	5.66	7.9	62,185	60,320	W	W	60.7	W
November	200	8	W	W	5.47	7.0	64,265	62,438	W	W	63.4	W
December	427	16	W	W	5.99	15.4	67,201	65,176	W	W	62.7	W
Year 2017												
January	0	0	--	--	--	0.0	69,093	66,857	W	W	62.4	W
February	0	0	--	--	--	0.0	66,939	64,865	W	W	67.1	W
March	0	0	--	--	--	0.0	69,909	67,773	W	W	65.7	W
April	0	0	--	--	--	0.0	66,465	64,429	W	W	65.2	W
May	0	0	--	--	--	0.0	66,784	64,714	W	W	63.7	W
June	271	9	W	W	5.75	9.5	66,331	64,299	W	W	61.6	W
July	253	9	W	W	5.85	9.4	67,662	65,619	W	W	58.6	W
August	296	11	W	W	5.85	10.9	65,688	63,679	W	W	58.7	W
Sept	257	9	W	W	5.85	11.7	62,978	61,019	W	W	59.4	W
October	893	32	W	W	5.85	35.3	63,058	61,209	W	W	58.8	W
November	386	14	W	W	5.85	16.1	66,895	64,843	W	W	62.6	W
December	0	0	--	--	--	0.0	71,633	69,435	W	W	60.6	W
Year 2018												
January	0	0	--	--	--	0.0	67,916	65,839	W	W	57.3	W
February	0	0	--	--	--	0.0	59,419	57,646	W	W	56.6	W
March	0	0	--	--	--	0.0	59,663	57,973	W	W	54.4	W
April	0	0	--	--	--	0.0	60,223	58,528	W	W	56.1	W
May	0	0	--	--	--	0.0	61,846	60,048	W	W	57.7	W
June	0	0	--	--	--	0.0	64,149	62,365	W	W	58.4	W
July	160	6	W	W	5.83	7.3	66,384	64,680	W	W	57.7	W
August	260	10	W	W	5.55	12.5	67,289	65,321	W	W	57.5	W
Year to Date												
2016	2,630	96	W	W	5.87	11.9	489,037	474,090	W	W	58.8	W
2017	821	29	W	W	5.82	4.1	538,871	522,234	W	W	62.7	W
2018	420	16	W	W	5.66	2.7	506,890	492,400	W	W	57.0	W
Rolling 12 Months Ending in August												
2017	1,854	68	W	W	5.78	6.2	793,868	769,503	W	W	62.3	W
2018	1,955	72	W	W	5.81	7.7	771,454	748,906	W	W	58.1	W

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	20	4	358.0%	0	0	20	4	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	4	21.0%	0	0	5	4	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	15	0	--	0	0	15	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,683	2,466	-32.0%	0	62	1,672	2,368	0	0	11	35
New Jersey	37	48	-22.0%	0	0	37	48	0	0	0	0
New York	42	24	72.0%	0	0	42	0	0	0	0	24
Pennsylvania	1,604	2,393	-33.0%	0	62	1,593	2,320	0	0	11	11
East North Central	12,909	13,207	-2.3%	7,548	8,389	5,205	4,609	0	0	156	210
Illinois	4,033	3,753	7.5%	677	683	3,214	2,888	0	0	143	182
Indiana	2,746	2,726	0.7%	2,555	2,593	191	134	0	0	0	0
Michigan	2,469	2,475	-0.2%	2,408	2,473	61	0	0	0	0	1
Ohio	1,936	2,283	-15.0%	197	696	1,739	1,587	0	0	0	0
Wisconsin	1,725	1,970	-12.0%	1,712	1,943	0	0	0	0	13	27
West North Central	10,617	10,808	-1.8%	10,349	10,563	0	0	0	0	268	245
Iowa	1,388	1,433	-3.1%	1,168	1,251	0	0	0	0	220	182
Kansas	1,093	1,153	-5.2%	1,093	1,153	0	0	0	0	0	0
Minnesota	1,134	1,271	-11.0%	1,134	1,271	0	0	0	0	0	0
Missouri	3,276	3,339	-1.9%	3,276	3,339	0	0	0	0	0	0
Nebraska	1,218	1,281	-4.9%	1,170	1,218	0	0	0	0	48	63
North Dakota	2,338	2,191	6.7%	2,338	2,191	0	0	0	0	0	0
South Dakota	170	140	21.0%	170	140	0	0	0	0	0	0
South Atlantic	7,603	8,512	-11.0%	6,629	7,501	919	926	0	0	55	85
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	1,043	1,555	-33.0%	1,033	1,522	0	13	0	0	10	20
Georgia	1,514	1,557	-2.8%	1,511	1,549	0	0	0	0	3	9
Maryland	433	285	52.0%	0	0	420	270	0	0	13	15
North Carolina	1,150	1,418	-19.0%	1,117	1,393	13	6	0	0	20	19
South Carolina	572	558	2.5%	570	558	0	0	0	0	2	0
Virginia	447	639	-30.0%	407	552	32	65	0	0	7	22
West Virginia	2,445	2,499	-2.2%	1,991	1,927	454	572	0	0	0	0
East South Central	5,298	5,798	-8.6%	4,923	5,533	307	183	0	0	68	82
Alabama	1,199	1,596	-25.0%	1,199	1,596	0	0	0	0	0	0
Kentucky	3,139	2,829	11.0%	3,139	2,829	0	0	0	0	0	0
Mississippi	443	435	1.9%	136	251	307	183	0	0	0	0
Tennessee	517	939	-45.0%	449	857	0	0	0	0	68	82
West South Central	10,109	11,307	-11.0%	5,723	5,684	4,367	5,573	0	0	19	49
Arkansas	1,610	1,380	17.0%	1,441	1,182	165	195	0	0	4	4
Louisiana	580	654	-11.0%	334	378	246	276	0	0	0	0
Oklahoma	964	1,143	-16.0%	848	989	101	109	0	0	15	46
Texas	6,954	8,129	-14.0%	3,100	3,136	3,854	4,993	0	0	0	0
Mountain	7,686	9,333	-18.0%	6,931	8,218	755	1,093	0	0	0	22
Arizona	1,545	1,618	-4.5%	1,545	1,618	0	0	0	0	0	0
Colorado	1,272	1,597	-20.0%	1,272	1,597	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	637	974	-35.0%	23	23	613	951	0	0	0	0
Nevada	159	183	-13.0%	98	121	61	61	0	0	0	0
New Mexico	735	1,178	-38.0%	735	1,178	0	0	0	0	0	0
Utah	1,113	1,098	1.4%	1,077	1,040	36	36	0	0	0	22
Wyoming	2,225	2,685	-17.0%	2,180	2,640	45	45	0	0	0	0
Pacific Contiguous	408	611	-33.0%	0	125	342	431	0	0	66	55
California	66	55	20.0%	0	0	0	0	0	0	66	55
Oregon	0	125	-100.0%	0	125	0	0	0	0	0	0
Washington	342	431	-21.0%	0	0	342	431	0	0	0	0
Pacific Noncontiguous	86	78	9.6%	25	17	60	61	0	0	0	0
Alaska	25	17	48.0%	25	17	0	0	0	0	0	0
Hawaii	60	61	-1.2%	0	0	60	61	0	0	0	0
U.S. Total	56,419	62,125	-9.2%	42,128	46,092	13,648	15,249	0	0	643	784

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	208	173	20.0%	45	45	162	128	0	0	0	0
Connecticut	105	0	--	0	0	105	0	0	0	0	0
Maine	42	41	2.2%	0	0	42	41	0	0	0	0
Massachusetts	0	87	-100.0%	0	0	0	87	0	0	0	0
New Hampshire	45	45	0.7%	45	45	0	0	0	0	0	0
Rhode Island	15	0	--	0	0	15	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,887	16,272	-21.0%	0	62	12,813	15,974	0	0	74	235
New Jersey	381	423	-10.0%	0	0	381	423	0	0	0	0
New York	271	244	11.0%	0	0	262	97	0	0	9	147
Pennsylvania	12,236	15,605	-22.0%	0	62	12,170	15,455	0	0	66	88
East North Central	88,516	92,444	-4.2%	52,340	56,379	34,891	34,435	0	0	1,286	1,630
Illinois	27,761	27,281	1.8%	5,169	5,424	21,363	20,378	0	0	1,229	1,479
Indiana	19,728	19,137	3.1%	18,380	18,174	1,348	963	0	0	0	0
Michigan	13,685	15,573	-12.0%	13,521	15,422	159	143	0	0	4	7
Ohio	14,997	17,449	-14.0%	2,977	4,499	12,020	12,950	0	0	0	0
Wisconsin	12,346	13,004	-5.1%	12,293	12,860	0	0	0	0	53	144
West North Central	74,680	76,269	-2.1%	72,467	74,038	0	0	6	15	2,208	2,217
Iowa	9,553	9,811	-2.6%	8,002	8,351	0	0	0	0	1,550	1,461
Kansas	7,744	7,605	1.8%	7,744	7,605	0	0	0	0	0	0
Minnesota	7,606	8,360	-9.0%	7,487	8,109	0	0	0	0	119	251
Missouri	24,033	24,741	-2.9%	24,028	24,726	0	0	6	15	0	0
Nebraska	8,398	9,344	-10.0%	7,860	8,838	0	0	0	0	538	505
North Dakota	16,206	15,493	4.6%	16,206	15,493	0	0	0	0	0	0
South Dakota	1,140	915	25.0%	1,140	915	0	0	0	0	0	0
South Atlantic	51,636	61,450	-16.0%	44,068	53,693	6,961	7,067	0	0	607	690
Delaware	0	200	-100.0%	0	0	0	200	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,581	10,693	-29.0%	7,522	10,552	0	26	0	0	59	115
Georgia	9,309	11,537	-19.0%	9,225	11,468	0	0	0	0	84	68
Maryland	2,908	2,529	15.0%	0	0	2,779	2,398	0	0	129	131
North Carolina	7,690	9,380	-18.0%	7,468	9,117	52	57	0	0	170	207
South Carolina	3,836	4,572	-16.0%	3,825	4,554	0	0	0	0	11	19
Virginia	3,274	4,257	-23.0%	2,779	3,707	341	400	0	0	154	150
West Virginia	17,038	18,282	-6.8%	13,249	14,295	3,789	3,987	0	0	0	0
East South Central	38,293	42,657	-10.0%	35,579	40,185	2,102	1,822	0	0	613	649
Alabama	10,366	10,773	-3.8%	10,366	10,773	0	0	0	0	0	0
Kentucky	20,848	22,823	-8.7%	20,848	22,823	0	0	0	0	0	0
Mississippi	3,139	2,800	12.0%	1,037	978	2,102	1,822	0	0	0	0
Tennessee	3,941	6,261	-37.0%	3,328	5,612	0	0	0	0	613	649
West South Central	67,594	79,744	-15.0%	36,759	36,261	30,598	43,178	0	0	237	305
Arkansas	10,572	8,571	23.0%	8,770	7,787	1,746	737	0	0	57	48
Louisiana	4,552	5,655	-20.0%	2,895	3,426	1,657	2,229	0	0	0	0
Oklahoma	6,177	6,399	-3.5%	5,323	5,458	674	684	0	0	180	258
Texas	46,293	59,118	-22.0%	19,772	19,590	26,521	39,528	0	0	0	0
Mountain	53,063	60,237	-12.0%	47,248	53,834	5,815	6,332	0	0	0	71
Arizona	10,986	10,669	3.0%	10,986	10,669	0	0	0	0	0	0
Colorado	9,627	10,761	-11.0%	9,627	10,761	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,968	5,500	-9.7%	142	185	4,826	5,315	0	0	0	0
Nevada	652	576	13.0%	280	182	372	394	0	0	0	0
New Mexico	4,575	7,577	-40.0%	4,575	7,577	0	0	0	0	0	0
Utah	7,641	8,161	-6.4%	7,366	7,818	275	271	0	0	0	71
Wyoming	14,614	16,993	-14.0%	14,273	16,642	342	352	0	0	0	0
Pacific Contiguous	2,063	2,591	-20.0%	124	289	1,515	1,895	0	0	425	406
California	425	406	4.7%	0	0	0	0	0	0	425	406
Oregon	124	289	-57.0%	124	289	0	0	0	0	0	0
Washington	1,515	1,895	-20.0%	0	0	1,515	1,895	0	0	0	0
Pacific Noncontiguous	616	590	4.4%	128	106	487	484	0	0	0	0
Alaska	128	106	21.0%	128	106	0	0	0	0	0	0
Hawaii	487	484	0.7%	0	0	487	484	0	0	0	0
U.S. Total	389,557	432,426	-9.9%	288,758	314,892	95,344	111,316	6	15	5,449	6,203

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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, August 2018 and 2017
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	1	1	129.0%	1	0	1	1	0	0	0	0
Connecticut	0	0	-1.7%	0	0	0	0	0	0	0	0
Maine	0	0	17.0%	0	0	0	0	0	0	0	0
Massachusetts	0	0	115.0%	0	0	0	0	0	0	0	0
New Hampshire	1	0	--	1	0	0	0	0	0	0	0
Rhode Island	0	0	-100.0%	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	52	49	8.0%	0	0	45	43	0	0	7	6
New Jersey	0	1	-62.0%	0	0	0	1	0	0	0	0
New York	29	2	NM	0	0	28	1	0	0	1	0
Pennsylvania	23	46	-49.0%	0	0	17	40	0	0	6	6
East North Central	60	71	-16.0%	42	40	16	30	0	0	2	0
Illinois	9	8	15.0%	1	1	8	7	0	0	0	0
Indiana	26	10	157.0%	26	10	0	0	0	0	0	0
Michigan	14	15	-6.6%	13	15	0	0	0	0	1	0
Ohio	10	34	-70.0%	1	11	7	23	0	0	2	0
Wisconsin	0	4	-91.0%	0	4	0	0	0	0	0	0
West North Central	26	25	3.2%	26	25	0	0	0	0	0	0
Iowa	4	8	-48.0%	4	8	0	0	0	0	0	0
Kansas	9	7	19.0%	9	7	0	0	0	0	0	0
Minnesota	2	5	-65.0%	2	5	0	0	0	0	0	0
Missouri	7	5	51.0%	7	5	0	0	0	0	0	0
Nebraska	0	0	-100.0%	0	0	0	0	0	0	0	0
North Dakota	5	1	558.0%	5	1	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	168	149	13.0%	124	120	33	18	0	0	12	11
Delaware	4	2	99.0%	0	0	4	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	32	40	-20.0%	29	37	0	0	0	0	3	3
Georgia	21	16	32.0%	19	12	0	1	0	0	3	3
Maryland	8	13	-40.0%	0	0	8	13	0	0	0	0
North Carolina	28	15	89.0%	23	11	0	1	0	0	5	3
South Carolina	7	21	-67.0%	7	20	0	0	0	0	0	1
Virginia	30	21	45.0%	9	19	21	1	0	0	1	0
West Virginia	38	21	78.0%	38	21	0	0	0	0	0	0
East South Central	20	27	-25.0%	20	27	0	0	0	0	1	0
Alabama	4	5	-16.0%	4	5	0	0	0	0	0	0
Kentucky	10	11	-10.0%	10	11	0	0	0	0	0	0
Mississippi	0	1	-100.0%	0	1	0	0	0	0	0	0
Tennessee	6	10	-37.0%	6	10	0	0	0	0	1	0
West South Central	9	13	-29.0%	5	10	4	3	0	0	0	0
Arkansas	4	1	320.0%	0	0	4	1	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-2.1%	1	1	0	0	0	0	0	0
Texas	4	11	-60.0%	4	9	0	2	0	0	0	0
Mountain	21	23	-7.9%	12	20	9	3	0	0	0	0
Arizona	2	5	-59.0%	2	5	0	0	0	0	0	0
Colorado	1	2	-48.0%	1	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	9	2	451.0%	0	0	9	2	0	0	0	0
Nevada	3	2	53.0%	2	1	1	1	0	0	0	0
New Mexico	1	8	-83.0%	1	8	0	0	0	0	0	0
Utah	2	1	61.0%	2	1	0	1	0	0	0	0
Wyoming	2	2	-10.0%	2	2	0	0	0	0	0	0
Pacific Contiguous	3	4	-19.0%	0	3	3	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	3	1	331.0%	0	0	3	1	0	0	0	0
Pacific Noncontiguous	541	801	-32.0%	540	610	1	191	0	0	0	0
Alaska	6	0	NM	6	0	0	0	0	0	0	0
Hawaii	535	801	-33.0%	534	610	1	191	0	0	0	0
U.S. Total	902	1,162	-22.0%	769	855	111	289	0	0	22	18

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	1,144	214	436.0%	116	13	1,027	200	0	0	0	0
Connecticut	185	23	721.0%	0	0	185	23	0	0	0	0
Maine	254	87	191.0%	0	0	254	87	0	0	0	0
Massachusetts	420	84	403.0%	12	4	408	80	0	0	0	0
New Hampshire	184	9	NM	104	9	80	0	0	0	0	0
Rhode Island	100	11	800.0%	0	0	100	11	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,787	587	375.0%	839	185	1,883	342	0	0	65	60
New Jersey	217	10	NM	0	0	217	10	0	0	0	0
New York	1,934	305	535.0%	839	185	1,078	102	0	0	16	18
Pennsylvania	637	272	134.0%	0	0	588	229	0	0	49	42
East North Central	517	550	-6.0%	295	314	202	220	0	0	19	16
Illinois	57	84	-32.0%	3	3	55	81	0	0	0	0
Indiana	130	127	2.9%	129	127	1	0	0	0	0	0
Michigan	102	84	22.0%	97	76	0	0	0	0	5	8
Ohio	185	218	-15.0%	35	70	136	139	0	0	14	9
Wisconsin	42	38	9.7%	31	38	11	0	0	0	0	0
West North Central	324	273	19.0%	324	273	0	0	0	0	0	0
Iowa	84	65	28.0%	84	65	0	0	0	0	0	0
Kansas	64	61	4.0%	64	61	0	0	0	0	0	0
Minnesota	19	28	-33.0%	19	28	0	0	0	0	0	0
Missouri	107	55	96.0%	107	55	0	0	0	0	0	0
Nebraska	3	3	14.0%	3	3	0	0	0	0	0	0
North Dakota	43	55	-22.0%	43	55	0	0	0	0	0	0
South Dakota	4	5	-12.0%	4	5	0	0	0	0	0	0
South Atlantic	2,927	2,364	24.0%	2,073	2,040	698	231	0	0	156	93
Delaware	82	13	514.0%	0	0	82	13	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	326	1,328	-75.0%	293	1,306	0	0	0	0	34	22
Georgia	190	146	31.0%	132	111	25	12	0	0	33	23
Maryland	402	135	197.0%	0	0	402	135	0	0	0	0
North Carolina	690	211	227.0%	654	178	0	11	0	0	35	22
South Carolina	273	108	153.0%	198	94	43	0	0	0	33	14
Virginia	758	299	154.0%	610	227	126	59	0	0	22	12
West Virginia	206	124	67.0%	186	124	20	0	0	0	0	0
East South Central	253	260	-2.6%	192	251	58	4	0	0	3	5
Alabama	114	34	235.0%	56	30	58	4	0	0	0	0
Kentucky	81	116	-31.0%	81	116	0	0	0	0	0	0
Mississippi	12	11	7.6%	12	11	0	0	0	0	0	0
Tennessee	46	98	-53.0%	44	93	0	0	0	0	3	5
West South Central	123	158	-23.0%	93	70	30	89	0	0	0	0
Arkansas	33	60	-46.0%	22	20	11	41	0	0	0	0
Louisiana	7	0	--	7	0	0	0	0	0	0	0
Oklahoma	22	4	448.0%	22	4	0	0	0	0	0	0
Texas	61	94	-35.0%	42	46	19	48	0	0	0	0
Mountain	197	228	-14.0%	171	207	26	21	0	0	0	0
Arizona	61	48	26.0%	61	48	0	0	0	0	0	0
Colorado	5	3	65.0%	5	3	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	21	13	65.0%	0	0	21	13	0	0	0	0
Nevada	14	13	1.2%	10	9	4	5	0	0	0	0
New Mexico	15	47	-68.0%	15	47	0	0	0	0	0	0
Utah	46	46	-0.4%	44	43	1	3	0	0	0	0
Wyoming	35	57	-38.0%	35	57	0	0	0	0	0	0
Pacific Contiguous	10	26	-63.0%	0	14	10	13	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	14	-100.0%	0	14	0	0	0	0	0	0
Washington	10	13	-23.0%	0	0	10	13	0	0	0	0
Pacific Noncontiguous	5,551	5,735	-3.2%	4,565	4,458	986	1,277	0	0	0	0
Alaska	8	1	669.0%	8	1	0	0	0	0	0	0
Hawaii	5,543	5,734	-3.3%	4,557	4,457	986	1,277	0	0	0	0
U.S. Total	13,832	10,394	33.0%	8,670	7,824	4,920	2,395	0	0	242	174

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	59	54	7.5%	59	54	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	53	48	10.0%	53	48	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	6	7	-11.0%	6	7	0	0	0	0	0	0
West North Central	10	11	-8.2%	0	0	0	0	0	0	10	11
Iowa	10	11	-8.2%	0	0	0	0	0	0	10	11
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	76	77	-1.7%	76	77	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	76	77	-1.7%	76	77	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	154	142	8.5%	154	142	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	154	142	8.5%	154	142	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	298	284	4.9%	288	273	0	0	0	0	10	11

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	421	348	21.0%	421	348	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	380	320	19.0%	380	320	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	41	28	46.0%	41	28	0	0	0	0	0	0
West North Central	16	29	-46.0%	0	0	0	0	0	0	16	29
Iowa	16	29	-46.0%	0	0	0	0	0	0	16	29
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	620	447	39.0%	620	447	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	620	447	39.0%	620	447	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	117	-100.0%	0	117	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	117	-100.0%	0	117	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	984	1,234	-20.0%	984	1,234	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	984	1,234	-20.0%	984	1,234	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,041	2,175	-6.2%	2,025	2,145	0	0	0	0	16	29

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	39,250	38,665	1.5%	332	267	38,919	38,398	0	0	0	0
Connecticut	13,484	10,392	30.0%	0	0	13,484	10,392	0	0	0	0
Maine	1,435	1,527	-6.0%	0	0	1,435	1,527	0	0	0	0
Massachusetts	16,266	17,954	-9.4%	187	214	16,079	17,741	0	0	0	0
New Hampshire	4,155	3,470	20.0%	144	54	4,011	3,416	0	0	0	0
Rhode Island	3,910	5,323	-27.0%	0	0	3,910	5,323	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	134,108	119,271	12.0%	12,802	8,960	120,361	109,939	0	0	945	372
New Jersey	29,501	27,024	9.2%	0	0	29,501	27,024	0	0	0	0
New York	47,074	39,509	19.0%	12,802	8,960	33,561	30,327	0	0	711	222
Pennsylvania	57,534	52,739	9.1%	0	0	57,299	52,589	0	0	235	150
East North Central	84,984	70,524	21.0%	30,027	26,346	53,332	42,601	591	613	1,033	964
Illinois	9,561	10,406	-8.1%	1,259	1,012	8,301	9,390	0	0	0	3
Indiana	15,580	10,624	47.0%	5,403	4,611	10,178	6,014	0	0	0	0
Michigan	21,177	18,644	14.0%	7,236	5,916	12,968	11,686	591	613	382	429
Ohio	25,906	19,623	32.0%	5,351	4,841	20,086	14,473	0	0	469	309
Wisconsin	12,760	11,227	14.0%	10,779	9,967	1,798	1,038	0	0	182	222
West North Central	17,932	18,030	-0.5%	15,724	15,477	1,474	1,834	172	166	561	553
Iowa	7,450	6,661	12.0%	6,892	6,109	0	0	0	0	559	552
Kansas	1,678	1,680	-0.1%	1,678	1,680	0	0	0	0	0	0
Minnesota	4,072	3,828	6.4%	4,034	3,033	34	793	1	0	3	1
Missouri	4,409	3,934	12.0%	2,798	2,728	1,440	1,041	171	165	0	0
Nebraska	251	958	-74.0%	251	958	0	0	0	0	0	0
North Dakota	72	437	-84.0%	72	437	0	0	0	0	0	0
South Dakota	0	532	-100.0%	0	532	0	0	0	0	0	0
South Atlantic	261,494	246,211	6.2%	206,800	202,423	51,695	41,087	0	0	3,000	2,702
Delaware	3,878	4,593	-16.0%	0	0	3,878	4,593	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	123,705	123,897	-0.2%	117,474	119,608	5,850	4,121	0	0	381	168
Georgia	31,757	39,597	-20.0%	23,925	29,412	7,284	9,485	0	0	547	700
Maryland	10,879	4,202	159.0%	2,901	0	7,767	4,143	0	0	211	59
North Carolina	31,903	25,679	24.0%	27,398	21,602	4,340	3,850	0	0	166	227
South Carolina	22,039	12,495	76.0%	13,966	10,869	8,025	1,539	0	0	47	88
Virginia	35,457	33,650	5.4%	20,966	20,834	13,555	12,075	0	0	936	741
West Virginia	1,877	2,098	-11.0%	170	98	995	1,281	0	0	711	719
East South Central	97,212	89,526	8.6%	64,573	59,181	31,031	28,689	0	0	1,608	1,655
Alabama	39,407	38,361	2.7%	12,293	12,557	27,114	25,804	0	0	0	0
Kentucky	9,819	8,772	12.0%	9,141	8,392	678	381	0	0	0	0
Mississippi	36,237	33,702	7.5%	32,998	31,198	3,239	2,505	0	0	0	0
Tennessee	11,749	8,689	35.0%	10,141	7,034	0	0	0	0	1,608	1,655
West South Central	291,761	284,828	2.4%	90,325	89,150	145,879	140,903	0	0	55,557	54,776
Arkansas	12,568	11,178	12.0%	11,150	9,923	1,171	1,089	0	0	247	166
Louisiana	44,294	48,056	-7.8%	24,289	25,169	2,679	2,821	0	0	17,326	20,066
Oklahoma	33,262	27,724	20.0%	20,126	16,352	12,545	11,112	0	0	591	260
Texas	201,637	197,870	1.9%	34,759	37,706	129,485	125,880	0	0	37,393	34,284
Mountain	88,528	78,091	13.0%	71,752	62,538	16,734	15,501	0	0	42	52
Arizona	37,395	31,593	18.0%	25,078	20,805	12,316	10,788	0	0	0	0
Colorado	11,355	10,321	10.0%	9,494	8,911	1,861	1,410	0	0	0	0
Idaho	1,066	2,679	-60.0%	1,066	1,480	0	1,199	0	0	0	0
Montana	305	387	-21.0%	305	387	0	0	0	0	0	0
Nevada	22,112	20,801	6.3%	22,112	20,801	0	0	0	0	0	0
New Mexico	8,799	6,656	32.0%	6,244	4,555	2,555	2,100	0	0	0	0
Utah	7,311	5,455	34.0%	7,269	5,403	0	0	0	0	42	52
Wyoming	186	199	-6.4%	185	196	1	3	0	0	0	0
Pacific Contiguous	86,092	95,039	-9.4%	29,781	37,179	53,736	55,256	0	0	2,575	2,604
California	66,509	71,451	-6.9%	20,388	24,572	43,546	44,275	0	0	2,575	2,604
Oregon	11,777	13,429	-12.0%	4,511	6,580	7,266	6,849	0	0	0	0
Washington	7,805	10,159	-23.0%	4,882	6,027	2,924	4,131	0	0	0	0
Pacific Noncontiguous	7	1,227	-99.0%	7	1,227	0	0	0	0	0	0
Alaska	7	1,227	-99.0%	7	1,227	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,101,369	1,041,412	5.8%	522,123	502,748	513,161	474,207	764	778	65,321	63,679

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	207,790	237,331	-12.0%	809	1,060	206,981	236,271	0	0	0	0
Connecticut	80,897	67,367	20.0%	0	0	80,897	67,367	0	0	0	0
Maine	7,260	11,417	-36.0%	0	0	7,260	11,417	0	0	0	0
Massachusetts	84,157	109,334	-23.0%	465	765	83,692	108,569	0	0	0	0
New Hampshire	14,254	17,732	-20.0%	343	295	13,911	17,437	0	0	0	0
Rhode Island	21,221	31,481	-33.0%	0	0	21,221	31,481	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	737,100	754,784	-2.3%	64,075	58,590	665,961	693,618	0	0	7,064	2,576
New Jersey	170,176	185,846	-8.4%	0	0	170,176	185,846	0	0	0	0
New York	235,643	242,262	-2.7%	64,075	58,590	166,496	182,525	0	0	5,072	1,147
Pennsylvania	331,281	326,676	1.4%	0	0	329,289	325,247	0	0	1,992	1,429
East North Central	574,396	475,845	21.0%	207,163	168,930	352,954	293,672	4,489	3,927	9,790	9,315
Illinois	50,956	75,145	-32.0%	5,474	6,006	45,458	69,109	0	0	24	30
Indiana	108,671	77,932	39.0%	48,309	34,195	60,361	43,737	0	0	0	0
Michigan	163,733	131,375	25.0%	49,232	38,825	105,732	84,786	4,489	3,927	4,280	3,836
Ohio	177,112	129,555	37.0%	39,487	37,045	133,969	89,254	0	0	3,655	3,255
Wisconsin	73,924	61,837	20.0%	64,660	52,858	7,434	6,785	0	0	1,830	2,194
West North Central	116,762	112,911	3.4%	100,592	98,402	11,437	11,139	1,409	956	3,324	2,415
Iowa	44,059	26,623	65.0%	40,775	24,313	0	0	0	0	3,284	2,310
Kansas	15,426	11,897	30.0%	15,426	11,897	0	0	0	0	0	0
Minnesota	25,298	33,813	-25.0%	24,525	28,675	726	5,029	6	5	40	104
Missouri	29,814	27,567	8.2%	17,700	20,506	10,711	6,110	1,404	951	0	0
Nebraska	1,720	4,515	-62.0%	1,720	4,515	0	0	0	0	0	0
North Dakota	447	5,118	-91.0%	447	5,118	0	0	0	0	0	0
South Dakota	0	3,379	-100.0%	0	3,379	0	0	0	0	0	0
South Atlantic	1,654,172	1,586,468	4.3%	1,352,220	1,309,579	278,329	254,487	0	0	23,623	22,403
Delaware	21,375	31,215	-32.0%	0	0	21,375	31,215	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	800,678	776,970	3.1%	766,203	748,993	31,792	26,554	0	0	2,683	1,424
Georgia	224,254	255,192	-12.0%	170,108	189,114	48,267	59,954	0	0	5,879	6,124
Maryland	56,748	28,296	101.0%	13,410	0	41,538	26,834	0	0	1,799	1,461
North Carolina	207,792	183,859	13.0%	183,807	156,541	22,156	26,300	0	0	1,829	1,018
South Carolina	105,691	85,545	24.0%	81,106	74,853	24,012	10,033	0	0	573	659
Virginia	227,987	214,863	6.1%	136,270	139,075	85,053	69,491	0	0	6,664	6,296
West Virginia	9,648	10,529	-8.4%	1,316	1,003	4,136	4,106	0	0	4,196	5,421
East South Central	655,269	595,843	10.0%	438,630	407,188	203,759	176,511	0	0	12,880	12,144
Alabama	259,412	244,061	6.3%	84,901	88,121	174,510	155,941	0	0	0	0
Kentucky	72,719	54,639	33.0%	67,490	52,418	5,229	2,221	0	0	0	0
Mississippi	251,738	233,596	7.8%	227,718	215,247	24,020	18,350	0	0	0	0
Tennessee	71,400	63,546	12.0%	58,520	51,402	0	0	0	0	12,880	12,144
West South Central	1,886,918	1,805,201	4.5%	559,851	540,770	910,640	812,646	0	0	416,428	451,785
Arkansas	91,815	86,907	5.6%	81,273	77,629	8,940	7,990	0	0	1,601	1,288
Louisiana	314,077	361,812	-13.0%	157,131	157,523	24,021	23,724	0	0	132,925	180,564
Oklahoma	203,397	159,955	27.0%	120,714	102,393	80,026	56,240	0	0	2,656	1,321
Texas	1,277,630	1,196,527	6.8%	200,731	203,224	797,653	724,692	0	0	279,245	268,611
Mountain	468,147	418,986	12.0%	391,332	347,540	76,387	70,942	0	0	428	504
Arizona	168,612	149,172	13.0%	122,959	108,848	45,653	40,323	0	0	0	0
Colorado	79,273	61,611	29.0%	67,832	52,283	11,441	9,327	0	0	0	0
Idaho	3,550	10,251	-65.0%	3,550	5,559	0	4,692	0	0	0	0
Montana	1,845	2,110	-13.0%	1,845	2,098	0	12	0	0	0	0
Nevada	124,380	121,518	2.4%	124,380	121,518	0	0	0	0	0	0
New Mexico	54,866	47,002	17.0%	35,583	30,428	19,283	16,574	0	0	0	0
Utah	34,657	26,502	31.0%	34,229	25,997	0	0	0	0	428	504
Wyoming	963	822	17.0%	953	809	10	13	0	0	0	0
Pacific Contiguous	438,835	442,376	-0.8%	162,580	179,485	257,391	241,799	0	0	18,864	21,092
California	352,084	356,194	-1.2%	122,234	133,682	210,986	201,420	0	0	18,864	21,092
Oregon	56,353	50,470	12.0%	22,986	24,118	33,367	26,352	0	0	0	0
Washington	30,398	35,712	-15.0%	17,360	21,686	13,038	14,027	0	0	0	0
Pacific Noncontiguous	829	10,031	-92.0%	829	10,031	0	0	0	0	0	0
Alaska	829	10,031	-92.0%	829	10,031	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,740,218	6,439,776	4.7%	3,278,080	3,121,575	2,963,840	2,791,084	5,898	4,883	492,400	522,234

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.09	1.86	12.0%	--	1.66	2.09	1.87
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.04	W	W	--	1.66	2.04	W
East North Central	1.98	2.00	-1.0%	2.12	2.07	1.78	1.88
Illinois	1.70	1.79	-5.0%	1.90	1.87	1.65	1.77
Indiana	W	W	W	2.11	2.11	W	W
Michigan	W	2.12	W	2.12	2.12	W	--
Ohio	W	W	W	1.73	1.71	W	W
Wisconsin	2.31	2.20	5.0%	2.31	2.20	--	--
West North Central	1.72	1.74	-1.1%	1.72	1.74	--	--
Iowa	1.61	1.68	-4.2%	1.61	1.68	--	--
Kansas	1.68	1.70	-1.2%	1.68	1.70	--	--
Minnesota	2.21	2.07	6.8%	2.21	2.07	--	--
Missouri	1.81	1.86	-2.7%	1.81	1.86	--	--
Nebraska	1.25	1.36	-8.1%	1.25	1.36	--	--
North Dakota	1.59	1.56	1.9%	1.59	1.56	--	--
South Dakota	1.95	2.20	-11.0%	1.95	2.20	--	--
South Atlantic	2.64	2.68	-1.5%	2.68	2.71	2.37	2.42
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.86	W	W	2.86	2.93	--	W
Georgia	2.72	2.76	-1.4%	2.72	2.76	--	--
Maryland	2.61	W	W	--	--	2.61	W
North Carolina	W	2.94	W	3.17	2.94	W	3.38
South Carolina	3.28	3.29	-0.3%	3.28	3.29	--	--
Virginia	W	2.86	W	2.68	2.78	W	3.43
West Virginia	W	2.17	W	2.12	2.15	W	2.23
East South Central	W	W	W	2.03	2.13	W	W
Alabama	2.10	2.21	-5.0%	2.10	2.21	--	--
Kentucky	1.96	2.01	-2.5%	1.96	2.01	--	--
Mississippi	W	W	W	2.76	2.70	W	W
Tennessee	2.17	2.26	-4.0%	2.17	2.26	--	--
West South Central	1.86	1.82	2.2%	2.03	2.02	1.63	1.61
Arkansas	W	W	W	2.00	1.93	W	W
Louisiana	W	W	W	3.27	2.31	W	W
Oklahoma	W	W	W	1.80	1.78	W	W
Texas	1.75	1.77	-1.1%	1.98	2.10	1.56	1.55
Mountain	W	W	W	2.08	1.92	W	W
Arizona	2.46	2.14	15.0%	2.46	2.14	--	--
Colorado	1.75	1.70	2.9%	1.75	1.70	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.21	1.81	W	W
Nevada	W	W	W	3.25	3.09	W	W
New Mexico	2.47	2.16	14.0%	2.47	2.16	--	--
Utah	2.04	1.97	3.6%	2.04	1.97	--	--
Wyoming	W	W	W	1.80	1.71	W	W
Pacific Contiguous	W	W	W	--	2.28	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.28	--	--	2.28	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.22	3.17	W	W
Alaska	3.22	3.17	1.6%	3.22	3.17	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.04	0.5%	2.11	2.11	1.87	1.83

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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) August 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	4.25	W	W	3.61	4.34	4.44	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	3.61	4.34	-17.0%	3.61	4.34	--	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.26	1.93	17.0%	--	1.66	2.26	1.93
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.20	1.87	18.0%	--	1.66	2.20	1.87
East North Central	1.98	2.03	-2.5%	2.10	2.12	1.80	1.89
Illinois	1.75	W	W	1.86	1.85	1.72	W
Indiana	W	W	W	2.11	2.17	W	W
Michigan	W	W	W	2.12	2.17	W	W
Ohio	W	1.93	W	1.77	1.73	W	2.00
Wisconsin	2.26	2.26	0.0%	2.26	2.26	--	--
West North Central	1.72	1.76	-2.3%	1.72	1.76	--	--
Iowa	1.68	1.69	-0.6%	1.68	1.69	--	--
Kansas	1.70	1.73	-1.7%	1.70	1.73	--	--
Minnesota	2.16	2.10	2.9%	2.16	2.10	--	--
Missouri	1.82	1.87	-2.7%	1.82	1.87	--	--
Nebraska	1.25	1.38	-9.4%	1.25	1.38	--	--
North Dakota	1.53	1.62	-5.6%	1.53	1.62	--	--
South Dakota	1.93	2.26	-15.0%	1.93	2.26	--	--
South Atlantic	2.63	2.69	-2.2%	2.69	2.72	2.27	2.48
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.87	W	W	2.87	2.95	--	W
Georgia	2.78	2.76	0.7%	2.78	2.76	--	--
Maryland	2.53	2.74	-7.7%	--	--	2.53	2.74
North Carolina	W	2.97	W	3.10	2.96	W	3.60
South Carolina	3.32	3.28	1.2%	3.32	3.28	--	--
Virginia	W	W	W	2.66	2.74	W	W
West Virginia	W	2.19	W	2.14	2.21	W	2.14
East South Central	W	W	W	2.08	2.09	W	W
Alabama	2.28	2.18	4.6%	2.28	2.18	--	--
Kentucky	1.96	1.98	-1.0%	1.96	1.98	--	--
Mississippi	W	W	W	2.63	2.78	W	W
Tennessee	2.16	2.26	-4.4%	2.16	2.26	--	--
West South Central	1.85	1.85	0.0%	2.01	2.09	1.65	1.63
Arkansas	W	W	W	1.95	2.09	W	W
Louisiana	W	W	W	2.57	2.36	W	W
Oklahoma	W	W	W	1.76	1.87	W	W
Texas	1.77	1.77	0.0%	2.02	2.12	1.59	1.58
Mountain	W	W	W	2.03	1.90	W	W
Arizona	2.45	2.24	9.4%	2.45	2.24	--	--
Colorado	1.66	1.80	-7.8%	1.66	1.80	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.01	1.75	W	W
Nevada	W	W	W	2.95	3.08	W	W
New Mexico	2.43	1.98	23.0%	2.43	1.98	--	--
Utah	2.05	1.96	4.6%	2.05	1.96	--	--
Wyoming	W	W	W	1.75	1.63	W	W
Pacific Contiguous	W	W	W	2.26	2.35	W	W
California	--	--	--	--	--	--	--
Oregon	2.26	2.35	-3.8%	2.26	2.35	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.34	3.07	W	W
Alaska	3.34	3.07	8.8%	3.34	3.07	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.06	-0.5%	2.10	2.13	1.89	1.87

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017
New England	16.72	10.87	54.0%	19.57	12.76	13.96	10.83
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	12.76	W	W
New Hampshire	19.57	--	--	19.57	--	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	15.04	12.51	20.0%	--	11.01	15.04	12.51
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	11.01	W	W
Pennsylvania	W	12.51	W	--	--	W	12.51
East North Central	16.74	13.22	27.0%	16.53	13.07	17.30	13.42
Illinois	W	14.07	W	16.88	13.02	W	14.20
Indiana	16.58	12.97	28.0%	16.58	12.97	--	--
Michigan	16.44	12.50	32.0%	16.44	12.50	--	--
Ohio	W	13.53	W	16.98	14.15	W	13.23
Wisconsin	14.80	12.43	19.0%	14.80	12.43	--	--
West North Central	16.50	12.89	28.0%	16.50	12.89	--	--
Iowa	16.41	12.94	27.0%	16.41	12.94	--	--
Kansas	16.73	12.94	29.0%	16.73	12.94	--	--
Minnesota	15.63	12.71	23.0%	15.63	12.71	--	--
Missouri	16.40	12.85	28.0%	16.40	12.85	--	--
Nebraska	--	12.40	--	--	12.40	--	--
North Dakota	16.62	13.48	23.0%	16.62	13.48	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	16.21	12.43	30.0%	16.33	12.51	15.74	11.92
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.32	12.96	26.0%	16.32	12.96	--	--
Georgia	15.95	W	W	15.95	12.43	--	W
Maryland	W	11.78	W	--	--	W	11.78
North Carolina	16.26	W	W	16.26	12.52	--	W
South Carolina	16.50	12.62	31.0%	16.50	12.62	--	--
Virginia	W	W	W	16.82	11.95	W	W
West Virginia	16.44	12.18	35.0%	16.44	12.18	--	--
East South Central	16.20	12.53	29.0%	16.20	12.53	--	--
Alabama	16.53	13.15	26.0%	16.53	13.15	--	--
Kentucky	16.05	12.68	27.0%	16.05	12.68	--	--
Mississippi	--	11.87	--	--	11.87	--	--
Tennessee	16.24	12.14	34.0%	16.24	12.14	--	--
West South Central	W	12.27	W	16.70	12.15	W	12.67
Arkansas	W	W	W	--	11.76	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	17.16	13.51	27.0%	17.16	13.51	--	--
Texas	W	W	W	16.62	12.06	W	W
Mountain	W	14.05	W	18.89	14.09	W	13.73
Arizona	18.14	13.72	32.0%	18.14	13.72	--	--
Colorado	18.41	14.13	30.0%	18.41	14.13	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.21	13.15	W	W
New Mexico	21.35	14.31	49.0%	21.35	14.31	--	--
Utah	21.63	W	W	21.63	15.33	--	W
Wyoming	16.06	14.23	13.0%	16.06	14.23	--	--
Pacific Contiguous	W	W	W	--	11.19	W	W
California	--	--	--	--	--	--	--
Oregon	--	11.19	--	--	11.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	14.51	10.51	W	W
Alaska	17.43	11.69	49.0%	17.43	11.69	--	--
Hawaii	W	W	W	14.48	10.51	W	W
U.S. Total	W	W	W	15.08	11.12	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	W	W	W	11.44	14.19	W	W
Connecticut	16.94	W	W	--	--	16.94	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	15.00	14.68	W	W
New Hampshire	W	13.97	W	11.06	13.97	W	--
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.60	W	W	12.28	9.39	14.36	W
New Jersey	15.08	W	W	--	--	15.08	W
New York	13.07	12.78	2.3%	12.28	9.39	13.75	19.07
Pennsylvania	15.90	12.17	31.0%	--	--	15.90	12.17
East North Central	16.15	12.39	30.0%	16.31	12.22	15.90	12.66
Illinois	W	13.45	W	16.11	12.12	W	13.51
Indiana	W	12.03	W	16.26	12.03	W	--
Michigan	15.83	11.80	34.0%	15.83	11.80	--	--
Ohio	15.88	12.58	26.0%	16.39	13.21	15.74	12.26
Wisconsin	17.90	11.89	51.0%	17.90	11.89	--	--
West North Central	16.14	12.17	33.0%	16.14	12.17	--	--
Iowa	16.12	12.39	30.0%	16.12	12.39	--	--
Kansas	16.29	12.13	34.0%	16.29	12.13	--	--
Minnesota	16.61	12.13	37.0%	16.61	12.13	--	--
Missouri	16.04	12.19	32.0%	16.04	12.19	--	--
Nebraska	16.00	11.80	36.0%	16.00	11.80	--	--
North Dakota	15.89	12.02	32.0%	15.89	12.02	--	--
South Dakota	17.15	11.98	43.0%	17.15	11.98	--	--
South Atlantic	14.33	W	W	14.42	12.23	14.05	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	16.09	12.34	30.0%	16.09	12.34	--	--
Georgia	W	11.50	W	15.50	11.66	W	9.66
Maryland	14.32	10.85	32.0%	--	--	14.32	10.85
North Carolina	17.01	W	W	17.01	12.01	--	W
South Carolina	16.81	12.35	36.0%	16.81	12.35	--	--
Virginia	W	W	W	9.80	11.88	W	W
West Virginia	W	12.38	W	16.60	12.38	W	--
East South Central	W	W	W	15.89	11.92	W	W
Alabama	W	W	W	16.28	12.69	W	W
Kentucky	15.83	11.97	32.0%	15.83	11.97	--	--
Mississippi	15.22	11.65	31.0%	15.22	11.65	--	--
Tennessee	15.71	11.66	35.0%	15.71	11.66	--	--
West South Central	16.00	12.17	31.0%	15.99	11.84	16.06	12.42
Arkansas	W	W	W	15.99	11.71	W	W
Louisiana	15.04	--	--	15.04	--	--	--
Oklahoma	16.01	13.01	23.0%	16.01	13.01	--	--
Texas	W	W	W	16.13	11.80	W	W
Mountain	W	13.35	W	17.89	13.36	W	13.29
Arizona	16.25	13.02	25.0%	16.25	13.02	--	--
Colorado	17.43	13.60	28.0%	17.43	13.60	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.31	12.15	W	W
New Mexico	18.26	12.94	41.0%	18.26	12.94	--	--
Utah	W	W	W	19.24	13.92	W	W
Wyoming	18.73	13.71	37.0%	18.73	13.71	--	--
Pacific Contiguous	W	W	W	--	12.71	W	W
California	--	--	--	--	--	--	--
Oregon	--	12.71	--	--	12.71	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	13.43	10.72	W	W
Alaska	17.51	15.58	12.0%	17.51	15.58	--	--
Hawaii	W	W	W	13.43	10.72	W	W
U.S. Total	13.92	11.45	22.0%	13.87	11.30	14.04	11.96

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.51	1.47	2.7%	1.51	1.47	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.48	1.43	3.5%	1.48	1.43	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.75	1.1%	1.77	1.75	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.64	2.45	49.0%	3.64	2.45	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.64	2.45	49.0%	3.64	2.45	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.89	2.16	34.0%	2.89	2.16	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.89	2.16	34.0%	2.89	2.16	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.82	2.11	34.0%	2.82	2.11	--	--

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.52	1.48	2.7%	1.52	1.48	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.49	1.46	2.1%	1.49	1.46	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.79	-1.1%	1.77	1.79	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.14	2.53	24.0%	3.14	2.53	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.14	2.53	24.0%	3.14	2.53	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.50	--	--	1.50	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.50	--	--	1.50	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.68	2.13	26.0%	2.68	2.13	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.68	2.13	26.0%	2.68	2.13	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.59	2.08	25.0%	2.59	2.08	--	--

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018	August 2017	Percentage Change	August 2018	August 2017	August 2018	August 2017
New England	W	2.63	W	4.70	3.08	W	2.62
Connecticut	3.13	2.79	12.0%	--	--	3.13	2.79
Maine	--	W	W	--	--	--	W
Massachusetts	3.11	2.43	28.0%	3.72	2.93	3.10	2.42
New Hampshire	W	W	W	5.93	3.63	W	W
Rhode Island	W	2.69	W	--	--	W	2.69
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.88	2.19	32.0%	3.29	2.56	2.83	2.15
New Jersey	2.85	2.01	42.0%	--	--	2.85	2.01
New York	3.12	2.53	23.0%	3.29	2.56	3.05	2.52
Pennsylvania	2.71	2.01	35.0%	--	--	2.71	2.01
East North Central	3.04	2.96	2.7%	3.12	3.07	2.99	2.90
Illinois	3.11	W	W	3.09	3.40	3.11	W
Indiana	3.07	W	W	3.18	3.31	3.01	W
Michigan	3.25	3.15	3.2%	3.50	3.44	3.11	3.00
Ohio	2.87	2.62	9.5%	2.87	2.41	2.87	2.68
Wisconsin	2.97	3.04	-2.3%	2.97	3.04	--	--
West North Central	W	W	W	2.95	3.12	W	W
Iowa	2.78	2.55	9.0%	2.78	2.55	--	--
Kansas	3.14	3.42	-8.2%	3.14	3.42	--	--
Minnesota	W	W	W	3.21	3.66	W	W
Missouri	W	W	W	2.80	3.40	W	W
Nebraska	3.46	3.41	1.5%	3.46	3.41	--	--
North Dakota	3.18	4.44	-28.0%	3.18	4.44	--	--
South Dakota	--	2.75	--	--	2.75	--	--
South Atlantic	3.63	3.69	-1.6%	3.71	3.81	3.16	2.91
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.92	4.12	W	W
Georgia	W	3.23	W	3.49	3.28	W	3.04
Maryland	3.35	3.11	7.7%	3.46	--	3.31	3.11
North Carolina	W	W	W	3.47	3.75	W	W
South Carolina	W	W	W	3.35	3.46	W	W
Virginia	3.21	2.80	15.0%	3.34	3.01	2.94	2.27
West Virginia	W	2.57	W	2.89	2.61	W	2.57
East South Central	3.08	3.12	-1.3%	3.05	3.10	3.15	3.16
Alabama	W	W	W	3.21	3.18	W	W
Kentucky	W	W	W	3.18	3.39	W	W
Mississippi	W	W	W	3.01	3.04	W	W
Tennessee	2.87	2.87	0.0%	2.87	2.87	--	--
West South Central	2.93	3.00	-2.3%	2.85	3.08	2.99	2.94
Arkansas	W	W	W	3.05	3.13	W	W
Louisiana	W	W	W	3.09	3.18	W	W
Oklahoma	W	W	W	2.46	2.94	W	W
Texas	2.97	2.98	-0.3%	2.84	3.07	3.01	2.95
Mountain	3.10	W	W	3.03	3.21	3.65	W
Arizona	W	W	W	3.03	3.40	W	W
Colorado	W	W	W	3.21	3.14	W	W
Idaho	2.69	3.06	-12.0%	2.69	3.06	--	--
Montana	0.99	1.47	-33.0%	0.99	1.47	--	--
Nevada	3.28	3.15	4.1%	3.28	3.15	--	--
New Mexico	2.34	3.33	-30.0%	2.34	3.33	--	--
Utah	2.77	2.93	-5.5%	2.77	2.93	--	--
Wyoming	W	W	W	2.71	2.92	W	W
Pacific Contiguous	4.87	3.30	48.0%	4.15	3.43	5.44	3.17
California	5.70	3.63	57.0%	5.02	3.96	6.16	3.35
Oregon	W	W	W	2.00	2.31	W	W
Washington	W	W	W	2.93	2.93	W	W
Pacific Noncontiguous	7.72	6.87	12.0%	7.72	6.87	--	--
Alaska	7.72	6.87	12.0%	7.72	6.87	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.28	3.13	4.8%	3.34	3.42	3.21	2.74

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2018 YTD	August 2017 YTD	Percentage Change	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	W	3.71	W	4.44	3.49	W	3.71
Connecticut	4.47	4.36	2.5%	--	--	4.47	4.36
Maine	W	W	W	--	--	W	W
Massachusetts	4.85	3.37	44.0%	3.46	3.35	4.86	3.37
New Hampshire	W	W	W	5.74	3.83	W	W
Rhode Island	W	3.50	W	--	--	W	3.50
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.25	2.98	9.1%	4.01	3.55	3.16	2.92
New Jersey	3.15	2.78	13.0%	--	--	3.15	2.78
New York	3.71	3.43	8.2%	4.01	3.55	3.57	3.39
Pennsylvania	2.97	2.75	8.0%	--	--	2.97	2.75
East North Central	3.01	3.15	-4.4%	3.16	3.23	2.93	3.10
Illinois	3.16	3.26	-3.1%	3.20	3.62	3.16	3.23
Indiana	3.09	W	W	3.24	3.22	2.96	W
Michigan	3.07	3.22	-4.7%	3.33	3.40	2.96	3.14
Ohio	2.84	2.98	-4.7%	2.92	2.91	2.82	3.01
Wisconsin	3.11	W	W	3.11	3.30	--	W
West North Central	W	W	W	2.91	3.43	W	W
Iowa	2.67	2.82	-5.3%	2.67	2.82	--	--
Kansas	2.98	3.78	-21.0%	2.98	3.78	--	--
Minnesota	W	W	W	3.28	3.84	W	W
Missouri	W	W	W	2.75	3.32	W	W
Nebraska	3.54	3.80	-6.8%	3.54	3.80	--	--
North Dakota	5.38	3.56	51.0%	5.38	3.56	--	--
South Dakota	--	3.00	--	--	3.00	--	--
South Atlantic	4.15	3.86	7.5%	4.23	3.95	3.58	3.22
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.13	W	4.25	4.13	W	3.73
Georgia	W	3.49	W	3.63	3.57	W	3.21
Maryland	3.86	3.50	10.0%	3.29	--	4.04	3.50
North Carolina	W	W	W	4.55	4.02	W	W
South Carolina	W	W	W	3.73	3.52	W	W
Virginia	4.30	3.39	27.0%	4.87	3.60	2.96	2.68
West Virginia	W	W	W	3.17	3.00	W	W
East South Central	3.14	3.28	-4.3%	3.13	3.28	3.15	3.29
Alabama	W	W	W	3.19	3.40	W	W
Kentucky	W	W	W	3.42	3.63	W	W
Mississippi	W	W	W	3.07	3.18	W	W
Tennessee	2.94	3.07	-4.2%	2.94	3.07	--	--
West South Central	2.96	3.16	-6.3%	2.93	3.26	2.98	3.08
Arkansas	W	W	W	3.03	3.33	W	W
Louisiana	W	W	W	3.16	3.31	W	W
Oklahoma	W	W	W	2.57	3.22	W	W
Texas	2.98	3.12	-4.5%	2.93	3.22	2.99	3.09
Mountain	2.99	W	W	2.96	3.50	3.55	W
Arizona	W	W	W	2.93	3.68	W	W
Colorado	W	W	W	3.52	3.42	W	W
Idaho	2.64	3.40	-22.0%	2.64	3.40	--	--
Montana	1.33	W	W	1.33	1.94	--	W
Nevada	2.90	3.45	-16.0%	2.90	3.45	--	--
New Mexico	2.49	3.44	-28.0%	2.49	3.44	--	--
Utah	2.72	3.33	-18.0%	2.72	3.33	--	--
Wyoming	W	W	W	2.85	4.07	W	W
Pacific Contiguous	4.17	3.50	19.0%	3.74	3.72	4.56	3.27
California	4.68	3.67	28.0%	4.23	4.06	5.06	3.32
Oregon	W	W	W	2.06	2.52	W	W
Washington	W	W	W	3.00	3.48	W	W
Pacific Noncontiguous	8.07	7.01	15.0%	8.07	7.01	--	--
Alaska	8.07	7.01	15.0%	8.07	7.01	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.46	3.42	1.2%	3.57	3.62	3.31	3.14

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, August 2018

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	5	0.73	7.4	15	0.09	2.0	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	15	0.09	2.0	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,302	2.81	9.1	0	--	--	0	--	--
New Jersey	37	1.54	8.0	0	--	--	0	--	--
New York	42	2.96	8.7	0	--	--	0	--	--
Pennsylvania	1,222	2.85	9.1	0	--	--	0	--	--
East North Central	5,619	3.21	10.6	7,290	0.24	4.7	0	--	--
Illinois	960	3.54	20.2	3,073	0.22	4.6	0	--	--
Indiana	2,477	2.84	8.9	269	0.20	4.4	0	--	--
Michigan	186	1.81	7.0	2,283	0.28	4.7	0	--	--
Ohio	1,936	3.69	9.4	0	--	--	0	--	--
Wisconsin	60	1.88	8.2	1,665	0.23	4.9	0	--	--
West North Central	125	2.93	9.3	8,154	0.27	5.1	2,338	0.81	10.0
Iowa	49	2.76	8.4	1,339	0.23	4.7	0	--	--
Kansas	17	3.30	13.2	1,076	0.30	5.0	0	--	--
Minnesota	0	--	--	1,134	0.36	6.6	0	--	--
Missouri	59	2.97	9.0	3,217	0.23	4.8	0	--	--
Nebraska	0	--	--	1,218	0.30	5.3	0	--	--
North Dakota	0	--	--	0	--	--	2,338	0.81	10.0
South Dakota	0	--	--	170	0.32	5.3	0	--	--
South Atlantic	6,727	2.38	9.9	842	0.30	4.5	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,043	2.57	8.2	0	--	--	0	--	--
Georgia	672	2.68	8.1	842	0.30	4.5	0	--	--
Maryland	433	2.16	9.8	0	--	--	0	--	--
North Carolina	1,150	1.75	9.6	0	--	--	0	--	--
South Carolina	572	1.73	9.5	0	--	--	0	--	--
Virginia	447	1.11	19.3	0	--	--	0	--	--
West Virginia	2,411	2.91	10.0	0	--	--	0	--	--
East South Central	3,360	2.82	9.2	1,631	0.27	5.2	307	0.49	13.5
Alabama	396	1.69	9.1	803	0.30	5.4	0	--	--
Kentucky	2,496	3.13	9.3	643	0.23	5.0	0	--	--
Mississippi	25	0.42	7.2	112	0.30	5.1	307	0.49	13.5
Tennessee	444	2.17	8.5	73	0.29	5.2	0	--	--
West South Central	87	2.71	19.7	7,564	0.26	5.1	2,458	1.16	16.7
Arkansas	4	0.39	10.7	1,607	0.23	5.0	0	--	--
Louisiana	38	2.78	9.0	418	0.27	5.1	125	0.55	16.8
Oklahoma	45	2.90	30.9	919	0.24	4.7	0	--	--
Texas	0	--	--	4,620	0.28	5.2	2,333	1.20	16.7
Mountain	2,096	0.55	13.1	5,530	0.50	8.9	23	0.64	9.7
Arizona	623	0.66	10.5	922	0.64	10.7	0	--	--
Colorado	151	0.49	13.6	1,121	0.33	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	613	0.69	9.2	23	0.64	9.7
Nevada	0	--	--	159	0.37	7.3	0	--	--
New Mexico	291	0.58	22.0	444	0.73	21.3	0	--	--
Utah	1,031	0.49	12.3	46	0.87	9.4	0	--	--
Wyoming	0	--	--	2,225	0.43	7.3	0	--	--
Pacific Contiguous	66	0.35	10.3	338	0.37	9.4	0	--	--
California	66	0.35	10.3	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	338	0.37	9.4	0	--	--
Pacific Noncontiguous	0	--	--	60	0.23	5.0	15	0.13	7.2
Alaska	0	--	--	0	--	--	15	0.13	7.2
Hawaii	0	--	--	60	0.23	5.0	0	--	--
U.S. Total	19,387	2.54	10.3	31,424	0.30	5.7	5,141	0.96	13.4

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 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, August 2018

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	2,873	2.89	8.9	4,675	0.25	4.7	0	--	--
Illinois	218	3.15	10.8	458	0.23	4.8	0	--	--
Indiana	2,286	2.79	8.8	269	0.20	4.4	0	--	--
Michigan	125	2.21	7.2	2,283	0.28	4.7	0	--	--
Ohio	197	4.23	9.5	0	--	--	0	--	--
Wisconsin	47	2.21	7.6	1,665	0.23	4.9	0	--	--
West North Central	76	3.04	9.9	7,935	0.27	5.2	2,338	0.81	10.0
Iowa	0	--	--	1,168	0.24	4.8	0	--	--
Kansas	17	3.30	13.2	1,076	0.30	5.0	0	--	--
Minnesota	0	--	--	1,134	0.36	6.6	0	--	--
Missouri	59	2.97	9.0	3,217	0.23	4.8	0	--	--
Nebraska	0	--	--	1,170	0.30	5.3	0	--	--
North Dakota	0	--	--	0	--	--	2,338	0.81	10.0
South Dakota	0	--	--	170	0.32	5.3	0	--	--
South Atlantic	5,787	2.38	10.1	842	0.30	4.5	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,033	2.59	8.2	0	--	--	0	--	--
Georgia	669	2.68	8.1	842	0.30	4.5	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,117	1.79	9.7	0	--	--	0	--	--
South Carolina	570	1.74	9.5	0	--	--	0	--	--
Virginia	407	1.15	20.6	0	--	--	0	--	--
West Virginia	1,991	2.88	10.4	0	--	--	0	--	--
East South Central	3,292	2.87	9.2	1,631	0.27	5.2	0	--	--
Alabama	396	1.69	9.1	803	0.30	5.4	0	--	--
Kentucky	2,496	3.13	9.3	643	0.23	5.0	0	--	--
Mississippi	25	0.42	7.2	112	0.30	5.1	0	--	--
Tennessee	376	2.42	8.6	73	0.29	5.2	0	--	--
West South Central	38	2.78	9.0	4,836	0.25	4.9	849	1.66	19.4
Arkansas	0	--	--	1,441	0.23	4.9	0	--	--
Louisiana	38	2.78	9.0	172	0.25	5.3	125	0.55	16.8
Oklahoma	0	--	--	848	0.24	4.7	0	--	--
Texas	0	--	--	2,375	0.27	5.0	725	1.87	19.9
Mountain	2,096	0.55	13.1	4,811	0.48	9.0	23	0.64	9.7
Arizona	623	0.66	10.5	922	0.64	10.7	0	--	--
Colorado	151	0.49	13.6	1,121	0.33	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	23	0.64	9.7
Nevada	0	--	--	98	0.44	8.8	0	--	--
New Mexico	291	0.58	22.0	444	0.73	21.3	0	--	--
Utah	1,031	0.49	12.3	46	0.87	9.4	0	--	--
Wyoming	0	--	--	2,180	0.43	7.4	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	15	0.13	7.2
Alaska	0	--	--	0	--	--	15	0.13	7.2
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	14,162	2.35	10.1	24,730	0.31	5.8	3,225	1.02	12.4

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 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, August 2018

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	5	0.73	7.4	15	0.09	2.0	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	15	0.09	2.0	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,291	2.82	9.1	0	--	--	0	--	--
New Jersey	37	1.54	8.0	0	--	--	0	--	--
New York	42	2.96	8.7	0	--	--	0	--	--
Pennsylvania	1,211	2.85	9.1	0	--	--	0	--	--
East North Central	2,639	3.56	12.5	2,566	0.20	4.5	0	--	--
Illinois	648	3.68	26.2	2,566	0.20	4.5	0	--	--
Indiana	191	3.41	9.7	0	--	--	0	--	--
Michigan	61	0.84	6.4	0	--	--	0	--	--
Ohio	1,739	3.63	9.4	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	885	2.51	8.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	420	2.17	9.6	0	--	--	0	--	--
North Carolina	13	0.70	5.6	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	32	0.81	8.7	0	--	--	0	--	--
West Virginia	420	3.04	8.3	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	307	0.49	13.5
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	307	0.49	13.5
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	45	2.90	30.9	2,713	0.29	5.3	1,609	0.93	15.3
Arkansas	0	--	--	165	0.22	6.1	0	--	--
Louisiana	0	--	--	246	0.28	4.9	0	--	--
Oklahoma	45	2.90	30.9	56	0.23	4.8	0	--	--
Texas	0	--	--	2,245	0.30	5.3	1,609	0.93	15.3
Mountain	0	--	--	719	0.64	8.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	613	0.69	9.2	0	--	--
Nevada	0	--	--	61	0.26	4.7	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.38	5.3	0	--	--
Pacific Contiguous	0	--	--	338	0.37	9.4	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	338	0.37	9.4	0	--	--
Pacific Noncontiguous	0	--	--	60	0.23	5.0	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.23	5.0	0	--	--
U.S. Total	4,865	3.14	10.9	6,411	0.30	5.6	1,916	0.87	15.1

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 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, August 2018

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	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	--	--	0	--	--	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, August 2018

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	11	2.28	8.1	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.28	8.1	0	--	--	0	--	--
East North Central	107	3.28	8.8	49	0.87	6.5	0	--	--
Illinois	94	3.70	8.5	49	0.87	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.82	6.5	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	10.9	0	--	--	0	--	--
West North Central	49	2.76	8.4	219	0.21	4.5	0	--	--
Iowa	49	2.76	8.4	171	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	48	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	55	0.99	10.1	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	10	0.74	8.1	0	--	--	0	--	--
Georgia	3	1.21	9.3	0	--	--	0	--	--
Maryland	13	1.78	21.2	0	--	--	0	--	--
North Carolina	20	0.81	6.9	0	--	--	0	--	--
South Carolina	2	0.70	8.9	0	--	--	0	--	--
Virginia	7	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	68	0.92	8.3	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	68	0.92	8.3	0	--	--	0	--	--
West South Central	4	0.39	10.7	15	0.23	4.5	0	--	--
Arkansas	4	0.39	10.7	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	15	0.23	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	0.35	10.3	0	--	--	0	--	--
California	66	0.35	10.3	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	360	1.76	9.1	283	0.33	4.8	0	--	--

Displayed values of zero may represent small values that round to zero.
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W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2018 are preliminary. Values for 2017 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2008 - August 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,411,058	1,367,191	976,715	7,497	3,762,462
2017	1,378,648	1,353,358	984,298	7,523	3,723,826
Year 2016					
January	130,972	110,410	78,848	660	320,890
February	115,959	103,452	76,748	646	296,806
March	100,227	105,739	79,237	609	285,812
April	88,244	102,045	78,647	595	269,531
May	94,198	108,437	81,491	581	284,708
June	125,211	120,363	83,672	631	329,878
July	154,409	130,038	87,076	648	372,172
August	156,442	135,019	89,101	631	381,192
Sept	129,363	123,493	83,259	637	336,752
October	101,508	112,963	81,597	613	296,681
November	93,244	105,060	78,421	592	277,317
December	121,281	110,172	78,616	653	310,722
Year 2017					
January	129,212	109,527	78,809	667	318,215
February	100,968	99,675	74,534	635	275,813
March	103,096	107,209	80,530	645	291,479
April	90,725	102,625	78,899	589	272,837
May	98,281	109,910	83,134	583	291,908
June	122,543	120,054	85,399	628	328,624
July	149,900	129,323	87,806	630	367,659
August	142,007	128,527	89,134	640	360,309
Sept	118,779	118,831	83,540	618	321,768
October	102,811	113,326	82,815	626	299,578
November	98,321	105,009	79,456	598	283,383
December	122,005	109,342	80,242	664	312,252
Year 2018					
January	148,978	114,634	76,059	751	340,422
February	113,383	102,018	71,946	643	287,990
March	106,939	107,902	76,810	625	292,276
April	95,128	102,940	75,241	608	273,917
May	103,453	112,622	81,461	591	298,126
June	129,478	121,597	81,528	628	333,231
July	153,071	130,955	85,094	640	369,759
August	152,636	134,333	88,761	686	376,416
Year to Date					
2016	965,662	915,504	654,821	5,003	2,540,990
2017	936,733	906,850	658,245	5,017	2,506,845
2018	1,003,065	927,001	636,899	5,172	2,572,137
Rolling 12 Months Ending in August					
2017	1,382,129	1,358,538	980,140	7,511	3,728,317
2018	1,444,980	1,373,509	962,951	7,678	3,789,118

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	177,077	142,643	66,068	722	386,509
2017	177,661	144,260	67,691	728	390,340
Year 2016					
January	15,704	11,133	5,080	63	31,980
February	14,076	10,605	4,927	62	29,670
March	12,593	10,815	5,122	58	28,587
April	10,967	10,398	5,065	57	26,486
May	12,048	11,184	5,357	54	28,643
June	15,942	12,828	5,879	62	34,710
July	19,575	13,891	6,294	64	39,823
August	20,157	14,530	6,440	63	41,191
Sept	16,652	13,298	5,947	64	35,961
October	12,648	11,914	5,491	59	30,111
November	11,886	10,840	5,225	55	28,007
December	14,830	11,206	5,242	62	31,339
Year 2017					
January	15,781	11,184	5,190	63	32,218
February	12,911	10,444	4,941	60	28,355
March	13,289	11,209	5,407	61	29,966
April	11,536	10,670	5,209	56	27,471
May	12,843	11,639	5,639	56	30,178
June	16,171	13,211	6,141	64	35,587
July	19,606	14,185	6,416	64	40,271
August	18,679	14,143	6,435	64	39,322
Sept	15,772	13,106	5,992	62	34,931
October	13,164	12,210	5,725	60	31,159
November	12,721	11,018	5,345	57	29,141
December	15,189	11,241	5,249	62	31,741
Year 2018					
January	18,254	12,020	5,288	71	35,633
February	14,354	10,857	4,896	63	30,170
March	13,892	11,315	5,114	59	30,380
April	12,256	10,744	4,951	57	28,009
May	13,604	11,819	5,553	56	31,033
June	16,891	13,155	5,854	64	35,964
July	20,096	14,370	6,247	65	40,778
August	20,306	14,792	6,430	66	41,594
Year to Date					
2016	121,061	95,384	44,163	483	261,091
2017	120,816	96,686	45,379	488	263,369
2018	129,654	99,073	44,333	501	273,561
Rolling 12 Months Ending in August					
2017	176,832	143,944	67,284	727	388,787
2018	186,500	146,647	66,644	741	400,532

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
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Sources: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Industry Power Report.
Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.43	6.76	9.63	10.27
2017	12.89	10.66	6.88	9.68	10.48
Year 2016					
January	11.99	10.08	6.44	9.52	9.97
February	12.14	10.25	6.42	9.61	10.00
March	12.56	10.23	6.46	9.56	10.00
April	12.43	10.19	6.44	9.53	9.83
May	12.79	10.31	6.57	9.28	10.06
June	12.73	10.66	7.03	9.75	10.52
July	12.68	10.68	7.23	9.84	10.70
August	12.88	10.76	7.23	10.04	10.81
Sept	12.87	10.77	7.14	10.00	10.68
October	12.46	10.55	6.73	9.62	10.15
November	12.75	10.32	6.66	9.22	10.10
December	12.23	10.17	6.67	9.49	10.09
Year 2017					
January	12.21	10.21	6.59	9.39	10.12
February	12.79	10.48	6.63	9.50	10.28
March	12.89	10.46	6.71	9.49	10.28
April	12.72	10.40	6.60	9.46	10.07
May	13.07	10.59	6.78	9.61	10.34
June	13.20	11.00	7.19	10.18	10.83
July	13.08	10.97	7.31	10.12	10.95
August	13.15	11.00	7.22	10.06	10.91
Sept	13.28	11.03	7.17	9.99	10.86
October	12.80	10.77	6.91	9.57	10.40
November	12.94	10.49	6.73	9.50	10.28
December	12.45	10.28	6.54	9.35	10.17
Year 2018					
January	12.25	10.49	6.95	9.40	10.47
February	12.66	10.64	6.81	9.80	10.48
March	12.99	10.49	6.66	9.40	10.39
April	12.88	10.44	6.58	9.45	10.23
May	13.15	10.49	6.82	9.46	10.41
June	13.05	10.82	7.18	10.15	10.79
July	13.13	10.97	7.34	10.14	11.03
August	13.30	11.01	7.24	9.68	11.05
Year to Date					
2016	12.54	10.42	6.74	9.65	10.28
2017	12.90	10.66	6.89	9.73	10.51
2018	12.93	10.69	6.96	9.68	10.64
Rolling 12 Months Ending in August					
2017	12.79	10.60	6.86	9.68	10.43
2018	12.91	10.68	6.92	9.66	10.57

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	5,060	4,351	5,193	4,905	1,563	1,501	60	48	11,877	10,805
Connecticut	1,402	1,169	1,244	1,164	300	313	30	17	2,975	2,663
Maine	407	375	377	352	246	223	0	0	1,030	950
Massachusetts	2,225	1,921	2,575	2,423	632	600	29	28	5,461	4,971
New Hampshire	454	403	433	401	192	177	0	0	1,079	981
Rhode Island	378	312	372	338	70	66	2	2	822	718
Vermont	193	172	191	227	124	123	0	0	509	522
Middle Atlantic	14,638	12,857	15,237	14,414	6,741	6,574	340	315	36,957	34,160
New Jersey	3,819	3,070	3,888	3,532	650	647	26	27	8,382	7,276
New York	5,631	5,038	7,380	7,050	1,589	1,625	268	225	14,868	13,937
Pennsylvania	5,188	4,749	3,970	3,833	4,502	4,302	47	62	13,706	12,946
East North Central	19,499	16,767	17,850	16,527	17,175	17,138	54	56	54,578	50,488
Illinois	5,215	4,218	4,843	4,574	3,869	3,734	49	51	13,976	12,576
Indiana	3,287	3,020	2,378	2,212	3,899	3,888	2	2	9,566	9,121
Michigan	3,594	3,037	3,808	3,414	2,748	2,772	1	1	10,150	9,224
Ohio	5,242	4,708	4,539	4,198	4,395	4,508	2	3	14,179	13,417
Wisconsin	2,162	1,784	2,282	2,129	2,264	2,236	0	0	6,707	6,150
West North Central	10,241	9,048	9,862	9,266	8,230	8,354	4	4	28,337	26,671
Iowa	1,390	1,200	1,167	1,066	2,102	1,974	0	0	4,659	4,239
Kansas	1,499	1,377	1,612	1,517	1,037	1,091	0	0	4,148	3,984
Minnesota	2,079	1,768	2,160	2,049	1,871	1,989	2	2	6,112	5,808
Missouri	3,597	3,138	3,040	2,844	1,167	1,201	2	2	7,806	7,185
Nebraska	917	875	889	853	1,076	1,082	0	0	2,882	2,810
North Dakota	352	324	534	516	723	749	0	0	1,609	1,588
South Dakota	406	367	459	421	254	268	0	0	1,120	1,056
South Atlantic	37,107	36,455	30,380	29,822	12,725	12,645	118	112	80,330	79,034
Delaware	515	474	423	383	216	205	0	0	1,154	1,062
District of Columbia	266	243	783	751	16	13	29	27	1,094	1,034
Florida	12,894	13,277	9,063	9,185	1,499	1,484	8	8	23,464	23,954
Georgia	6,099	6,015	4,617	4,534	2,886	2,923	14	15	13,616	13,487
Maryland	2,743	2,408	2,890	2,682	343	341	45	43	6,020	5,474
North Carolina	5,961	5,774	4,826	4,735	2,476	2,520	2	0	13,265	13,030
South Carolina	3,241	3,172	2,209	2,215	2,560	2,458	0	0	8,010	7,846
Virginia	4,465	4,209	4,841	4,651	1,521	1,532	20	18	10,846	10,410
West Virginia	924	882	728	687	1,210	1,170	0	0	2,861	2,738
East South Central	12,330	11,837	9,248	8,892	9,919	9,179	0	0	31,497	29,908
Alabama	3,361	3,253	2,274	2,278	3,000	3,020	0	0	8,635	8,550
Kentucky	2,650	2,436	1,911	1,849	2,526	2,532	0	0	7,087	6,817
Mississippi	2,038	1,960	1,408	1,430	1,496	1,403	0	0	4,942	4,792
Tennessee	4,281	4,188	3,655	3,336	2,897	2,224	0	0	10,833	9,748
West South Central	25,801	24,779	20,137	19,147	15,633	17,133	19	18	61,590	61,077
Arkansas	1,939	1,890	1,221	1,189	1,648	1,594	0	0	4,808	4,673
Louisiana	3,449	3,269	2,433	2,343	2,988	3,223	1	1	8,871	8,836
Oklahoma	2,551	2,435	2,035	1,963	1,667	1,593	0	0	6,253	5,991
Texas	17,862	17,184	14,449	13,653	9,329	10,723	18	17	41,657	41,577
Mountain	11,641	11,031	9,854	9,544	7,883	7,711	14	11	29,392	28,297
Arizona	4,581	4,288	3,209	3,106	1,250	1,257	1	1	9,041	8,652
Colorado	2,003	1,866	1,948	1,932	1,507	1,443	8	6	5,466	5,248
Idaho	708	729	585	588	1,062	1,086	0	0	2,355	2,403
Montana	410	425	432	427	438	425	0	0	1,281	1,276
Nevada	1,887	1,707	1,318	1,178	1,135	1,141	1	1	4,340	4,027
New Mexico	754	693	887	839	735	720	0	0	2,376	2,252
Utah	1,097	1,134	1,148	1,151	869	756	4	4	3,118	3,045
Wyoming	202	190	327	323	886	882	0	0	1,414	1,395
Pacific Contiguous	15,925	14,495	16,078	15,505	8,454	8,450	77	76	40,535	38,527
California	11,880	10,300	12,013	11,388	5,063	4,988	74	74	29,031	26,750
Oregon	1,518	1,595	1,502	1,527	1,193	1,271	2	2	4,215	4,395
Washington	2,527	2,599	2,563	2,591	2,198	2,191	1	1	7,289	7,381
Pacific Noncontiguous	394	388	493	505	438	450	0	0	1,325	1,344
Alaska	139	143	220	220	112	122	0	0	471	485
Hawaii	255	245	274	286	326	328	0	0	855	858
U.S. Total	152,636	142,007	134,333	128,527	88,761	89,134	686	640	376,416	360,309

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2017 are final. Values for 2018 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	32,683	31,213	35,287	35,368	10,691	11,205	387	371	79,049	78,157
Connecticut	8,997	8,454	8,388	8,268	2,053	2,160	135	118	19,573	19,000
Maine	3,130	3,134	2,665	2,663	1,816	1,727	0	0	7,611	7,524
Massachusetts	13,845	13,198	17,393	17,431	4,086	4,589	234	234	35,559	35,452
New Hampshire	3,141	3,020	2,978	2,939	1,310	1,297	0	0	7,429	7,255
Rhode Island	2,141	2,047	2,509	2,426	506	494	18	19	5,173	4,984
Vermont	1,429	1,361	1,355	1,642	920	939	0	0	3,704	3,941
Middle Atlantic	93,731	87,878	106,253	104,354	48,555	48,645	2,666	2,565	251,205	243,441
New Jersey	20,679	19,222	26,159	25,547	4,694	4,966	210	206	51,743	49,940
New York	34,970	33,337	51,011	50,160	11,355	11,677	1,995	1,836	99,331	97,010
Pennsylvania	38,082	35,319	29,082	28,646	32,506	32,002	460	524	100,131	96,491
East North Central	133,210	121,219	125,793	121,883	125,309	128,734	411	380	384,723	372,216
Illinois	32,968	29,639	34,454	33,314	28,713	28,656	366	335	96,501	91,945
Indiana	23,399	21,304	16,520	15,924	27,851	29,553	14	13	67,784	66,795
Michigan	24,218	22,355	26,497	25,792	20,087	20,345	5	4	70,806	68,497
Ohio	37,243	33,681	32,025	31,010	32,161	33,985	26	28	101,455	98,704
Wisconsin	15,382	14,240	16,298	15,843	16,497	16,193	0	0	48,177	46,276
West North Central	75,343	68,522	70,710	68,231	59,095	62,140	33	31	205,181	198,924
Iowa	10,203	9,429	8,387	8,065	15,498	15,241	0	0	34,087	32,734
Kansas	9,953	8,923	10,798	10,541	7,321	7,767	0	0	28,072	27,231
Minnesota	15,439	14,571	15,802	15,596	13,955	14,796	17	16	45,213	44,979
Missouri	25,705	22,565	21,437	20,347	7,784	8,850	16	15	54,942	51,777
Nebraska	7,243	6,656	6,526	6,211	7,144	7,701	0	0	20,914	20,568
North Dakota	3,405	3,209	4,376	4,304	5,534	5,819	0	0	13,315	13,332
South Dakota	3,395	3,170	3,384	3,168	1,859	1,965	0	0	8,637	8,302
South Atlantic	252,212	236,581	211,706	208,207	93,527	93,884	877	870	558,323	539,542
Delaware	3,510	3,200	2,938	2,783	1,450	1,515	0	0	7,898	7,497
District of Columbia	1,757	1,660	5,539	5,389	123	117	218	221	7,636	7,388
Florida	82,354	81,568	63,291	63,726	11,033	11,177	55	61	156,733	156,533
Georgia	40,584	37,185	31,983	31,177	21,317	21,578	114	113	93,998	90,053
Maryland	19,403	17,853	19,964	19,471	2,504	2,554	348	352	42,219	40,230
North Carolina	41,990	38,112	33,190	32,179	18,008	18,364	7	2	93,195	88,658
South Carolina	21,888	19,860	14,873	14,749	18,322	18,201	0	0	55,083	52,811
Virginia	32,766	30,060	34,664	33,676	11,350	11,520	135	120	78,916	75,376
West Virginia	7,960	7,083	5,265	5,055	9,420	8,858	0	0	22,644	20,997
East South Central	85,534	75,954	63,158	60,543	65,112	68,796	0	0	213,803	205,293
Alabama	22,589	20,427	15,524	15,353	22,699	22,339	0	0	60,812	58,120
Kentucky	19,172	16,981	13,273	12,983	17,603	19,064	0	0	50,048	49,029
Mississippi	13,273	11,696	9,433	9,496	11,276	10,779	0	0	33,981	31,970
Tennessee	30,500	26,850	24,928	22,711	13,534	16,614	0	0	68,961	66,175
West South Central	159,493	144,060	135,074	129,441	119,002	127,902	132	128	413,702	401,530
Arkansas	13,193	11,552	8,206	7,919	11,860	11,407	0	0	33,259	30,878
Louisiana	21,902	19,640	16,707	16,179	22,901	24,603	9	9	61,518	60,430
Oklahoma	17,045	15,059	14,182	13,671	12,157	12,170	0	0	43,383	40,899
Texas	107,354	97,810	95,980	91,672	72,084	79,723	123	119	275,542	269,323
Mountain	69,254	68,564	66,614	65,536	55,467	55,480	107	94	191,442	189,674
Arizona	24,350	24,137	20,317	20,124	9,118	9,182	5	5	53,791	53,447
Colorado	13,122	12,691	13,854	13,873	10,658	10,286	62	45	37,696	36,894
Idaho	5,618	5,901	4,281	4,313	6,404	6,280	0	0	16,303	16,495
Montana	3,506	3,558	3,346	3,327	2,917	3,025	0	0	9,769	9,909
Nevada	9,544	9,328	8,245	7,565	7,961	8,491	6	6	25,756	25,390
New Mexico	4,741	4,495	6,197	5,913	5,290	5,109	0	0	16,228	15,517
Utah	6,524	6,595	7,882	7,904	6,220	6,271	34	39	20,660	20,809
Wyoming	1,850	1,860	2,492	2,517	6,899	6,836	0	0	11,241	11,212
Pacific Contiguous	98,504	99,649	108,609	109,434	56,902	58,109	559	578	264,574	267,770
California	61,540	61,189	77,682	78,461	32,515	32,317	536	557	172,273	172,524
Oregon	12,893	13,468	11,049	11,057	7,945	9,076	17	17	31,904	33,618
Washington	24,071	24,991	19,877	19,916	16,443	16,717	5	4	60,396	61,628
Pacific Noncontiguous	3,100	3,093	3,797	3,853	3,240	3,352	0	0	10,137	10,299
Alaska	1,321	1,362	1,801	1,803	885	944	0	0	4,008	4,109
Hawaii	1,779	1,732	1,995	2,050	2,355	2,408	0	0	6,129	6,190
U.S. Total	1,003,065	936,733	927,001	906,850	636,899	658,245	5,172	5,017	2,572,137	2,506,845

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values for 2017 are final. Values for 2018 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	1,022	841	832	761	199	191	4	4	2,057	1,797
Connecticut	298	240	205	186	41	41	2	2	547	470
Maine	66	60	45	43	22	21	0	0	134	123
Massachusetts	464	378	428	394	87	85	2	1	981	858
New Hampshire	88	77	66	59	25	22	0	0	178	158
Rhode Island	71	55	59	52	10	10	0	0	140	118
Vermont	35	31	29	28	13	12	0	0	76	71
Middle Atlantic	2,376	2,101	1,979	1,925	462	455	38	38	4,855	4,519
New Jersey	584	486	488	458	68	69	2	3	1,142	1,015
New York	1,072	935	1,145	1,125	96	101	32	31	2,346	2,191
Pennsylvania	720	680	346	342	298	286	3	4	1,367	1,312
East North Central	2,577	2,255	1,790	1,689	1,196	1,213	4	4	5,567	5,160
Illinois	643	541	434	417	256	245	3	3	1,336	1,207
Indiana	403	372	246	233	276	288	0	0	925	894
Michigan	557	475	418	377	195	197	0	0	1,169	1,049
Ohio	664	606	441	426	290	311	0	0	1,395	1,343
Wisconsin	310	261	251	236	180	170	0	0	742	667
West North Central	1,360	1,210	1,027	1,004	654	664	0	0	3,041	2,878
Iowa	203	173	125	122	174	160	0	0	502	455
Kansas	206	188	175	169	78	84	0	0	459	441
Minnesota	291	243	234	224	149	151	0	0	675	618
Missouri	456	415	311	318	86	100	0	0	853	833
Nebraska	111	106	84	79	85	90	0	0	280	275
North Dakota	42	39	51	51	61	58	0	0	155	148
South Dakota	51	46	46	41	21	21	0	0	118	109
South Atlantic	4,344	4,412	2,765	2,804	817	851	9	9	7,936	8,077
Delaware	63	62	40	37	17	15	0	0	120	114
District of Columbia	33	31	97	84	1	1	3	3	134	118
Florida	1,454	1,531	809	844	114	116	1	1	2,378	2,491
Georgia	763	773	450	461	179	188	1	1	1,393	1,423
Maryland	358	335	292	284	27	29	3	3	681	651
North Carolina	685	646	426	408	159	163	0	0	1,270	1,217
South Carolina	331	421	178	238	136	159	0	0	645	818
Virginia	551	513	409	384	105	102	2	1	1,066	1,000
West Virginia	105	103	65	64	78	78	0	0	249	245
East South Central	1,382	1,335	956	942	569	558	0	0	2,907	2,835
Alabama	417	413	255	264	190	194	0	0	862	871
Kentucky	278	263	178	182	132	144	0	0	588	590
Mississippi	224	213	141	142	94	87	0	0	459	441
Tennessee	464	445	381	354	153	134	0	0	997	933
West South Central	2,846	2,674	1,661	1,594	896	955	2	1	5,404	5,225
Arkansas	194	202	92	104	93	104	0	0	378	410
Louisiana	333	329	212	210	168	184	0	0	713	722
Oklahoma	275	261	172	165	88	89	0	0	535	516
Texas	2,044	1,882	1,186	1,116	547	578	1	1	3,778	3,578
Mountain	1,426	1,346	990	947	561	559	1	1	2,978	2,853
Arizona	591	543	361	336	97	92	0	0	1,049	971
Colorado	250	233	205	200	110	112	1	1	566	545
Idaho	75	77	48	48	76	80	0	0	198	206
Montana	47	48	43	43	27	25	0	0	118	116
Nevada	216	201	108	96	92	94	0	0	415	390
New Mexico	103	92	96	90	42	47	0	0	240	229
Utah	121	131	98	103	59	50	0	0	279	284
Wyoming	24	23	31	31	58	59	0	0	114	113
Pacific Contiguous	2,859	2,403	2,668	2,361	970	896	8	7	6,505	5,668
California	2,443	1,973	2,303	2,008	785	712	7	7	5,538	4,701
Oregon	168	173	142	136	71	79	0	0	382	388
Washington	248	256	222	217	115	106	0	0	585	579
Pacific Noncontiguous	114	101	124	115	106	93	0	0	344	309
Alaska	32	31	42	41	20	19	0	0	94	91
Hawaii	83	70	82	75	86	74	0	0	250	219
U.S. Total	20,306	18,679	14,792	14,143	6,430	6,435	66	64	41,594	39,322

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	6,672	6,013	5,709	5,397	1,386	1,401	34	30	13,802	12,841
Connecticut	1,898	1,703	1,390	1,319	286	282	16	13	3,590	3,316
Maine	503	502	325	321	164	160	0	0	992	983
Massachusetts	2,978	2,625	2,914	2,755	593	633	15	15	6,501	6,027
New Hampshire	612	573	468	432	170	159	0	0	1,250	1,164
Rhode Island	425	369	406	365	76	71	3	3	911	809
Vermont	256	240	205	205	97	96	0	0	558	541
Middle Atlantic	15,017	14,056	13,195	13,214	3,382	3,375	295	290	31,890	30,934
New Jersey	3,217	3,044	3,215	3,206	478	514	18	19	6,928	6,782
New York	6,475	6,004	7,385	7,420	696	688	243	233	14,799	14,345
Pennsylvania	5,326	5,008	2,595	2,588	2,208	2,173	34	38	10,163	9,807
East North Central	17,573	16,192	12,720	12,422	8,802	9,148	28	25	39,123	37,787
Illinois	4,114	3,820	3,080	3,047	1,907	1,872	24	21	9,126	8,760
Indiana	2,789	2,613	1,703	1,676	1,988	2,233	1	2	6,482	6,523
Michigan	3,799	3,465	2,974	2,850	1,471	1,472	1	0	8,245	7,788
Ohio	4,654	4,251	3,181	3,117	2,166	2,352	2	2	10,002	9,721
Wisconsin	2,217	2,043	1,782	1,732	1,269	1,219	0	0	5,268	4,994
West North Central	9,158	8,405	6,981	6,805	4,406	4,535	3	3	20,548	19,748
Iowa	1,312	1,180	839	781	1,057	968	0	0	3,209	2,930
Kansas	1,322	1,191	1,139	1,122	546	590	0	0	3,007	2,903
Minnesota	2,057	1,908	1,650	1,654	1,080	1,111	2	2	4,788	4,675
Missouri	2,944	2,696	2,051	1,987	558	661	1	1	5,555	5,345
Nebraska	779	729	585	554	549	605	0	0	1,913	1,889
North Dakota	352	332	397	399	470	446	0	0	1,219	1,177
South Dakota	392	370	319	307	145	154	0	0	856	830
South Atlantic	29,728	28,130	19,846	19,505	6,077	6,122	68	71	55,719	53,828
Delaware	440	425	281	278	111	119	0	0	833	822
District of Columbia	222	211	655	622	10	10	20	21	907	864
Florida	9,523	9,403	5,902	5,911	856	874	4	5	16,285	16,193
Georgia	4,728	4,496	3,111	3,148	1,253	1,299	6	6	9,099	8,948
Maryland	2,577	2,518	2,078	2,109	208	213	26	29	4,890	4,869
North Carolina	4,713	4,171	2,888	2,715	1,127	1,144	1	0	8,729	8,030
South Carolina	2,731	2,596	1,528	1,561	1,115	1,125	0	0	5,375	5,281
Virginia	3,887	3,487	2,906	2,677	777	745	11	10	7,581	6,919
West Virginia	907	823	496	485	619	593	0	0	2,022	1,901
East South Central	9,510	8,584	6,598	6,414	3,800	4,092	0	0	19,908	19,090
Alabama	2,779	2,572	1,753	1,778	1,379	1,378	0	0	5,911	5,728
Kentucky	1,989	1,831	1,260	1,273	969	1,095	0	0	4,219	4,199
Mississippi	1,499	1,299	993	962	686	650	0	0	3,178	2,911
Tennessee	3,243	2,882	2,592	2,400	766	969	0	0	6,601	6,252
West South Central	17,257	15,441	11,128	10,847	6,578	7,007	11	11	34,974	33,306
Arkansas	1,306	1,188	645	675	661	694	0	0	2,612	2,557
Louisiana	2,059	1,915	1,480	1,449	1,223	1,342	1	1	4,763	4,707
Oklahoma	1,747	1,597	1,127	1,113	630	663	0	0	3,504	3,373
Texas	12,144	10,741	7,876	7,610	4,065	4,307	10	10	24,095	22,668
Mountain	8,338	8,136	6,473	6,319	3,612	3,673	10	9	18,432	18,138
Arizona	3,131	2,984	2,203	2,129	611	601	1	0	5,945	5,715
Colorado	1,588	1,543	1,392	1,369	773	774	5	4	3,758	3,691
Idaho	580	592	345	346	433	430	0	0	1,358	1,367
Montana	391	388	340	336	150	159	0	0	881	883
Nevada	1,131	1,102	654	593	501	524	0	0	2,286	2,218
New Mexico	608	582	630	609	304	320	0	0	1,542	1,510
Utah	697	735	668	693	373	392	4	4	1,742	1,824
Wyoming	212	211	242	244	466	474	0	0	920	929
Pacific Contiguous	15,539	15,064	15,496	14,877	5,527	5,327	50	49	36,613	35,318
California	11,809	11,235	12,763	12,202	4,293	4,021	48	47	28,914	27,504
Oregon	1,404	1,433	1,006	980	464	541	2	2	2,877	2,955
Washington	2,325	2,397	1,727	1,696	770	766	1	0	4,822	4,858
Pacific Noncontiguous	861	795	928	885	763	699	0	0	2,552	2,380
Alaska	290	288	339	344	159	156	0	0	788	788
Hawaii	571	507	589	542	604	543	0	0	1,764	1,592
U.S. Total	129,654	120,816	99,073	96,686	44,333	45,379	501	488	273,561	263,369

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	20.19	19.32	16.01	15.52	12.73	12.76	7.10	7.71	17.32	16.63
Connecticut	21.28	20.53	16.45	16.02	13.79	13.24	7.81	10.43	18.37	17.64
Maine	16.28	15.96	12.04	12.08	8.99	9.46	--	--	12.99	12.99
Massachusetts	20.86	19.66	16.64	16.24	13.81	14.18	5.59	5.30	17.97	17.25
New Hampshire	19.28	19.17	15.21	14.67	13.00	12.17	--	--	16.53	16.07
Rhode Island	18.70	17.81	15.72	15.47	14.84	14.99	16.96	17.06	17.02	16.45
Vermont	17.93	17.74	15.01	12.17	10.54	10.17	--	--	15.03	13.54
Middle Atlantic	16.23	16.34	12.99	13.36	6.85	6.92	11.15	11.98	13.14	13.23
New Jersey	15.29	15.81	12.55	12.97	10.45	10.64	8.90	9.28	13.63	13.95
New York	19.03	18.56	15.52	15.95	6.06	6.20	12.04	13.69	15.78	15.72
Pennsylvania	13.88	14.32	8.71	8.93	6.62	6.64	7.25	6.98	9.97	10.14
East North Central	13.22	13.45	10.03	10.22	6.96	7.08	6.90	6.58	10.20	10.22
Illinois	12.32	12.83	8.96	9.12	6.62	6.57	6.70	6.33	9.56	9.60
Indiana	12.26	12.33	10.35	10.56	7.07	7.41	9.98	11.05	9.67	9.80
Michigan	15.49	15.63	10.97	11.04	7.09	7.12	10.82	11.48	11.52	11.37
Ohio	12.67	12.87	9.72	10.14	6.60	6.91	7.77	7.62	9.84	10.01
Wisconsin	14.36	14.64	11.02	11.09	7.94	7.60	14.32	14.12	11.06	10.85
West North Central	13.28	13.37	10.42	10.83	7.94	7.95	10.90	10.73	10.73	10.79
Iowa	14.57	14.43	10.72	11.44	8.30	8.10	--	--	10.78	10.73
Kansas	13.72	13.67	10.88	11.13	7.48	7.66	--	--	11.06	11.06
Minnesota	13.99	13.75	10.84	10.91	7.99	7.60	9.94	9.84	11.04	10.64
Missouri	12.68	13.22	10.24	11.19	7.34	8.32	11.94	11.66	10.93	11.59
Nebraska	12.08	12.11	9.48	9.30	7.86	8.32	--	--	9.70	9.80
North Dakota	11.93	12.07	9.63	9.85	8.48	7.70	--	--	9.62	9.29
South Dakota	12.65	12.53	9.95	9.77	8.15	8.02	--	--	10.52	10.29
South Atlantic	11.71	12.10	9.10	9.40	6.42	6.73	7.99	7.96	9.88	10.22
Delaware	12.30	13.04	9.42	9.73	7.76	7.44	--	--	10.39	10.76
District of Columbia	12.56	12.62	12.34	11.13	8.46	7.95	9.46	9.20	12.26	11.39
Florida	11.27	11.53	8.93	9.19	7.64	7.82	7.28	8.46	10.14	10.40
Georgia	12.51	12.85	9.74	10.17	6.22	6.43	6.36	6.43	10.23	10.55
Maryland	13.06	13.90	10.12	10.59	7.90	8.43	7.66	7.56	11.31	11.89
North Carolina	11.49	11.18	8.82	8.62	6.44	6.48	7.90	8.48	9.57	9.34
South Carolina	10.23	13.26	8.04	10.76	5.31	6.48	--	--	8.05	10.43
Virginia	12.34	12.18	8.44	8.25	6.90	6.66	8.03	8.11	9.83	9.60
West Virginia	11.39	11.67	8.98	9.35	6.45	6.64	--	--	8.69	8.94
East South Central	11.21	11.28	10.34	10.59	5.74	6.08	--	--	9.23	9.48
Alabama	12.41	12.71	11.23	11.57	6.32	6.41	--	--	9.98	10.18
Kentucky	10.47	10.82	9.30	9.85	5.25	5.69	--	--	8.29	8.65
Mississippi	10.98	10.86	10.05	9.94	6.30	6.17	--	--	9.30	9.21
Tennessee	10.83	10.64	10.44	10.62	5.26	6.01	--	--	9.21	9.57
West South Central	11.03	10.79	8.25	8.33	5.73	5.58	8.10	8.05	8.77	8.55
Arkansas	9.98	10.68	7.51	8.72	5.64	6.54	11.70	13.22	7.87	8.77
Louisiana	9.65	10.06	8.70	8.94	5.62	5.71	9.34	9.84	8.03	8.17
Oklahoma	10.80	10.72	8.43	8.43	5.31	5.59	--	--	8.56	8.61
Texas	11.44	10.95	8.21	8.17	5.86	5.39	8.01	7.93	9.07	8.60
Mountain	12.25	12.21	10.04	9.92	7.12	7.25	9.51	10.27	10.13	10.08
Arizona	12.91	12.65	11.24	10.83	7.74	7.31	11.30	8.19	11.60	11.22
Colorado	12.50	12.46	10.53	10.35	7.30	7.76	8.89	10.38	10.36	10.39
Idaho	10.54	10.56	8.14	8.20	7.18	7.41	--	--	8.43	8.56
Montana	11.51	11.30	10.01	10.02	6.15	5.86	--	--	9.17	9.06
Nevada	11.42	11.75	8.16	8.12	8.09	8.23	9.05	9.74	9.56	9.69
New Mexico	13.62	13.30	10.81	10.70	5.68	6.48	--	--	10.11	10.15
Utah	11.04	11.52	8.55	8.96	6.80	6.57	10.47	10.45	8.94	9.33
Wyoming	11.82	12.04	9.61	9.66	6.59	6.71	--	--	8.03	8.12
Pacific Contiguous	17.95	16.58	16.59	15.23	11.48	10.60	10.08	9.64	16.05	14.71
California	20.56	19.16	19.17	17.64	15.50	14.27	10.12	9.65	19.08	17.57
Oregon	11.09	10.87	9.49	8.90	5.92	6.19	8.99	9.38	9.05	8.83
Washington	9.80	9.87	8.67	8.38	5.23	4.82	8.67	9.15	8.02	7.85
Pacific Noncontiguous	28.99	26.05	25.21	22.84	24.09	20.64	--	--	25.96	23.03
Alaska	22.73	21.43	19.10	18.49	17.86	15.87	--	--	19.88	18.70
Hawaii	32.40	28.76	30.11	26.18	26.23	22.41	--	--	29.31	25.47
U.S. Total	13.30	13.15	11.01	11.00	7.24	7.22	9.68	10.06	11.05	10.91

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2017 are final. Values for 2018 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through August 2018 and 2017 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD	August 2018 YTD	August 2017 YTD
New England	20.41	19.26	16.18	15.26	12.97	12.50	8.87	8.21	17.46	16.43
Connecticut	21.09	20.14	16.58	15.95	13.92	13.06	11.81	10.70	18.34	17.46
Maine	16.06	16.02	12.20	12.04	9.05	9.25	--	--	13.03	13.06
Massachusetts	21.51	19.89	16.76	15.81	14.52	13.79	6.55	6.25	18.28	17.00
New Hampshire	19.49	18.98	15.72	14.69	12.96	12.25	--	--	16.83	16.04
Rhode Island	19.87	18.05	16.17	15.07	15.13	14.44	17.05	17.08	17.60	16.24
Vermont	17.90	17.64	15.15	12.49	10.55	10.26	--	--	15.07	13.74
Middle Atlantic	16.02	15.99	12.42	12.66	6.97	6.94	11.08	11.29	12.69	12.71
New Jersey	15.56	15.83	12.29	12.55	10.17	10.35	8.67	9.05	13.39	13.58
New York	18.51	18.01	14.48	14.79	6.13	5.89	12.20	12.71	14.90	14.79
Pennsylvania	13.99	14.18	8.92	9.03	6.79	6.79	7.37	7.20	10.15	10.16
East North Central	13.19	13.36	10.11	10.19	7.02	7.11	6.85	6.66	10.17	10.15
Illinois	12.48	12.89	8.94	9.15	6.64	6.53	6.63	6.33	9.46	9.53
Indiana	11.92	12.27	10.31	10.53	7.14	7.55	10.39	11.37	9.56	9.77
Michigan	15.69	15.50	11.22	11.05	7.32	7.24	10.94	12.01	11.64	11.37
Ohio	12.49	12.62	9.93	10.05	6.74	6.92	7.26	7.55	9.86	9.85
Wisconsin	14.41	14.35	10.94	10.93	7.69	7.53	13.93	14.27	10.94	10.79
West North Central	12.16	12.27	9.87	9.97	7.46	7.30	9.20	9.10	10.01	9.93
Iowa	12.86	12.52	10.01	9.69	6.82	6.35	--	--	9.41	8.95
Kansas	13.29	13.35	10.55	10.65	7.46	7.60	--	--	10.71	10.66
Minnesota	13.32	13.09	10.44	10.61	7.74	7.51	9.60	9.58	10.59	10.39
Missouri	11.45	11.95	9.57	9.76	7.17	7.47	8.77	8.61	10.11	10.32
Nebraska	10.76	10.95	8.96	8.92	7.69	7.86	--	--	9.15	9.18
North Dakota	10.33	10.34	9.08	9.27	8.50	7.66	--	--	9.16	8.83
South Dakota	11.55	11.67	9.44	9.69	7.80	7.82	--	--	9.92	10.00
South Atlantic	11.79	11.89	9.37	9.37	6.50	6.52	7.76	8.12	9.98	9.98
Delaware	12.53	13.28	9.58	9.98	7.67	7.88	--	--	10.54	10.97
District of Columbia	12.65	12.72	11.82	11.54	8.23	8.29	9.19	9.45	11.88	11.69
Florida	11.56	11.53	9.32	9.28	7.76	7.82	7.84	8.47	10.39	10.34
Georgia	11.65	12.09	9.73	10.10	5.88	6.02	5.64	5.42	9.68	9.94
Maryland	13.28	14.10	10.41	10.83	8.32	8.36	7.35	8.14	11.58	12.10
North Carolina	11.22	10.94	8.70	8.44	6.26	6.23	8.05	8.66	9.37	9.06
South Carolina	12.48	13.07	10.28	10.58	6.09	6.18	--	--	9.76	10.00
Virginia	11.86	11.60	8.38	7.95	6.84	6.47	8.25	7.97	9.61	9.18
West Virginia	11.40	11.62	9.41	9.59	6.57	6.70	--	--	8.93	9.05
East South Central	11.12	11.30	10.45	10.59	5.84	5.95	--	--	9.31	9.30
Alabama	12.30	12.59	11.29	11.58	6.07	6.17	--	--	9.72	9.86
Kentucky	10.38	10.78	9.50	9.81	5.50	5.74	--	--	8.43	8.56
Mississippi	11.29	11.11	10.53	10.14	6.08	6.03	--	--	9.35	9.11
Tennessee	10.63	10.74	10.40	10.57	5.66	5.84	--	--	9.57	9.45
West South Central	10.82	10.72	8.24	8.38	5.53	5.48	8.40	8.34	8.45	8.29
Arkansas	9.90	10.28	7.86	8.53	5.57	6.09	11.42	12.15	7.85	8.28
Louisiana	9.40	9.75	8.86	8.96	5.34	5.46	9.82	10.01	7.74	7.79
Oklahoma	10.25	10.60	7.94	8.14	5.18	5.45	--	--	8.08	8.25
Texas	11.31	10.98	8.21	8.30	5.64	5.40	8.30	8.21	8.74	8.42
Mountain	12.04	11.87	9.72	9.64	6.51	6.62	9.49	9.97	9.63	9.56
Arizona	12.86	12.36	10.84	10.58	6.70	6.54	10.20	9.60	11.05	10.69
Colorado	12.10	12.16	10.04	9.87	7.25	7.53	8.90	10.07	9.97	10.00
Idaho	10.32	10.03	8.06	8.01	6.76	6.84	--	--	8.33	8.29
Montana	11.14	10.90	10.15	10.11	5.16	5.24	--	--	9.02	8.91
Nevada	11.85	11.81	7.93	7.83	6.29	6.17	8.34	8.42	8.88	8.74
New Mexico	12.83	12.94	10.17	10.31	5.75	6.25	--	--	9.50	9.73
Utah	10.69	11.14	8.47	8.77	6.00	6.25	10.62	10.13	8.43	8.77
Wyoming	11.43	11.35	9.71	9.70	6.76	6.94	--	--	8.18	8.29
Pacific Contiguous	15.78	15.12	14.27	13.59	9.71	9.17	9.03	8.48	13.84	13.19
California	19.19	18.36	16.43	15.55	13.20	12.44	9.02	8.45	16.78	15.94
Oregon	10.89	10.64	9.11	8.86	5.85	5.96	9.18	9.31	9.02	8.79
Washington	9.66	9.59	8.69	8.51	4.68	4.58	9.28	9.14	7.98	7.88
Pacific Noncontiguous	27.79	25.71	24.43	22.98	23.54	20.86	--	--	25.17	23.11
Alaska	21.98	21.15	18.80	19.06	17.93	16.52	--	--	19.66	19.17
Hawaii	32.10	29.30	29.51	26.43	25.66	22.55	--	--	28.78	25.73
U.S. Total	12.93	12.90	10.69	10.66	6.96	6.89	9.68	9.73	10.64	10.51

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2017 are final. Values for 2018 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,837	17,582,382	774,808	726	143,395,753
2009	125,208,829	17,562,235	757,537	704	143,529,305
2010	125,717,935	17,674,338	747,747	239	144,140,259
2011	126,143,072	17,638,062	727,920	92	144,509,146
2012	126,832,343	17,729,029	732,385	83	145,293,840
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
2017	132,579,747	18,359,427	840,329	86	151,779,589
Year 2016					
January	130,327,243	18,001,806	829,287	78	149,158,414
February	130,114,828	18,022,657	825,209	81	148,962,775
March	131,333,340	18,185,531	835,990	86	150,354,947
April	130,452,160	18,064,005	823,879	82	149,340,126
May	131,002,108	18,133,949	840,080	85	149,976,222
June	131,282,771	18,174,804	853,646	86	150,311,307
July	131,086,905	18,130,289	847,849	83	150,065,126
August	131,346,501	18,227,261	859,607	83	150,433,452
Sept	131,374,997	18,207,555	846,336	83	150,428,971
October	131,318,899	18,203,386	838,393	84	150,360,762
November	131,325,418	18,183,746	824,510	84	150,333,758
December	131,859,453	18,244,491	832,403	84	150,936,431
Year 2017					
January	131,977,307	18,289,356	828,464	84	151,095,211
February	131,437,253	18,199,541	817,642	84	150,454,520
March	132,851,616	18,384,031	836,953	84	152,072,684
April	131,902,166	18,225,046	821,828	86	150,949,126
May	132,559,481	18,375,746	847,817	86	151,783,130
June	132,866,506	18,402,963	856,760	85	152,126,314
July	132,345,053	18,354,033	851,042	85	151,550,213
August	133,013,535	18,437,269	867,301	85	152,318,190
Sept	132,461,398	18,354,295	845,776	85	151,661,554
October	133,126,174	18,435,264	846,549	85	152,408,072
November	133,093,866	18,430,836	830,580	85	152,355,367
December	133,321,574	18,423,574	833,004	85	152,578,237
Year 2018					
January	133,342,216	18,484,700	794,303	84	152,621,303
February	132,948,450	18,361,911	771,363	84	152,081,808
March	133,911,047	18,498,366	782,306	84	153,191,803
April	133,452,691	18,455,876	782,458	84	152,691,109
May	134,218,437	18,535,301	805,945	84	153,559,767
June	134,051,924	18,569,074	816,626	84	153,437,708
July	133,973,114	18,549,619	819,029	87	153,341,849
August	134,540,638	18,617,835	825,157	95	153,983,725
Rolling 12 Months Ending in August					
2017	132,069,307	18,292,264	839,121	85	151,200,776
2018	133,536,794	18,476,388	812,758	86	152,826,025

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	6,384,759	6,310,945	898,315	886,844	20,192	23,070	6	6	7,303,272	7,220,865
Connecticut	1,505,107	1,495,654	154,013	153,109	4,258	4,389	3	3	1,663,381	1,653,155
Maine	710,887	713,670	101,189	100,474	3,078	3,140	0	0	815,154	817,284
Massachusetts	2,781,212	2,722,543	416,742	409,028	7,765	10,356	2	2	3,205,721	3,141,929
New Hampshire	626,298	619,404	108,531	107,527	3,180	3,212	0	0	738,009	730,143
Rhode Island	444,229	444,825	60,532	60,133	1,775	1,786	1	1	506,537	506,745
Vermont	317,026	314,849	57,308	56,573	136	187	0	0	374,470	371,609
Middle Atlantic	16,181,649	16,042,350	2,340,239	2,309,275	29,813	41,484	26	20	18,551,727	18,393,129
New Jersey	3,579,770	3,537,148	515,972	517,998	11,881	11,831	6	6	4,107,629	4,066,983
New York	7,198,083	7,145,902	1,109,833	1,092,549	6,684	6,984	8	8	8,314,608	8,245,443
Pennsylvania	5,403,796	5,359,300	714,434	698,728	11,248	22,669	12	6	6,129,490	6,080,703
East North Central	20,281,922	20,047,759	2,508,371	2,487,953	47,049	54,446	9	9	22,837,351	22,590,167
Illinois	5,312,844	5,262,212	617,007	611,757	4,046	5,699	3	3	5,933,900	5,879,671
Indiana	2,857,294	2,830,817	353,801	352,795	15,249	17,933	1	1	3,226,345	3,201,546
Michigan	4,402,533	4,342,361	548,851	543,406	NM	6,313	2	2	4,957,023	4,892,082
Ohio	4,983,908	4,932,167	630,982	628,605	17,061	18,713	2	2	5,631,953	5,579,487
Wisconsin	2,725,343	2,680,202	357,730	351,390	NM	5,788	1	1	3,088,130	3,037,381
West North Central	9,570,791	9,449,038	1,468,970	1,447,203	115,365	126,945	3	3	11,155,129	11,023,189
Iowa	1,400,130	1,378,047	244,897	238,676	NM	7,877	0	0	1,651,990	1,624,600
Kansas	1,277,097	1,260,677	236,598	232,212	25,943	24,857	0	0	1,539,638	1,517,746
Minnesota	2,420,990	2,410,495	291,826	293,732	NM	9,181	1	1	2,721,171	2,713,409
Missouri	2,821,367	2,775,377	384,648	383,243	6,746	8,159	2	2	3,212,763	3,166,781
Nebraska	863,934	845,547	162,526	152,818	56,164	64,107	0	0	1,082,624	1,062,472
North Dakota	381,161	380,727	74,081	74,742	8,107	8,792	0	0	463,349	464,261
South Dakota	406,112	398,168	74,394	71,780	NM	3,972	0	0	483,594	473,920
South Atlantic	28,023,153	27,645,191	3,812,178	3,749,653	79,216	84,536	13	13	31,914,560	31,479,393
Delaware	430,773	427,028	54,929	54,427	594	852	0	0	486,296	482,307
District of Columbia	275,431	268,746	26,409	26,155	1	1	3	3	301,844	294,905
Florida	9,390,688	9,303,297	1,237,385	1,218,560	20,552	21,536	2	2	10,648,627	10,543,395
Georgia	4,400,425	4,309,822	587,080	574,159	19,930	23,651	1	1	5,007,436	4,907,633
Maryland	2,337,128	2,315,947	253,792	253,253	8,745	8,757	5	5	2,599,670	2,577,962
North Carolina	4,580,154	4,499,910	706,714	682,754	9,925	10,110	1	1	5,296,794	5,192,775
South Carolina	2,306,003	2,260,541	369,221	374,315	4,300	4,431	0	0	2,679,524	2,639,287
Virginia	3,445,269	3,402,289	431,717	421,852	3,783	3,701	1	1	3,880,770	3,827,843
West Virginia	857,282	857,611	144,931	144,178	11,386	11,497	0	0	1,013,599	1,013,286
East South Central	8,502,524	8,347,687	1,407,711	1,399,165	23,204	28,007	0	0	9,933,439	9,774,859
Alabama	2,263,387	2,220,714	371,665	370,767	8,297	8,110	0	0	2,643,349	2,599,591
Kentucky	2,003,383	1,973,984	303,898	305,337	6,085	7,020	0	0	2,313,366	2,286,341
Mississippi	1,321,232	1,290,018	240,656	234,837	7,941	11,703	0	0	1,569,829	1,536,558
Tennessee	2,914,522	2,862,971	491,492	488,224	881	1,174	0	0	3,406,895	3,352,369
West South Central	16,318,936	16,093,882	2,316,220	2,287,702	207,490	197,668	6	6	18,842,652	18,579,258
Arkansas	1,399,553	1,382,927	193,125	192,188	41,710	40,709	2	2	1,634,390	1,615,826
Louisiana	2,104,983	2,073,319	295,196	292,060	18,751	19,835	1	1	2,418,931	2,385,215
Oklahoma	1,789,962	1,754,989	286,536	281,587	18,018	18,913	0	0	2,094,516	2,055,489
Texas	11,024,438	10,882,647	1,541,363	1,521,867	129,011	118,211	3	3	12,694,815	12,522,728
Mountain	9,823,645	9,773,900	1,396,174	1,402,729	91,244	99,186	5	5	11,311,068	11,275,820
Arizona	2,791,417	2,761,507	322,096	321,942	6,343	8,220	2	2	3,119,858	3,091,671
Colorado	2,329,925	2,290,812	364,668	371,630	14,677	16,665	1	1	2,709,271	2,679,108
Idaho	744,614	729,269	110,703	109,231	28,776	28,386	0	0	884,093	866,886
Montana	513,576	504,316	110,610	107,350	9,869	12,153	0	0	634,055	623,819
Nevada	1,187,865	1,267,031	164,333	163,614	NM	3,617	1	1	1,355,702	1,434,263
New Mexico	904,295	885,076	139,612	143,502	8,554	9,441	0	0	1,052,461	1,038,019
Utah	1,077,134	1,065,364	125,030	127,304	9,655	9,681	1	1	1,211,820	1,202,350
Wyoming	274,819	270,525	59,122	58,156	9,867	11,023	0	0	343,808	339,704
Pacific Contiguous	18,727,157	18,582,878	2,355,790	2,351,399	209,352	209,765	27	23	21,292,326	21,144,065
California	13,878,672	13,794,119	1,715,479	1,733,550	153,510	155,144	19	15	15,747,680	15,682,828
Oregon	1,764,309	1,729,656	242,147	234,255	26,450	25,946	2	2	2,032,908	1,989,859
Washington	3,084,176	3,059,103	398,164	383,594	29,392	28,675	6	6	3,511,738	3,471,378
Pacific Noncontiguous	726,102	719,905	113,867	115,346	NM	NM	0	0	842,201	837,445
Alaska	290,259	287,018	54,086	53,787	NM	NM	0	0	345,776	342,212
Hawaii	435,843	432,887	59,781	61,559	801	787	0	0	496,425	495,233
U.S. Total	134,540,638	133,013,535	18,617,835	18,437,269	825,157	867,301	95	85	153,983,725	152,318,190

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2017 are final. Values for 2018 are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 6.1. Electric Generating Summer Capacity Changes (MW), July 2018 to August 2018

		As of End of July 2018	Activity During August 2018 as Reported to EIA		As of End of August 2018	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... *Onshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*88,883.4*	*91.2*	*0.0*	*88,974.6*	*91.2*	*1,406.4*	*5,023.3*	*736.0*	*8,995.2*	*0.0*	*0.0*	*736.0*	*8,995.2*	*89,710.6*	*97,969.8*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	88,912.7	91.2	0.0	89,003.9	91.2	1,406.4	5,023.3	736.0	8,995.2	0.0	0.0	736.0	8,995.2	89,739.9	97,999.1
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*27,505.1*	*64.6*	*0.0*	*27,569.7*	*64.6*	*2,360.7*	*5,022.0*	*381.0*	*4,501.1*	*0.0*	*1.2*	*381.0*	*4,499.9*	*27,950.7*	*32,069.6*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.4*	*0.0*	*0.0*	*405.4*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	29,263.0	64.6	0.0	29,327.6	64.6	2,360.7	5,022.0	381.0	4,501.1	0.0	1.2	381.0	4,499.9	29,708.6	33,827.5
..... Conventional Hydroelectric	Utility Scale Facilities	79,748.4	0.0	0.0	79,748.4	0.0	-46.1	-13.2	0.0	267.7	0.0	109.9	0.0	157.8	79,748.4	79,906.2
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,789.6*	*0.0*	*0.0*	*8,789.6*	*0.0*	*-41.3*	*-66.8*	*0.0*	*167.9*	*0.0*	*79.8*	*0.0*	*88.1*	*8,789.6*	*8,877.7*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,068.3*	*0.0*	*0.0*	*2,068.3*	*0.0*	*-31.1*	*-38.8*	*0.0*	*6.2*	*0.0*	*6.6*	*0.0*	*-0.4*	*2,068.3*	*2,067.9*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,235.0*	*0.0*	*0.0*	*2,235.0*	*0.0*	*-10.0*	*-10.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,235.0*	*2,235.0*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*773.5*	*0.0*	*0.0*	*773.5*	*0.0*	*-11.6*	*-22.6*	*0.0*	*34.0*	*0.0*	*0.4*	*0.0*	*33.6*	*773.5*	*807.1*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,866.4	0.0	0.0	13,866.4	0.0	-94.0	-138.2	0.0	208.1	0.0	86.8	0.0	121.3	13,866.4	13,987.7
..... Geothermal	Utility Scale Facilities	2,499.3	0.0	0.0	2,499.3	0.0	16.0	48.2	0.0	76.9	0.0	0.0	0.0	76.9	2,499.3	2,576.2
... Renewable Sources Subtotal	***Utility Scale Facilities***	***214,289.8***	***155.8***	***0.0***	***214,445.6***	***155.8***	***3,643.0***	***9,942.1***	***1,117.0***	***14,049.0***	***0.0***	***197.9***	***1,117.0***	***13,851.1***	***215,562.6***	***228,296.7***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*256,365.7*	*989.3*	*2.4*	*257,352.6*	*986.9*	*10,680.6*	*11,869.7*	*1,805.0*	*12,077.3*	*0.0*	*50.0*	*1,805.0*	*12,027.3*	*259,157.6*	*269,379.9*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*127,103.8*	*48.0*	*0.0*	*127,151.8*	*48.0*	*891.0*	*1,264.0*	*117.0*	*2,073.1*	*117.0*	*215.1*	*0.0*	*1,858.0*	*127,151.8*	*129,009.8*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*76,147.4*	*0.0*	*0.0*	*76,147.4*	*0.0*	*-2,400.3*	*-2,552.3*	*0.0*	*1.0*	*0.0*	*923.8*	*0.0*	*-922.8*	*76,147.4*	*75,224.6*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,615.0*	*9.3*	*0.0*	*4,624.3*	*9.3*	*325.3*	*327.3*	*0.0*	*308.3*	*0.0*	*2.1*	*0.0*	*306.2*	*4,624.3*	*4,930.5*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*122.1*	*1.4*	*1.2*	*122.3*	*0.2*	*0.2*	*0.2*	*0.0*	*44.4*	*0.0*	*0.0*	*0.0*	*44.4*	*122.3*	*166.7*
..... Natural Gas Subtotal	Utility Scale Facilities	464,464.0	1,048.0	3.6	465,508.4	1,044.4	9,496.8	10,908.9	1,922.0	14,504.1	117.0	1,191.0	1,805.0	13,313.1	467,313.4	478,821.5
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*245,099.6*	*0.0*	*1.0*	*245,098.6*	*-1.0*	*-10,692.7*	*-13,352.7*	*0.0*	*17.0*	*294.4*	*4,505.4*	*-294.4*	*-4,488.4*	*244,804.2*	*240,610.2*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*756.0*	*0.0*	*0.0*	*756.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*756.0*	*756.0*
..... Coal Subtotal	Utility Scale Facilities	245,855.6	0.0	1.0	245,854.6	-1.0	-10,692.7	-13,352.7	0.0	17.0	294.4	4,505.4	-294.4	-4,488.4	245,560.2	241,366.2
..... Petroleum Coke	Utility Scale Facilities	1,527.9	0.0	0.0	1,527.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,527.9	1,527.9
..... Petroleum Liquids	Utility Scale Facilities	31,604.0	0.0	0.0	31,604.0	0.0	-174.8	-237.0	2.0	21.5	0.0	9.0	2.0	12.5	31,606.0	31,616.5
..... Other Gases	Utility Scale Facilities	2,375.8	0.0	0.0	2,375.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,375.8	2,375.8
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***745,827.3***	***1,048.0***	***4.6***	***746,870.7***	***1,043.4***	***-1,370.7***	***-2,680.8***	***1,924.0***	***14,542.6***	***411.4***	***5,705.4***	***1,512.6***	***8,837.2***	***748,383.3***	***755,707.9***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,855.4	0.0	0.0	22,855.4	0.0	45.0	45.0	0.0	57.0	0.0	0.0	0.0	57.0	22,855.4	22,912.4
..... Flywheels	Utility Scale Facilities	47.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	760.8	2.5	0.0	763.3	2.5	98.4	85.1	5.6	136.8	0.0	0.0	5.6	136.8	768.9	900.1
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,663.2***	***2.5***	***0.0***	***23,665.7***	***2.5***	***143.4***	***130.1***	***5.6***	***193.8***	***0.0***	***0.0***	***5.6***	***193.8***	***23,671.3***	***23,859.5***
... Nuclear	***Utility Scale Facilities***	***99,628.9***	***0.0***	***0.0***	***99,628.9***	***0.0***	***0.0***	***0.0***	***155.0***	***465.0***	***607.7***	***1,284.9***	***-452.7***	***-819.9***	***99,176.2***	***98,809.0***
... All Other	***Utility Scale Facilities***	***2,184.9***	***0.0***	***0.0***	***2,184.9***	***0.0***	***10.5***	***10.5***	***0.9***	***48.8***	***0.0***	***0.0***	***0.9***	***48.8***	***2,185.8***	***2,233.7***
TOTAL	**UTILITY SCALE FACILITIES**	**1,085,594.1**	**1,206.3**	**4.6**	**1,086,795.8**	**1,201.7**	**2,426.2**	**7,401.9**	**3,202.5**	**29,299.2**	**1,019.1**	**7,188.2**	**2,183.4**	**22,111.0**	**1,088,979.2**	**1,108,906.8**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*18,110.9*			*18,412.4*	*301.5*	*2,264.6*	*3,393.6*								
..... Estimated Total Solar Photovoltaic	All Facilities	45,616.0			45,982.1	366.1	4,625.3	8,415.6								
... Estimated Total Solar	***All Facilities***	***47,373.9***			***47,740.0***	***366.1***	***4,625.3***	***8,415.6***								

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

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

Table 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - August 2018

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
2016	20,192.9	12,765.1	32,958.0
2017	25,209.0	16,147.8	41,356.8
Year 2016			
January	12,470.5	9,865.6	22,336.1
February	12,615.2	10,123.1	22,738.3
March	12,822.0	10,440.2	23,262.2
April	13,298.0	10,687.8	23,985.8
May	13,419.8	10,927.9	24,347.7
June	13,635.3	11,185.2	24,820.5
July	14,360.4	11,385.3	25,745.7
August	15,297.1	11,670.6	26,967.7
Sept	16,064.3	11,913.3	27,977.6
October	16,477.2	12,156.4	28,633.6
November	17,192.0	12,446.4	29,638.4
December	20,192.9	12,765.1	32,958.0
Year 2017			
January	20,603.7	12,970.1	33,573.8
February	20,792.6	13,272.0	34,064.6
March	21,177.9	13,558.9	34,736.8
April	21,700.6	13,815.1	35,515.7
May	22,006.1	14,115.3	36,121.4
June	22,242.6	14,401.8	36,644.4
July	22,356.4	14,670.8	37,027.2
August	22,547.7	15,018.7	37,566.4
Sept	22,762.8	15,216.3	37,979.1
October	23,095.3	15,456.6	38,551.9
November	23,660.0	15,719.9	39,379.9
December	25,209.0	16,147.8	41,356.8
Year 2018			
January	25,958.5	16,489.5	42,448.0
February	26,048.3	16,742.2	42,790.5
March	26,546.5	17,029.2	43,575.7
April	26,822.9	17,293.9	44,116.8
May	27,243.0	17,581.1	44,824.1
June	27,393.6	17,862.9	45,256.5
July	27,505.1	18,110.9	45,616.0
August	27,569.7	18,412.4	45,982.1

Values for 2017 are final. Values for 2018 are preliminary.
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - August 2018

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
2016	7,527.0	4,022.8	1,215.3	12,765.1
2017	9,626.8	5,155.8	1,365.1	16,147.8
Year 2016				
January	5,428.5	3,419.8	1,017.3	9,865.6
February	5,627.1	3,458.3	1,037.7	10,123.1
March	5,852.7	3,521.8	1,065.8	10,440.2
April	6,051.1	3,552.6	1,084.1	10,687.8
May	6,238.7	3,589.1	1,100.0	10,927.9
June	6,432.3	3,640.4	1,112.5	11,185.2
July	6,592.9	3,660.7	1,131.7	11,385.3
August	6,785.8	3,734.2	1,150.5	11,670.6
Sept	6,957.7	3,794.2	1,161.5	11,913.3
October	7,147.1	3,837.6	1,171.8	12,156.4
November	7,332.8	3,930.7	1,182.9	12,446.4
December	7,527.0	4,022.8	1,215.3	12,765.1
Year 2017				
January	7,754.9	4,071.5	1,143.7	12,970.1
February	7,946.3	4,110.9	1,214.8	13,272.0
March	8,115.3	4,203.6	1,240.0	13,558.9
April	8,269.3	4,293.6	1,252.2	13,815.1
May	8,453.2	4,381.8	1,280.4	14,115.3
June	8,618.2	4,481.8	1,301.9	14,401.8
July	8,778.3	4,565.3	1,327.2	14,670.8
August	8,961.3	4,711.5	1,346.0	15,018.7
Sept	9,113.0	4,738.4	1,364.9	15,216.3
October	9,265.2	4,826.7	1,364.7	15,456.6
November	9,429.8	4,924.9	1,365.1	15,719.9
December	9,626.8	5,155.8	1,365.1	16,147.8
Year 2018				
January	9,820.2	5,308.4	1,360.8	16,489.5
February	9,985.3	5,389.1	1,367.9	16,742.2
March	10,154.5	5,489.6	1,385.1	17,029.2
April	10,314.3	5,572.4	1,407.3	17,293.9
May	10,491.8	5,661.6	1,427.7	17,581.1
June	10,657.4	5,760.7	1,444.8	17,862.9
July	10,826.0	5,832.1	1,452.8	18,110.9
August	11,008.8	5,934.5	1,469.0	18,412.4

Values for 2017 are final. Values for 2018 are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, Form EIA-861, and from estimation methods described in the technical notes.
In March 2018, the net decrease in sector capacity is due to the correction of incorrectly reported virtual net metering and net metering capacity

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	5,713.5	5,540.2	22,850.3	21,205.7	1,797.4	1,797.4	25.7	24.2	4,014.1	4,014.1	320.9	320.9	34,721.9	32,902.5
Connecticut	389.2	358.8	7,007.0	6,100.4	29.4	29.4	1.6	1.6	2,087.8	2,087.8	298.9	298.9	9,813.9	8,876.9
Maine	2,345.6	2,321.3	2,540.5	2,536.5	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,924.3	4,896.0
Massachusetts	1,306.6	1,235.0	9,110.9	8,376.9	1,768.0	1,768.0	5.9	4.4	677.2	677.2	0.0	0.0	12,868.6	12,061.5
New Hampshire	928.9	928.9	2,262.9	2,262.9	0.0	0.0	0.0	0.0	1,249.1	1,249.1	0.0	0.0	4,440.9	4,440.9
Rhode Island	113.3	104.8	1,831.1	1,831.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,944.4	1,935.9
Vermont	629.9	591.4	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	729.8	691.3
Middle Atlantic	11,016.7	10,816.1	70,843.2	67,963.5	3,409.8	3,409.8	73.9	72.4	19,295.6	19,295.6	425.4	420.9	105,064.6	101,978.3
New Jersey	946.0	903.7	12,415.0	12,366.4	420.0	420.0	2.5	1.0	4,107.9	4,107.9	15.7	11.2	17,907.1	17,810.2
New York	7,219.1	7,035.8	26,758.4	26,023.8	1,406.8	1,406.8	21.0	21.0	5,390.7	5,390.7	221.7	221.7	41,017.7	40,099.8
Pennsylvania	2,851.6	2,876.6	31,669.8	29,573.3	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	188.0	188.0	46,139.8	44,068.3
East North Central	11,814.2	10,941.2	112,038.9	114,376.2	2,179.0	2,134.0	167.7	187.4	19,024.4	19,024.4	188.1	188.1	145,412.3	146,851.3
Illinois	4,549.9	4,172.4	28,983.1	28,933.1	0.0	0.0	112.7	112.4	11,577.4	11,577.4	78.0	78.0	45,301.1	44,873.3
Indiana	2,442.8	2,308.9	23,892.4	23,159.4	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	26,446.2	25,579.3
Michigan	2,659.0	2,481.7	20,790.5	20,941.1	2,179.0	2,134.0	0.0	0.0	4,119.8	4,119.8	0.0	0.0	29,748.3	29,676.6
Ohio	931.3	850.7	25,036.5	26,804.7	0.0	0.0	33.0	53.0	2,134.0	2,134.0	0.0	0.0	28,134.8	29,842.4
Wisconsin	1,231.2	1,127.5	13,336.4	14,537.9	0.0	0.0	0.0	0.0	1,193.2	1,193.2	21.1	21.1	15,781.9	16,879.7
West North Central	26,891.5	25,601.7	60,754.7	60,828.2	657.0	657.0	3.2	2.0	5,443.4	5,443.4	24.5	24.5	93,774.3	92,556.8
Iowa	7,315.7	6,972.6	9,801.9	9,969.6	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,719.0	17,543.6
Kansas	5,136.2	5,135.2	9,781.8	9,776.5	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,143.8	16,137.5
Minnesota	5,069.6	4,581.9	10,301.0	10,077.8	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	17,047.0	16,336.1
Missouri	1,578.9	1,255.0	18,386.9	18,474.5	657.0	657.0	2.2	1.0	1,190.0	1,190.0	0.0	0.0	21,815.0	21,577.5
Nebraska	1,761.5	1,627.4	6,157.7	6,202.4	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	8,689.2	8,599.8
North Dakota	3,592.8	3,592.8	4,633.6	4,635.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,231.7	8,233.7
South Dakota	2,436.8	2,436.8	1,691.8	1,691.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,128.6	4,128.6
South Atlantic	19,049.4	17,283.3	161,168.6	159,768.2	7,905.2	7,905.2	94.5	80.5	24,602.6	24,602.6	452.7	446.7	213,273.0	210,086.5
Delaware	48.3	46.1	3,331.4	3,331.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,379.7	3,377.5
District of Columbia	23.0	23.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	32.0
Florida	2,402.5	1,747.1	51,922.4	53,186.0	0.0	0.0	14.0	0.0	3,572.0	3,572.0	348.7	348.7	58,259.6	58,853.8
Georgia	3,963.5	3,923.1	26,973.7	26,974.3	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,905.4	36,865.6
Maryland	1,160.3	1,088.7	11,837.3	10,278.7	0.0	0.0	13.0	13.0	1,707.8	1,707.8	6.0	0.0	14,724.4	13,088.2
North Carolina	6,170.9	5,586.8	22,130.3	21,644.3	86.0	86.0	1.0	1.0	5,117.6	5,117.6	54.0	54.0	33,559.8	32,489.7
South Carolina	2,142.7	1,966.1	12,137.2	11,435.2	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	23,572.1	22,693.5
Virginia	2,111.1	1,875.3	19,046.0	18,746.0	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,966.1	27,430.3
West Virginia	1,027.1	1,027.1	13,781.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	14,873.9	15,255.9
East South Central	8,742.4	8,544.7	64,648.1	65,678.8	1,616.3	1,616.3	1.0	0.0	10,984.1	10,984.1	1.4	1.4	85,993.3	86,825.3
Alabama	4,135.5	4,069.6	20,309.2	20,507.4	0.0	0.0	1.0	0.0	5,060.4	5,060.4	0.0	0.0	29,506.1	29,637.4
Kentucky	1,245.4	1,227.6	18,874.3	18,874.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,119.7	20,101.9
Mississippi	435.3	333.3	13,274.3	13,989.9	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,112.0	15,725.6
Tennessee	2,926.2	2,914.2	12,190.3	12,307.2	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,255.5	21,360.4
West South Central	36,492.9	33,226.3	139,983.8	142,754.7	286.0	286.0	98.3	76.5	8,910.7	8,910.7	512.7	512.7	186,284.4	185,766.9
Arkansas	1,694.3	1,608.3	11,193.0	11,183.0	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,733.1	14,637.1
Louisiana	683.2	683.2	20,600.7	20,600.7	0.0	0.0	0.5	0.5	2,132.9	2,132.9	288.7	288.7	23,706.0	23,706.0
Oklahoma	8,463.1	7,701.5	18,577.0	17,718.9	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	27,298.1	25,678.4
Texas	25,652.3	23,233.3	89,613.1	93,252.1	0.0	0.0	97.8	76.0	4,960.0	4,960.0	224.0	224.0	120,547.2	121,745.4
Mountain	26,250.8	25,531.2	62,321.3	63,352.3	778.8	778.8	35.6	23.6	3,937.0	3,937.0	126.3	126.3	93,449.8	93,749.2
Arizona	5,090.8	4,991.6	19,407.3	19,407.3	216.3	216.3	32.0	20.0	3,937.0	3,937.0	0.0	0.0	28,683.4	28,572.2
Colorado	4,286.1	4,172.5	11,119.2	11,345.2	562.5	562.5	1.0	1.0	0.0	0.0	9.3	9.3	15,978.1	16,090.5
Idaho	4,011.9	4,014.6	1,127.6	1,127.6	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,154.3	5,157.0
Montana	3,472.8	3,440.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,257.2	6,224.7
Nevada	3,595.6	3,456.5	7,821.6	7,791.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,423.7	11,254.6
New Mexico	2,398.7	2,060.8	5,966.8	6,813.8	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,368.1	8,877.2
Utah	1,600.5	1,600.5	7,360.2	7,348.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,000.9	8,988.9
Wyoming	1,794.4	1,794.4	6,778.2	6,778.2	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,584.1	8,584.1
Pacific Contiguous	67,292.6	65,890.5	48,041.9	49,404.3	4,225.9	4,225.9	223.2	169.9	3,417.0	3,417.0	106.3	106.3	123,306.9	123,213.9
California	30,341.4	29,160.2	38,964.0	40,326.4	3,911.9	3,911.9	210.8	157.5	2,240.0	2,240.0	106.3	106.3	75,774.4	75,902.3
Oregon	12,249.7	12,067.5	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,572.8	16,390.6
Washington	24,701.5	24,662.8	4,759.8	4,759.8	314.0	314.0	7.4	7.4	1,177.0	1,177.0	0.0	0.0	30,959.7	30,921.0
Pacific Noncontiguous	1,181.6	1,128.3	4,219.9	4,219.6	0.0	0.0	87.2	88.7	0.0	0.0	26.6	26.6	5,515.3	5,463.2
Alaska	538.2	538.2	2,161.6	2,161.3	0.0	0.0	46.2	46.2	0.0	0.0	0.0	0.0	2,746.0	2,745.7
Hawaii	643.4	590.1	2,058.3	2,058.3	0.0	0.0	41.0	42.5	0.0	0.0	26.6	26.6	2,769.3	2,717.5
U.S. Total	214,445.6	204,503.5	746,870.7	749,551.5	22,855.4	22,810.4	810.3	725.2	99,628.9	99,628.9	2,184.9	2,174.4	1,086,795.8	1,079,393.9

NM = Not meaningful due to large relative standard error.
Values for 2017 are final. Values for 2018 are preliminary.

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

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, August 2018 and 2017 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	1,402.1	1,347.8	820.5	700.7	0.0	0.0	1,960.7	1,960.7	1,530.2	1,531.0	0.0	0.0	5,713.5	5,540.2	2,039.4	1,636.4	2,859.9	2,337.1	2,859.9	2,337.1
Connecticut	1.0	1.0	62.5	32.1	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	389.2	358.8	374.5	306.5	437.0	338.6	437.0	338.6
Maine	921.6	898.8	5.6	4.1	0.0	0.0	732.4	732.4	686.0	686.0	0.0	0.0	2,345.6	2,321.3	39.5	28.8	45.1	32.9	45.1	32.9
Massachusetts	94.4	92.9	659.5	588.6	0.0	0.0	267.4	267.4	285.3	286.1	0.0	0.0	1,306.6	1,235.0	1,386.2	1,113.2	2,045.7	1,701.8	2,045.7	1,701.8
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	241.0	0.0	0.0	928.9	928.9	78.4	65.1	78.4	65.1	78.4	65.1
Rhode Island	51.8	51.8	18.7	10.2	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	113.3	104.8	63.4	38.3	82.1	48.5	82.1	48.5
Vermont	150.2	120.2	74.2	65.7	0.0	0.0	331.2	331.2	74.3	74.3	0.0	0.0	629.9	591.4	97.4	84.5	171.6	150.2	171.6	150.2
Middle Atlantic	3,284.0	3,205.6	986.7	839.5	0.0	0.0	5,466.2	5,466.2	1,279.8	1,304.8	0.0	0.0	11,016.7	10,816.1	2,853.5	2,358.2	3,840.2	3,197.7	3,840.2	3,197.7
New Jersey	7.6	7.6	698.8	656.5	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	946.0	903.7	1,404.1	1,193.1	2,102.9	1,849.6	2,102.9	1,849.6
New York	1,904.6	1,826.2	236.1	131.2	0.0	0.0	4,554.3	4,554.3	524.1	524.1	0.0	0.0	7,219.1	7,035.8	1,142.8	906.0	1,378.9	1,037.2	1,378.9	1,037.2
Pennsylvania	1,371.8	1,371.8	51.8	51.8	0.0	0.0	899.6	899.6	528.4	553.4	0.0	0.0	2,851.6	2,876.6	306.7	259.2	358.5	311.0	358.5	311.0
East North Central	9,261.3	8,430.5	427.0	362.7	0.0	0.0	857.3	857.3	1,268.6	1,290.7	0.0	0.0	11,814.2	10,941.2	350.1	246.0	777.1	608.7	777.1	608.7
Illinois	4,380.9	3,983.8	34.9	32.8	0.0	0.0	34.1	34.1	100.0	121.7	0.0	0.0	4,549.9	4,172.4	64.4	42.6	99.3	75.4	99.3	75.4
Indiana	2,109.4	1,989.7	196.7	182.5	0.0	0.0	60.4	60.4	76.3	76.3	0.0	0.0	2,442.8	2,308.9	66.6	24.1	263.3	206.6	263.3	206.6
Michigan	1,735.8	1,591.8	97.2	62.5	0.0	0.0	266.9	266.9	559.1	560.5	0.0	0.0	2,659.0	2,481.7	57.7	47.1	154.9	109.6	154.9	109.6
Ohio	605.9	533.9	76.1	67.5	0.0	0.0	101.9	101.9	147.4	147.4	0.0	0.0	931.3	850.7	109.4	92.7	185.5	160.2	185.5	160.2
Wisconsin	429.3	331.3	22.1	17.4	0.0	0.0	394.0	394.0	385.8	384.8	0.0	0.0	1,231.2	1,127.5	52.1	39.5	74.2	56.9	74.2	56.9
West North Central	22,283.5	21,317.2	758.9	435.4	0.0	0.0	3,291.7	3,291.7	557.4	557.4	0.0	0.0	26,891.5	25,601.7	306.5	243.3	1,065.4	678.7	1,065.4	678.7
Iowa	7,140.2	6,802.2	7.7	2.6	0.0	0.0	146.4	146.4	21.4	21.4	0.0	0.0	7,315.7	6,972.6	84.0	60.6	91.7	63.2	91.7	63.2
Kansas	5,116.0	5,116.0	4.2	3.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,136.2	5,135.2	17.4	10.3	21.6	13.5	21.6	13.5
Minnesota	3,707.9	3,507.9	670.8	383.1	0.0	0.0	205.9	205.9	485.0	485.0	0.0	0.0	5,069.6	4,581.9	57.2	41.4	728.0	424.5	728.0	424.5
Missouri	954.3	654.3	59.6	35.7	0.0	0.0	548.5	548.5	16.5	16.5	0.0	0.0	1,578.9	1,255.0	140.3	126.8	199.9	162.5	199.9	162.5
Nebraska	1,454.3	1,326.0	15.6	9.8	0.0	0.0	275.9	275.9	15.7	15.7	0.0	0.0	1,761.5	1,627.4	6.8	3.3	22.4	13.1	22.4	13.1
North Dakota	3,073.0	3,073.0	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	3,592.8	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,436.8	0.6	0.5	1.6	1.5	1.6	1.5
South Atlantic	1,086.3	1,086.3	6,430.8	4,546.7	0.0	0.0	7,229.2	7,268.2	4,303.1	4,382.1	0.0	0.0	19,049.4	17,283.3	1,600.9	1,261.6	8,031.7	5,808.3	8,031.7	5,808.3
Delaware	2.0	2.0	34.1	31.9	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	48.3	46.1	76.0	64.9	110.1	96.8	110.1	96.8
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	23.0	0.0	0.0	23.0	23.0	46.8	33.6	46.8	33.6	46.8	33.6
Florida	0.0	0.0	1,117.2	384.8	0.0	0.0	54.5	54.5	1,230.8	1,307.8	0.0	0.0	2,402.5	1,747.1	254.5	173.5	1,371.7	558.3	1,371.7	558.3
Georgia	0.0	0.0	1,010.9	970.5	0.0	0.0	2,047.2	2,047.2	905.4	905.4	0.0	0.0	3,963.5	3,923.1	162.0	NM	1,172.9	NM	1,172.9	NM
Maryland	190.0	190.0	240.3	166.7	0.0	0.0	590.0	590.0	140.0	142.0	0.0	0.0	1,160.3	1,088.7	689.8	592.9	930.1	759.6	930.1	759.6
North Carolina	208.0	208.0	3,392.6	2,808.5	0.0	0.0	2,002.0	2,002.0	568.3	568.3	0.0	0.0	6,170.9	5,586.8	127.2	110.9	3,519.8	2,919.4	3,519.8	2,919.4
South Carolina	0.0	0.0	283.0	67.4	0.0	0.0	1,328.7	1,367.7	531.0	531.0	0.0	0.0	2,142.7	1,966.1	179.4	102.7	462.4	170.1	462.4	170.1
Virginia	0.0	0.0	352.7	116.9	0.0	0.0	866.0	866.0	892.4	892.4	0.0	0.0	2,111.1	1,875.3	59.0	43.3	411.7	160.2	411.7	160.2
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	340.8	340.8	0.0	0.0	0.0	0.0	1,027.1	1,027.1	6.3	5.3	6.3	5.3	6.3	5.3
East South Central	29.1	29.1	455.6	232.9	0.0	0.0	7,028.7	7,053.7	1,229.0	1,229.0	0.0	0.0	8,742.4	8,544.7	91.4	80.6	547.0	313.5	547.0	313.5
Alabama	0.0	0.0	179.4	92.9	0.0	0.0	3,270.2	3,290.8	685.9	685.9	0.0	0.0	4,135.5	4,069.6	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.3	11.1	0.0	0.0	1,146.9	1,144.3	72.2	72.2	0.0	0.0	1,245.4	1,227.6	21.0	15.8	47.3	26.9	47.3	26.9
Mississippi	0.0	0.0	160.6	58.6	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	435.3	333.3	7.1	6.0	167.7	64.6	167.7	64.6
Tennessee	29.1	29.1	89.3	70.3	0.0	0.0	2,611.6	2,618.6	196.2	196.2	0.0	0.0	2,926.2	2,914.2	56.3	53.9	145.6	124.2	145.6	124.2
West South Central	30,437.3	27,894.2	1,758.4	1,023.0	0.0	0.0	2,987.5	2,987.5	1,309.7	1,321.6	0.0	0.0	36,492.9	33,226.3	585.2	414.9	2,343.6	1,437.9	2,343.6	1,437.9
Arkansas	0.0	0.0	100.0	14.0	0.0	0.0	1,263.9	1,263.9	330.4	330.4	0.0	0.0	1,694.3	1,608.3	13.8	6.2	113.8	20.2	113.8	20.2
Louisiana	0.0	0.0	1.1	1.1	0.0	0.0	192.0	192.0	490.1	490.1	0.0	0.0	683.2	683.2	135.5	119.2	136.6	120.3	136.6	120.3
Oklahoma	7,494.8	6,743.2	30.5	20.5	0.0	0.0	861.6	861.6	76.2	76.2	0.0	0.0	8,463.1	7,701.5	6.7	3.5	37.2	24.0	37.2	24.0
Texas	22,942.5	21,151.0	1,626.8	987.4	0.0	0.0	670.0	670.0	413.0	424.9	0.0	0.0	25,652.3	23,233.3	429.1	286.1	2,055.9	1,273.5	2,055.9	1,273.5
Mountain	8,834.5	8,439.5	5,609.4	5,317.6	473.9	473.9	10,575.9	10,580.1	174.3	174.3	582.8	545.8	26,250.8	25,531.2	2,227.1	1,850.3	7,836.5	7,167.9	8,310.4	7,641.8
Arizona	267.3	267.3	1,776.5	1,677.3	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,090.8	4,991.6	1,213.9	1,005.0	2,990.4	2,682.3	3,285.8	2,977.7
Colorado	3,103.2	3,031.2	466.8	425.2	0.0	0.0	687.4	687.4	28.7	28.7	0.0	0.0	4,286.1	4,172.5	345.5	322.6	812.3	747.8	812.3	747.8
Idaho	970.5	970.5	240.0	240.0	0.0	0.0	2,707.5	2,710.2	83.9	83.9	10.0	10.0	4,011.9	4,014.6	21.7	10.5	261.7	250.5	261.7	250.5
Montana	703.5	678.5	17.0	8.0	0.0	0.0	2,749.3	2,750.8	3.0	3.0	0.0	0.0	3,472.8	3,440.3	12.9	10.1	29.9	18.1	29.9	18.1
Nevada	150.0	150.0	1,707.7	1,605.6	178.5	178.5	1,051.4	1,051.4	9.8	9.8	498.2	461.2	3,595.6	3,456.5	269.7	220.0	1,977.4	1,825.6	2,155.9	2,004.1
New Mexico	1,764.5	1,466.5	544.3	504.4	0.0	0.0	82.9	82.9	5.4	5.4	1.6	1.6	2,398.7	2,060.8	136.5	109.2	680.8	613.6	680.8	613.6
Utah	388.2	388.2	857.1	857.1	0.0	0.0	269.4	269.4	12.8	12.8	73.0	73.0	1,600.5	1,600.5	223.1	170.0	1,080.2	1,027.1	1,080.2	1,027.1
Wyoming	1,487.3	1,487.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,794.4	3.8	NM	3.8	NM	3.8	NM
Pacific Contiguous	12,119.6	11,964.2	10,221.2	8,990.9	1,284.0	1,284.0	39,854.7	39,799.7	1,939.6	1,989.4	1,873.5	1,862.3	67,292.6	65,890.5	7,757.5	6,364.3	17,978.7	15,355.2	19,262.7	16,639.2
California	5,836.3	5,680.9	9,938.6	8,890.5	1,284.0	1,284.0	10,198.0	10,198.0	1,230.5	1,264.0	1,854.0	1,842.8	30,341.4	29,160.2	7,491.5	6,142.4	17,430.1	15,032.9	18,714.1	16,316.9
Oregon	3,210.2	3,210.2	282.1	99.9	0.0	0.0	8,423.2	8,423.2	314.7	314.7	19.5	19.5	12,249.7	12,067.5	148.9	131.1	431.0	231.0	431.0	231.0
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,233.5	21,178.5	394.4	410.7	0.0	0.0	24,701.5	24,662.8	117.1	90.8	117.6	91.3	117.6	91.3
Pacific Noncontiguous	266.2	266.2	101.2	98.3	0.0	0.0	496.5	496.5	274.7	224.3	43.0	43.0	1,181.6	1,128.3	600.8	563.2	702.0	661.5	702.0	661.5
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.6	470.6	7.0	7.0	0.0	0.0	538.2	538.2	3.0	1.8	3.0	1.8	3.0	1.8
Hawaii	205.6	205.6	101.2	98.3	0.0	0.0	25.9	25.9	267.7	217.3	43.0	43.0	643.4	590.1	597.9	561.4	699.1	659.7	699.1	659.7
U.S. Total	89,003.9	83,980.6	27,569.7	22,547.7	1,757.9	1,757.9	79,748.4	79,761.6	13,866.4	14,004.6	2,499.3	2,451.1	214,445.6	204,503.5	18,412.4	15,018.7	45,982.1	37,566.4	47,740.0	39,324.3

NM = Not meaningful due to large relative standard error.
Values for 2017 are final. Values for 2018 are preliminary.

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, August 2018 and 2017 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017	August 2018	August 2017
New England	13,404.6	11,859.4	1,212.8	1,118.8	1,607.1	1,605.7	917.3	917.3	0.0	0.0	5,708.5	5,704.5	0.0	0.0	22,850.3	21,205.7
Connecticut	3,147.1	2,331.9	567.6	477.6	873.8	872.4	383.4	383.4	0.0	0.0	2,035.1	2,035.1	0.0	0.0	7,007.0	6,100.4
Maine	1,250.0	1,250.0	301.1	297.1	108.5	108.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,540.5	2,536.5
Massachusetts	5,989.3	5,259.3	333.5	333.5	199.7	199.7	0.0	0.0	0.0	0.0	2,588.4	2,584.4	0.0	0.0	9,110.9	8,376.9
New Hampshire	1,231.0	1,231.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	94.0	0.0	0.0	2,262.9	2,262.9
Rhode Island	1,787.2	1,787.2	6.8	6.8	24.9	24.9	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	1,831.1	1,831.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	97.9	0.0	0.0	97.9	97.9
Middle Atlantic	29,213.9	26,028.9	7,801.3	7,682.3	14,674.0	15,118.6	13,529.2	13,530.2	78.6	78.6	5,417.0	5,395.7	129.2	129.2	70,843.2	67,963.5
New Jersey	8,530.4	8,158.0	2,964.0	2,845.0	42.6	493.2	609.0	609.0	11.6	11.6	234.0	226.2	23.4	23.4	12,415.0	12,366.4
New York	8,698.4	7,977.3	3,157.0	3,157.0	9,688.5	9,688.5	1,640.2	1,640.2	0.0	0.0	3,574.3	3,560.8	0.0	0.0	26,758.4	26,023.8
Pennsylvania	11,985.1	9,893.6	1,680.3	1,680.3	4,942.9	4,936.9	11,280.0	11,281.0	67.0	67.0	1,608.7	1,608.7	105.8	105.8	31,669.8	29,573.3
East North Central	20,747.0	18,179.4	26,588.1	26,591.8	4,209.5	4,214.9	56,679.3	61,406.3	247.6	247.6	2,474.5	2,643.3	1,092.9	1,092.9	112,038.9	114,376.2
Illinois	3,580.2	3,580.2	10,436.3	10,385.3	289.9	290.9	13,966.0	13,966.0	0.0	0.0	674.2	674.2	36.5	36.5	28,983.1	28,933.1
Indiana	3,807.0	2,406.0	3,355.8	3,405.8	729.1	729.1	15,281.4	15,761.4	0.0	0.0	99.8	237.8	619.3	619.3	23,892.4	23,159.4
Michigan	4,421.0	4,421.0	3,977.6	3,970.8	2,389.6	2,394.0	9,216.7	9,367.7	47.2	47.2	488.4	490.4	250.0	250.0	20,790.5	20,941.1
Ohio	6,188.0	5,021.4	5,446.1	5,446.1	189.2	189.2	12,274.4	15,182.4	142.0	142.0	609.7	636.5	187.1	187.1	25,036.5	26,804.7
Wisconsin	2,750.8	2,750.8	3,372.3	3,383.8	611.7	611.7	5,940.8	7,128.8	58.4	58.4	602.4	604.4	0.0	0.0	13,336.4	14,537.9
West North Central	6,633.1	6,633.1	11,730.9	11,502.1	4,360.5	4,526.3	34,116.0	34,199.0	32.0	32.0	3,873.8	3,927.3	8.4	8.4	60,754.7	60,828.2
Iowa	1,772.6	1,772.6	1,258.2	1,261.4	420.5	532.8	5,497.9	5,497.9	32.0	32.0	820.7	872.9	0.0	0.0	9,801.9	9,969.6
Kansas	266.0	266.0	2,148.3	2,148.3	2,096.7	2,096.7	4,714.2	4,714.2	0.0	0.0	556.6	551.3	0.0	0.0	9,781.8	9,776.5
Minnesota	2,172.0	2,172.0	2,671.4	2,439.4	361.1	369.9	4,309.4	4,309.4	0.0	0.0	787.1	787.1	0.0	0.0	10,301.0	10,077.8
Missouri	1,789.9	1,789.9	3,399.6	3,399.6	836.1	836.1	11,260.8	11,343.8	0.0	0.0	1,100.5	1,105.1	0.0	0.0	18,386.9	18,474.5
Nebraska	342.6	342.6	1,150.8	1,150.8	525.8	570.5	3,817.3	3,817.3	0.0	0.0	321.2	321.2	0.0	0.0	6,157.7	6,202.4
North Dakota	0.0	0.0	408.0	408.0	111.6	111.6	4,042.4	4,042.4	0.0	0.0	63.2	65.2	8.4	8.4	4,633.6	4,635.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	224.5	224.5	0.0	0.0	1,691.8	1,691.8
South Atlantic	56,375.9	53,188.3	32,061.6	31,796.6	7,307.0	7,308.6	54,752.3	56,789.3	142.8	142.8	10,394.0	10,407.6	135.0	135.0	161,168.6	159,768.2
Delaware	1,512.0	1,512.0	317.2	317.2	843.1	843.1	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,331.4	3,331.4
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,953.7	27,953.7	7,890.1	7,900.1	2,479.6	2,481.2	8,570.0	9,822.0	59.0	59.0	4,970.0	4,970.0	0.0	0.0	51,922.4	53,186.0
Georgia	7,963.9	7,963.9	7,787.2	7,787.2	832.9	832.9	9,360.5	9,360.5	83.8	83.8	945.4	946.0	0.0	0.0	26,973.7	26,974.3
Maryland	2,924.6	976.0	1,965.6	1,957.6	1,414.2	1,414.2	4,327.0	4,712.0	0.0	0.0	1,205.9	1,218.9	0.0	0.0	11,837.3	10,278.7
North Carolina	5,210.8	4,724.8	6,045.1	6,045.1	0.0	0.0	10,536.8	10,536.8	0.0	0.0	337.6	337.6	0.0	0.0	22,130.3	21,644.3
South Carolina	3,152.0	2,399.0	2,763.8	2,814.8	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	463.4	0.0	0.0	12,137.2	11,435.2
Virginia	7,658.9	7,658.9	4,194.3	3,894.3	1,068.2	1,068.2	3,778.0	3,778.0	0.0	0.0	2,346.6	2,346.6	0.0	0.0	19,046.0	18,746.0
West Virginia	0.0	0.0	1,089.3	1,071.3	123.0	123.0	12,558.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	13,781.3	14,163.3
East South Central	21,537.7	20,632.1	12,640.1	12,646.9	5,354.0	6,053.8	24,963.5	26,184.2	0.0	0.0	133.0	142.0	19.8	19.8	64,648.1	65,678.8
Alabama	9,471.9	9,618.4	2,532.2	2,532.2	2,791.3	2,791.3	5,451.4	5,503.1	0.0	0.0	42.6	42.6	19.8	19.8	20,309.2	20,507.4
Kentucky	1,763.0	1,763.0	4,976.6	4,976.6	260.0	260.0	11,862.8	11,862.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	18,874.3
Mississippi	7,847.7	7,847.7	1,350.8	1,357.6	2,236.5	2,936.3	1,804.0	1,804.0	0.0	0.0	35.3	44.3	0.0	0.0	13,274.3	13,989.9
Tennessee	2,455.1	1,403.0	3,780.5	3,780.5	66.2	66.2	5,845.3	7,014.3	0.0	0.0	43.2	43.2	0.0	0.0	12,190.3	12,307.2
West South Central	60,415.1	59,942.6	14,301.4	13,492.7	31,886.1	31,670.9	31,593.2	35,856.2	957.9	957.9	174.8	179.1	655.3	655.3	139,983.8	142,754.7
Arkansas	4,566.0	4,566.0	702.8	702.8	802.0	802.0	5,110.0	5,100.0	0.0	0.0	12.2	12.2	0.0	0.0	11,193.0	11,183.0
Louisiana	7,537.0	7,537.0	2,357.9	2,357.9	6,528.4	6,528.4	2,832.6	2,832.6	894.1	894.1	43.3	43.3	407.4	407.4	20,600.7	20,600.7
Oklahoma	7,247.6	6,780.1	1,684.9	1,285.9	5,235.5	5,243.9	4,334.6	4,334.6	0.0	0.0	74.4	74.4	0.0	0.0	18,577.0	17,718.9
Texas	41,064.5	41,059.5	9,555.8	9,146.1	19,320.2	19,096.6	19,316.0	23,589.0	63.8	63.8	44.9	49.2	247.9	247.9	89,613.1	93,252.1
Mountain	22,513.8	22,483.8	8,638.9	8,648.9	3,663.9	3,693.9	26,989.0	28,010.0	52.0	52.0	356.3	356.3	107.4	107.4	62,321.3	63,352.3
Arizona	9,891.6	9,891.6	2,367.6	2,367.6	1,303.6	1,303.6	5,754.0	5,754.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,407.3
Colorado	3,240.5	3,240.5	2,572.3	2,572.3	639.0	681.0	4,499.0	4,683.0	0.0	0.0	168.4	168.4	0.0	0.0	11,119.2	11,345.2
Idaho	547.7	547.7	552.0	552.0	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.6	1,127.6
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,445.0	5,415.0	1,185.6	1,185.6	444.6	444.6	740.4	740.4	0.0	0.0	6.0	6.0	0.0	0.0	7,821.6	7,791.6
New Mexico	1,465.0	1,465.0	966.0	976.0	849.4	849.4	2,634.0	3,471.0	0.0	0.0	52.4	52.4	0.0	0.0	5,966.8	6,813.8
Utah	1,830.0	1,830.0	520.2	520.2	328.2	316.2	4,654.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,360.2	7,348.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,406.0	6,406.0	0.0	0.0	5.8	5.8	105.9	105.9	6,778.2	6,778.2
Pacific Contiguous	26,032.3	26,056.1	11,550.4	11,781.4	7,766.9	8,861.1	1,982.0	1,982.0	17.0	17.0	471.9	485.3	221.4	221.4	48,041.9	49,404.3
California	20,003.8	20,027.6	10,697.2	10,928.2	7,510.9	8,605.1	57.0	57.0	17.0	17.0	456.7	470.1	221.4	221.4	38,964.0	40,326.4
Oregon	3,374.9	3,374.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	4,318.1
Washington	2,653.6	2,653.6	719.4	719.4	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,759.8	4,759.8
Pacific Noncontiguous	479.2	479.2	626.3	626.3	175.0	175.0	332.8	332.8	0.0	0.0	2,600.2	2,599.9	6.4	6.4	4,219.9	4,219.6
Alaska	479.2	479.2	626.3	626.3	175.0	175.0	152.8	152.8	0.0	0.0	728.3	728.0	0.0	0.0	2,161.6	2,161.3
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,871.9	1,871.9	6.4	6.4	2,058.3	2,058.3
U.S. Total	257,352.6	245,482.9	127,151.8	125,887.8	81,004.0	83,228.8	245,854.6	259,207.3	1,527.9	1,527.9	31,604.0	31,841.0	2,375.8	2,375.8	746,870.7	749,551.5

NM = Not meaningful due to large relative standard error.
Values for 2017 are final. Values for 2018 are preliminary.

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	1	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC
2018	1	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT
2018	1	61060	Cypress Creek Renewables	IPP	LeSun CSG, LLC	MN	61544	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	61060	Cypress Creek Renewables	IPP	WrightSun CSG, LLC	MN	61547	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40802	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40803	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40804	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40805	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40806	1.0	Solar Photovoltaic	SUN	PV
2018	1	61111	DG New Jersey Solar, LLC	IPP	DG New Jersey Solar RLS Logistics	NJ	61507	RLSNJ	4.0	Solar Photovoltaic	SUN	PV
2018	1	56215	E ON Climate Renewables N America LLC	IPP	Inadale Wind Farm LLC	TX	56984	INABT	9.9	Batteries	MWH	BA
2018	1	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC
2018	1	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar CSG	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar CSG	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar CSG	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar CSG	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar CSG	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV
2018	1	59218	East. Michigan Univ. Heating Plant	Commercial	East. Michigan Univ. Heating Plant	MI	59452	COGN2	6.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	58135	Ecos Energy LLC	IPP	Jefferson Solar	CT	62024	JEFRS	1.0	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	7140	Georgia Power Co	Electric Utility	Comer Solar	GA	61554	1	2.0	Solar Photovoltaic	SUN	PV
2018	1	59462	Heelstone Energy Holdings, LLC	IPP	Chiloquin Solar, LLC	OR	61631	CHILO	9.9	Solar Photovoltaic	SUN	PV
2018	1	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT
2018	1	61227	Nautilus Solar Solutions	IPP	Kilroy Solar	CA	61628	KILRO	1.1	Solar Photovoltaic	SUN	PV
2018	1	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT
2018	1	49748	ORCAL Geothermal, Inc	IPP	Heber Geothermal	CA	54689	4	16.0	Geothermal	GEO	BT
2018	1	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT
2018	1	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV
2018	1	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	1	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	2	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	3	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	4	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	5	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	61361	Walton Solar	IPP	Gratis Road Solar Facility	GA	61740	GR01	3.0	Solar Photovoltaic	SUN	PV
2018	2	61105	ABEC #2 LLC	IPP	ABEC #2 dba West-Star Dairy	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61106	ABEC #3 LLC	IPP	ABEC #3 dba Lakeview Dairy	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61107	ABEC #4 LLC	IPP	ABEC #4 dba CE&S Dairy	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	2	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV2W	3.3	Batteries	MWH	BA
2018	2	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2018	2	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	196.7	Onshore Wind Turbine	WND	WT
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV
2018	2	56769	Consolidated Edison Development Inc.	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV
2018	2	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.4	Solar Photovoltaic	SUN	PV
2018	2	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV
2018	2	61171	Lake Waconia Solar IV LLC	IPP	Lake Waconia IV Community Solar Garden	MN	61573	40926	1.0	Solar Photovoltaic	SUN	PV
2018	2	61170	Lake Waconia Solar LLC	IPP	Lake Waconia Community Solar Garden	MN	61572	38610	1.0	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	61156	NMRD Data Center, LLC	IPP	Facebook 2 Solar Energy Center	NM	61557	FB2	10.0	Solar Photovoltaic	SUN	PV
2018	2	14063	Oklahoma Gas & Electric Co	Electric Utility	Covington Solar Farm	OK	61759	CVS1	10.0	Solar Photovoltaic	SUN	PV
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY
2018	2	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV
2018	2	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV
2018	2	61168	Veseli Solar I LLC	IPP	Veseli Community Solar Garden	MN	61570	40921	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV
2018	3	60571	AEP Onsite Partners	IPP	Sherburne Community Solar	MN	61672	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	3	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables Community Solar	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV
2018	3	61060	Cypress Creek Renewables	IPP	Gaston Solar I - SC	SC	61530	GEN1	10.2	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	3	61228	Dundas Solar Holdings LLC	IPP	Dundas Solar Holdings LLC CSG	MN	61626	DU	5.0	Solar Photovoltaic	SUN	PV
2018	3	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV
2018	3	60904	ETCAP NES CS MN 06 LLC	IPP	Armstrong Solar	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV
2018	3	58135	Ecos Energy LLC	IPP	Adams Solar	CT	62026	ADAMS	1.0	Solar Photovoltaic	SUN	PV
2018	3	58135	Ecos Energy LLC	IPP	Franklin Solar	CT	62021	FRANK	1.0	Solar Photovoltaic	SUN	PV
2018	3	58135	Ecos Energy LLC	IPP	Hamilton Solar	CT	62025	HAMLT	1.0	Solar Photovoltaic	SUN	PV
2018	3	58135	Ecos Energy LLC	IPP	Wilson Solar	CT	62023	WILSN	1.0	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993	BA	10.0	Batteries	MWH	BA
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Citrus Solar Energy Center	FL	60061	BA	4.0	Batteries	MWH	BA
2018	3	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV
2018	3	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV
2018	3	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS
2018	3	58764	Origis Energy USA, Inc	IPP	MA Solar Storage 1	MA	61730	SCSS1	1.1	Solar Photovoltaic	SUN	PV
2018	3	58764	Origis Energy USA, Inc	IPP	MA Solar Storage 1	MA	61730	SCSS2	1.1	Solar Photovoltaic	SUN	PV
2018	3	58764	Origis Energy USA, Inc	IPP	MA Solar Storage 1	MA	61730	SCSS3	1.1	Solar Photovoltaic	SUN	PV
2018	3	61323	PowerFin ASL 1, LLC	IPP	PowerFin Kingsbery	TX	61700	PFPKB	2.6	Solar Photovoltaic	SUN	PV
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV
2018	3	61491	ReNew Petra Integrators, LLC	IPP	Bartow Solar Energy LLC	FL	61879	PV	7.3	Solar Photovoltaic	SUN	PV

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60520	SoCore Energy LLC	IPP	Carrizozo Solar	NM	61662	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV
2018	3	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Community Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV
2018	3	61397	Town of Otis	Commercial	Town of Otis Wind Energy Project	MA	61775	OT196	1.5	Onshore Wind Turbine	WND	WT
2018	3	57081	WGL Energy Systems, Inc	IPP	Bowie State Solar	MD	61915	SO285	1.3	Solar Photovoltaic	SUN	PV
2018	3	57081	WGL Energy Systems, Inc	IPP	Danville	VA	61849	SO291	6.0	Solar Photovoltaic	SUN	PV
2018	3	61229	Waterville Solar Holdings LLC	IPP	Waterville Solar Holdings LLC	MN	61627	WA	5.0	Solar Photovoltaic	SUN	PV
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	321.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV
2018	4	61124	Great Valley Solar Portfolio Holdings, LLC	IPP	Great Valley Solar Portfolio Holdings, LLC	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61417	Lavio Solar, LLC	IPP	Lavio Solar	CA	61792	5002	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV
2018	4	61156	NMRD Data Center, LLC	IPP	Facebook 3 Solar Energy Center	NM	61558	FB3	10.0	Solar Photovoltaic	SUN	PV
2018	4	61169	New Germany Solar I LLC	IPP	New Germany Community Solar Garden	MN	61571	39062	1.0	Solar Photovoltaic	SUN	PV
2018	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60584	Onyx Asset Services Group	IPP	Amsterdam North	NY	61904	10044	2.0	Solar Photovoltaic	SUN	PV
2018	4	60584	Onyx Asset Services Group	IPP	Amsterdam South	NY	61905	10045	2.0	Solar Photovoltaic	SUN	PV
2018	4	60584	Onyx Asset Services Group	IPP	Broadalbin	NY	61847	10046	2.0	Solar Photovoltaic	SUN	PV
2018	4	60584	Onyx Asset Services Group	IPP	Duanesburg	NY	61863	10048	2.0	Solar Photovoltaic	SUN	PV
2018	4	60584	Onyx Asset Services Group	IPP	Johnstown	NY	61888	10049	2.0	Solar Photovoltaic	SUN	PV
2018	4	58764	Origis Energy USA, Inc	IPP	MA Solar Storage 1	MA	61730	61730	1.0	Batteries	MWH	BA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	BA1	10.0	Batteries	MWH	BA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	PCEC	20.0	Solar Photovoltaic	SUN	PV
2018	4	61494	Radian Generation	IPP	Hanover Solar, LLC	NC	61877	HAN01	5.0	Solar Photovoltaic	SUN	PV
2018	4	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN3	6.0	Wood/Wood Waste Biomass	WDS	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61418	Stage Gulch Solar, LLC	IPP	Stage Gulch Solar	CA	61791	5001	0.8	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV
2018	4	61172	Zumbro Solar LLC	IPP	Zumbro Community Solar Garden	MN	61574	38674	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV2	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Quincy II Solar Garden	CO	61752	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV01	1.0	Batteries	MWH	BA
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV1W	4.5	Batteries	MWH	BA
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT10	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT9	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC
2018	5	61481	Dignity - San Martin	IPP	Dignity - San Martin	NV	61862	PV1	1.7	Solar Photovoltaic	SUN	PV
2018	5	61442	Dignity - Siena Campus	IPP	Dignity - Siena Campus	NV	61825	PV1	1.4	Solar Photovoltaic	SUN	PV
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	61303	Grimm CSG LLC	IPP	Grimm Community Solar	MN	61689	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Raritan Solar - 53 Highway	NJ	61601	RARIT	8.4	Solar Photovoltaic	SUN	PV
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA
2018	5	60584	Onyx Asset Services Group	IPP	SeaWorld Aquatica	CA	61843	10276	1.0	Solar Photovoltaic	SUN	PV
2018	5	60584	Onyx Asset Services Group	IPP	Sharon Springs	NY	61903	10116	2.0	Solar Photovoltaic	SUN	PV
2018	5	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV
2018	5	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV
2018	5	60653	Stafford St Solar 2, LLC	IPP	Stafford St 2 Community Solar	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV
2018	5	61210	Stenner Creek Solar LLC	Commercial	Stenner Creek Solar	CA	61607	CPOLY	4.5	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	5	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV
2018	6	803	Arizona Public Service Co	Electric Utility	Punkin Center Battery Storage	AZ	61913	B1	2.0	Batteries	MWH	BA
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV
2018	6	58519	Clean Energy Collective LLC	IPP	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV
2018	6	61187	DG Minnesota CSG, LLC	IPP	Big Lake Project	MN	61817	BIGLA	5.0	Solar Photovoltaic	SUN	PV
2018	6	61406	Delta Solar Power I, LLC	IPP	Delta Solar Power I	MI	61954	DSPI	7.7	Solar Photovoltaic	SUN	PV
2018	6	61435	EGP Stillwater Solar PV II, LLC	IPP	EGP Stillwater Solar PV II, LLC	NV	61809	STWII	20.0	Solar Photovoltaic	SUN	PV
2018	6	61538	Ecogy Delaware II LLC.	IPP	WHA Southbridge Solar Park	DE	61934	2	1.0	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	6	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC
2018	6	61409	Heyer CSG LLC	IPP	Heyer CSG	MN	61793	HEYER	1.0	Solar Photovoltaic	SUN	PV
2018	6	57389	IKEA Property Inc	Commercial	IKEA Oak Creek Rooftop PV System	WI	61816	PV1	1.2	Solar Photovoltaic	SUN	PV
2018	6	49893	Invenergy Services LLC	IPP	Bishop Hill III	IL	61787	BHIII	119.0	Onshore Wind Turbine	WND	WT
2018	6	61369	Kimball Wind, LLC	Electric Utility	Kimball Wind	NE	56106	KIM01	30.0	Onshore Wind Turbine	WND	WT
2018	6	58822	MC Power Companies Inc	IPP	El Dorado Springs Solar Farm	MO	61566	EDSF1	2.5	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	1	4.1	Solar Photovoltaic	SUN	PV
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	2	4.4	Solar Photovoltaic	SUN	PV
2018	6	61211	Montgomery County Solar	Commercial	Montgomery County Solar	MD	61608	1	1.9	Solar Photovoltaic	SUN	PV
2018	6	56990	NJR Clean Energy Ventures Corporation	IPP	New Road Solar, LLC	NJ	61599	NEWRD	10.0	Solar Photovoltaic	SUN	PV
2018	6	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	328.0	Natural Gas Fired Combined Cycle	NG	CT
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	196.5	Natural Gas Fired Combined Cycle	NG	CA
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA
2018	6	61298	Pine Gate Renewables	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV
2018	6	61285	RJC II CSG LLC	IPP	RJC II Community Solar Garden	MN	61670	RJCII	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	6	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	6	61443	Solar Star RPUWD, LLC	IPP	RPUWD Scheuer Well Solar PV Project	CA	61824	RPU2	3.0	Solar Photovoltaic	SUN	PV
2018	6	61376	SunSelect 1	Industrial	SunSelect1	CA	61754	1	2.0	Natural Gas Internal Combustion Engine	NG	IC
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV
2018	6	60947	Tesla Inc.	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	6	61522	Viridity Energy Solutions, Inc.	IPP	Viridity Energy Solutions ACUA	NJ	61923	VACUA	1.0	Batteries	MWH	BA
2018	6	61277	Vista Energy Storage, LLC	IPP	Vista Energy Storage System	CA	61661	VISTA	40.0	Batteries	MWH	BA
2018	7	61012	AES Distributed Energy	IPP	Anheuser-Busch Baldwinsville	NY	61575	BAL01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Columbia University - Johnson Farms	NY	61576	JF01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Columbia University - Minisink	NY	61578	MIN01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	St. Lawerence University - Sutton	NY	61579	SUT01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61012	AES Distributed Energy	IPP	Time Warner Cable Enterprises - Martino	NY	61577	MRT01	2.0	Solar Photovoltaic	SUN	PV
2018	7	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV
2018	7	60146	Ameresco Federal Solutions	IPP	Fort Bliss (DEA EPIC)	TX	61887	DEPIC	2.0	Solar Photovoltaic	SUN	PV
2018	7	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV
2018	7	59474	BQ Energy LLC	IPP	Sunlight Beacon	NY	61922	BEACO	2.0	Solar Photovoltaic	SUN	PV
2018	7	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC1	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC10	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC11	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC12	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC2	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC3	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC4	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC5	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC6	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC7	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC8	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC9	18.8	Natural Gas Internal Combustion Engine	NG	IC
2018	7	61060	Cypress Creek Renewables	IPP	Old Caroleen Solar Farm	NC	61534	GEN1	2.0	Solar Photovoltaic	SUN	PV
2018	7	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Smyrna	DE	61800	AMPSM	1.2	Solar Photovoltaic	SUN	PV
2018	7	61407	Delta Solar Power II, LLC	IPP	Delta Solar Power II	MI	61955	DSPII	15.2	Solar Photovoltaic	SUN	PV
2018	7	61304	Foreman's Hill CSG LLC	IPP	Foreman's Hill Community Solar	MN	61690	FOREM	5.0	Solar Photovoltaic	SUN	PV
2018	7	61499	Georgia-Pacific Wood Products LLC	Industrial	Georgia-Pacific Taylorsville Plywood	MS	61927	CTG1	6.2	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV
2018	7	61520	Kearsarge Oppenheim LLC	IPP	Kearsarge Oppenheim	NY	61917	OPPEN	1.4	Solar Photovoltaic	SUN	PV

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	7	11161	Loma Linda University	Commercial	Loma Linda University Cogen	CA	10206	GEN5	1.0	Petroleum Liquids	DFO	IC
2018	7	61383	MN Solar Community, LLC	IPP	Sherburne North Project	MN	61762	SHERB	5.0	Solar Photovoltaic	SUN	PV
2018	7	61461	Mustang Solar LLC	IPP	Mustang Solar	NC	61533	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	7	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV
2018	7	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT
2018	7	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-1	2.3	Onshore Wind Turbine	WND	WT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-2	2.3	Onshore Wind Turbine	WND	WT
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-3	2.3	Onshore Wind Turbine	WND	WT
2018	7	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV
2018	7	61284	Scandia CSG LLC	IPP	Scandia Community Solar Garden	MN	61669	SCAND	2.5	Solar Photovoltaic	SUN	PV
2018	7	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV
2018	7	17650	Southern Power Co	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT
2018	7	61188	West Texas A&M University	Commercial	UL Advanced Wind Turbine Test Facility	TX	61589	UT-1	3.4	Onshore Wind Turbine	WND	WT
2018	8	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV06	2.5	Batteries	MWH	BA
2018	8	58261	Arkwright Summit Wind Farm LLC	IPP	Arkwright Summit Wind Farm LLC	NY	61673	WT	78.4	Onshore Wind Turbine	WND	WT
2018	8	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	10.0	Solar Photovoltaic	SUN	PV
2018	8	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV
2018	8	61256	Betcher CSG LLC	IPP	Betcher Community Solar Garden	MN	61671	BETCH	1.0	Solar Photovoltaic	SUN	PV
2018	8	61410	Broad Street Fuel Cell, LLC	IPP	Trinity College Fuel Cell	CT	61786	MB-22	1.4	Other Natural Gas	NG	FC
2018	8	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	8	60609	Clean Focus Renewables, Inc.	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV
2018	8	61060	Cypress Creek Renewables	IPP	Antanavica Solar	MA	61526	GEN1	1.0	Solar Photovoltaic	SUN	PV
2018	8	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV
2018	8	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation California Training Facility	CA	61442	WTG1	1.8	Onshore Wind Turbine	WND	WT
2018	8	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Salinas Valley State Prison	CA	61444	WTG1	1.8	Onshore Wind Turbine	WND	WT
2018	8	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV
2018	8	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV
2018	8	61287	Johnson I CSG LLC	IPP	Johnson 1 Community Solar	MN	61686	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	8	61346	Lisbon East	IPP	COU Solar I, LLC	NY	61720	LECOU	1.5	Solar Photovoltaic	SUN	PV
2018	8	61345	Lisbon West	IPP	CJ Solar I, LLC	NY	61719	LWCJ1	2.0	Solar Photovoltaic	SUN	PV
2018	8	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CS
2018	8	56990	NJR Clean Energy Ventures Corporation	IPP	Old Bridge Solar Farm	NJ	61600	OLDBR	8.8	Solar Photovoltaic	SUN	PV
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT
2018	8	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA
2018	8	61348	PCS Energy, LLC	Industrial	Aerolease	CA	61718	APLEX	1.1	Solar Photovoltaic	SUN	PV
2018	8	61575	Pacific Ethanol Madera	Industrial	Pacific Ethanol Madera Solar Array	CA	61989	PV	3.9	Solar Photovoltaic	SUN	PV
2018	8	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	3.8	Solar Photovoltaic	SUN	PV
2018	8	57081	WGL Energy Systems, Inc	IPP	Cornillie	MN	61977	SO334	1.0	Solar Photovoltaic	SUN	PV

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2018	1	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	7	2.8	Petroleum Liquids	DFO	GT
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	1	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	2	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	3	795.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 4	TX	6648	4	600.0	Conventional Steam Coal	LIG	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 5	TX	52071	5	600.0	Conventional Steam Coal	LIG	ST
2018	1	58247	National Centers for Animal Health	Commercial	NCAH Central Utility Plant	IA	58265	S-7A	1.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	17887	St Joseph's Hospital	Commercial	St Josephs Hospital	FL	54534	0001	1.6	Natural Gas Internal Combustion Engine	NG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2018	2	7011	Gas Recovery Services-IL Inc	IPP	Mallard Lake Electric	IL	55592	1	3.8	Landfill Gas	LFG	CT
2018	2	7011	Gas Recovery Services-IL Inc	IPP	Mallard Lake Electric	IL	55592	2	3.8	Landfill Gas	LFG	CT
2018	2	7011	Gas Recovery Services-IL Inc	IPP	Mallard Lake Electric	IL	55592	4	7.6	Landfill Gas	LFG	CA
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	1	606.0	Conventional Steam Coal	SUB	ST
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	2	602.0	Conventional Steam Coal	SUB	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	03	130.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN1	1.7	Landfill Gas	LFG	IC
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN2	1.7	Landfill Gas	LFG	IC
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN3	1.7	Landfill Gas	LFG	IC
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN4	1.7	Landfill Gas	LFG	IC
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN5	1.7	Landfill Gas	LFG	IC
2018	2	56772	TX LFG Energy, LP	IPP	Atascosita	TX	55526	GEN6	1.7	Landfill Gas	LFG	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	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	1	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	2	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	3	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	4	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	5	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	6	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2018	3	12199	Montana-Dakota Utilities Co	Electric Utility	Portable Generator 1	ND	59196	IC1	2.0	Petroleum Liquids	DFO	IC
2018	3	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN2	6.0	Wood/Wood Waste Biomass	WDS	ST
2018	3	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	1	247.0	Conventional Steam Coal	SUB	ST
2018	3	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	2	247.0	Conventional Steam Coal	SUB	ST
2018	3	18642	Tennessee Valley Authority	Electric Utility	Allen	TN	3393	3	247.0	Conventional Steam Coal	SUB	ST
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2018	4	11460	City of Macon - (MO)	Electric Utility	Macon	MO	2141	3	4.6	Petroleum Liquids	DFO	IC
2018	4	59936	Georgia-Pacific Consumer Operations (Camas) LLC	Industrial	Consumer Operations LLC	WA	57759	STG1	16.3	Wood/Wood Waste Biomass	BLQ	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	1	594.0	Conventional Steam Coal	RC	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	2	594.0	Conventional Steam Coal	RC	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	3	2.0	Petroleum Liquids	DFO	IC
2018	5	57017	DOE National Renewable Energy Laboratory	Commercial	DOE Golden NWTC Turbine Side	CO	57693	ALSTO	3.0	Onshore Wind Turbine	WND	WT
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	3	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	4	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	7	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	8	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	1	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	2	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	3	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	4	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	5	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	6	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	7	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	8	2.9	Conventional Hydroelectric	WAT	HY
2018	5	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	5	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	57400	Evergreen Community Power, LLC	Industrial	Evergreen Community Power	PA	58023	ECP	25.0	Wood/Wood Waste Biomass	WDS	ST
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO4	1.0	Landfill Gas	LFG	IC

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO5	1.0	Landfill Gas	LFG	IC
2018	5	10071	Kauai Island Utility Cooperative	Electric Utility	KRS II Koloa Solar	HI	58640	BESS3	1.5	Batteries	MWH	BA
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	3	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	4	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	GT1	14.0	Petroleum Liquids	DFO	GT
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	1	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	2	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	1	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	2	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	3	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	5	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	6	12.0	Petroleum Liquids	DFO	GT
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Baxter Wilson	MS	2050	2	530.7	Natural Gas Steam Turbine	NG	ST
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Rex Brown	MS	2053	3	29.3	Natural Gas Steam Turbine	NG	ST
2018	6	3303	Florida Power Development	IPP	Florida Power Development	FL	10333	GEN1	66.0	Other Waste Biomass	OBS	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	1	11.0	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	3	17.9	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H10	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H11	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H4	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H5	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H6	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H7	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H8	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H9	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Milton L Kapp	IA	1048	2	112.5	Natural Gas Steam Turbine	NG	ST
2018	6	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	11217	Los Angeles County Sanitation	IPP	Commerce Refuse To Energy	CA	10090	GEN1	10.0	Municipal Solid Waste	MSW	ST
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT1	1.0	Landfill Gas	LFG	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT2	1.0	Landfill Gas	LFG	IC
2018	7	56772	TX LFG Energy, LP	IPP	Coastal Plains	TX	55554	UNT2	1.7	Landfill Gas	LFG	IC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	63	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	64	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	65	0.3	Other Natural Gas	NG	FC
2018	8	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	67	0.3	Other Natural Gas	NG	FC

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	9	60281	Altus Power America Management, LLC	IPP	Big George PV	MA	61429	12344	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	9	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	GRDMT	4.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.4
2018	9	1015	Austin Energy	Electric Utility	Kingsberry Energy Storage System	TX	61741	KBESS	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2018	9	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	9	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	9	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	9	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	9	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	9	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Brule County Wind	SD	61746	BCSD	20.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	20.0
2018	9	4254	Consumers Energy Co	Electric Utility	Parkview Battery	MI	61909	PKVWB	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.1
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	9	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	9	61060	Cypress Creek Renewables	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	9	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Piqua Staunton	OH	61805	AMPPS	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	9	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	9	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2018	9	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	200.0
2018	9	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2018	9	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	121.5
2018	9	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2018	9	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	9	60025	Greenbacker Renewable Energy Corporation	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(TS) Construction complete, but not yet in commercial operation	555.0
2018	9	61309	Johnson II CSG LLC	IPP	Johnson II Community Solar	MN	61695	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2018	9	12199	Montana-Dakota Utilities Co	Electric Utility	Thunder Spirit Wind, LLC	ND	58965	2	48.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	48.0
2018	9	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CS	(TS) Construction complete, but not yet in commercial operation	529.0
2018	9	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.1
2018	9	61209	NC 102 Project LLC	IPP	NC 102 Project LLC	NC	61610	NC102	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	9	56990	NJR Clean Energy Ventures Corporation	IPP	Springfield Solar Project	NJ	61907	NJLND	7.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	7.5
2018	9	61598	Novel Solar Three, LLC	IPP	Gibbon Solar	MN	62010	PGRK1	3.3	Solar Photovoltaic	SUN	PV	(OP) Operating	3.3
2018	9	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	9	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	9	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	9	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	9	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG3	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	9	61495	Persimmon Creek Wind Farm 1, LLC	IPP	Persimmon Creek Wind Farm 1, LLC	OK	61876	PCWF1	198.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.6
2018	9	61298	Pine Gate Renewables	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2018	9	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	160.0
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	61441	Sun Farm VI, LLC	IPP	Sun Farm VI, LLC	NC	61842	PV1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	9	18454	Tampa Electric Co	Electric Utility	Balm Solar	FL	61654	PV1	74.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.4
2018	9	18454	Tampa Electric Co	Electric Utility	Payne Creek Solar	FL	61665	GEN1	70.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	70.3
2018	9	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	100.0
2018	10	61012	AES Distributed Energy	IPP	Broadalbin-Perth Solar	NY	61958	BAP1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	10	61529	Adams Nielson Solar, LLC	IPP	Adams Nielson Solar	WA	61933	ADAMS	19.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.2
2018	10	61514	Agilitas Energy, LLC	IPP	Blydenburgh Solar Project	NY	61900	BLYD	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	10	61514	Agilitas Energy, LLC	IPP	Lincoln Ave Solar Project	NY	61899	LINC	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	10	60281	Altus Power America Management, LLC	IPP	Corcoran	MN	61971	201	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	60281	Altus Power America Management, LLC	IPP	Corcoran	MN	61971	202	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	60281	Altus Power America Management, LLC	IPP	Corcoran	MN	61971	203	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	60281	Altus Power America Management, LLC	IPP	Corcoran	MN	61971	204	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	60281	Altus Power America Management, LLC	IPP	Corcoran	MN	61971	205	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	CARPT	1.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.6
2018	10	60146	Ameresco Federal Solutions	IPP	MCRD Parris Island PV	SC	61956	TBESS	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2018	10	61230	CD Arevon USA, Inc.	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	252.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	61568	Chisago Holdco LLC	IPP	Chisago Holdco LLC	MN	61968	CHIS	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2018	10	3037	City of Carlyle - (IL)	Electric Utility	Carlyle	IL	936	11	2.8	Petroleum Liquids	DFO	IC	(OT) Other	2.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	10	56769	Consolidated Edison Development Inc.	IPP	Aurora County Wind	SD	61745	ACSD	20.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	20.0
2018	10	61060	Cypress Creek Renewables	IPP	Buckleberry Solar	NC	61693	GEN	52.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.1
2018	10	61060	Cypress Creek Renewables	IPP	Chisum	TX	61810	GEN1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Eddy II	TX	61874	GEN1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.2
2018	10	61060	Cypress Creek Renewables	IPP	Saint Albans Solar	VT	61928	GEN1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2018	10	61060	Cypress Creek Renewables	IPP	Staunton	IN	61885	GEN1	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2018	10	61060	Cypress Creek Renewables	IPP	Sterling Solar (TX)	TX	61871	GEN1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	10	61060	Cypress Creek Renewables	IPP	Yellow Jacket	TX	61873	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	10	61187	DG Minnesota CSG, LLC	IPP	Cottage Grove Project	MN	61983	COTG	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	10	58970	Ecoplexus, Inc	IPP	Folsom SP and CSP Sacramento	CA	61698	FOLSM	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2018	10	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	10	7019	Gay & Robinson Inc	Industrial	Gay Robinson	HI	50333	HYD3	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2018	10	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	10	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2018	10	61334	Libra Community Solar Garden, LLC	IPP	Libra Community Solar	MN	61709	LIBR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2018	10	61373	MERIT SI	IPP	Rotor Clip	NJ	61751	RCLIP	2.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.8
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41327	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41328	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41330	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	10	56545	Pattern Operators LP	IPP	Stillwater Wind, LLC	MT	61858	WT	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2018	10	61353	Philadelphia Authority for Industrial Development	IPP	Navy Yard Peaker Station	PA	61737	GEN4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.0
2018	10	61585	Pisces Community Solar Garden LLC	IPP	Pisces Community Solar Garden	MN	61992	CRUX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61507	Plumsted 537 LLC	IPP	Plumsted 537 LLC	NJ	61892	PLMST	19.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	19.8
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	600.0
2018	10	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	10.0
2018	10	61587	Sagittarius Community Solar Gardens LLC	IPP	Sagittarius Community Solar Gardens LLC	MN	61994	CRUX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61506	Stryker 22, L.L.C.	IPP	Stryker 22, L.L.C.	NJ	61891	EDGRD	19.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	19.8
2018	10	59138	SunPower Corporation, Systems	IPP	Gavilan District College Solar Project	CA	61993	GDCBA	0.5	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.5
2018	10	59138	SunPower Corporation, Systems	IPP	Gavilan District College Solar Project	CA	61993	GDCPV	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2018	10	60947	Tesla Inc.	IPP	Estrella Mountain PV	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	10	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(OT) Other	3.0
2018	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2018	10	61580	USS Big Lake 1 LLC	IPP	USS Big Lake 1	MN	61997	USSBL	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61582	USS Kasch Solar LLC	IPP	USS Kasch Solar	MN	61999	USSKA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	61583	USS Rockpoint Solar LLC	IPP	USS Rockpoint Solar	MN	62000	USSRP	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	10	57081	WGL Energy Systems, Inc	IPP	Susquehanna University Solar	PA	61914	SO829	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	11	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	105.0
2018	11	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2018	11	61531	Casa Mesa Wind, LLC	IPP	Casa Mesa Wind Energy Center	NM	61925	CMNM	50.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.9
2018	11	61531	Casa Mesa Wind, LLC	IPP	Casa Mesa Wind Energy Center	NM	61925	CMNMB	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2018	11	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(V) Under construction, more than 50 percent complete	58.2
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.9
2018	11	61060	Cypress Creek Renewables	IPP	Bovine	TX	61867	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Bronson	TX	61868	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Cascade Solar (TX)	TX	61875	GEN1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	11	61060	Cypress Creek Renewables	IPP	Hopewell Friends	NC	61883	GEN1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2018	11	61060	Cypress Creek Renewables	IPP	Pinesage	NC	61978	GEN1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	11	61060	Cypress Creek Renewables	IPP	West Moore Solar II	TX	61625	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	11	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	2	1.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Rensselaer Solar Site 2	IN	61799	SREN2	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Site 2	IN	61729	SRIC2	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.5
2018	11	61487	Montevideo Solar LLC	IPP	Montevideo Solar LLC	MN	61870	MONTE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	11	56990	NJR Clean Energy Ventures Corporation	IPP	Quakertown Solar Farm, LLC	NJ	61965	QKRTN	8.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.8
2018	11	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2018	11	58489	OCI Solar Power	IPP	Ivory Solar	TX	61697	IVORY	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	11	34691	Ormat Nevada Inc	Commercial	McGinness Hills 3	NV	61912	OEC31	17.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2018	11	34691	Ormat Nevada Inc	Commercial	McGinness Hills 3	NV	61912	OEC32	20.0	Geothermal	GEO	BT	(V) Under construction, more than 50 percent complete	37.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	1.2
2018	11	61414	Rattlesnake Creek Wind Project, LLC	IPP	Rattlesnake Creek Wind Project	NE	59292	RCWP	318.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	318.1
2018	11	61333	Sagitta Community Solar Garden, LLC	IPP	Sagitta Community Solar	MN	61708	SAGI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	11	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind II	CA	61582	VYGR2	128.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	128.7
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind III	CA	61583	VYGR3	43.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	43.2
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind IV	CA	61584	VYGR4	21.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	21.6
2018	12	61482	AES ES GILBERT, LLC	IPP	AES ES GILBERT	AZ	61861	SRP	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2018	12	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	61327	Arcturus Community Solar Garden, LLC	IPP	Arcturus Community Solar	MN	61705	ARCT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.0
2018	12	61530	Armadillo Flats Wind Project, LLC	IPP	Armadillo Flats Wind Project, LLC	OK	61926	ARM	250.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	250.0
2018	12	61328	Auriga Community Solar Garden, LLC	IPP	Auriga Community Solar	MN	61706	AURI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	166.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	166.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	212.0
2018	12	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	12	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2018	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
2018	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
2018	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
2018	12	61545	Blacktip Solar, LLC	IPP	Blacktip Solar	SC	61939	5	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	61563	Blue Summit II Wind, LLC	IPP	Blue Summit II Wind, LLC	TX	61970	BSII	99.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	99.4
2018	12	61230	CD Arevon USA, Inc.	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2018	12	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2018	12	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2018	12	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2018	12	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	3.3
2018	12	61571	Clara City CSG I, LLC	IPP	Syncarpha Clara City CSG I (Stamer)	MN	61980	SCSG1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Wistaria Ranch Solar	CA	61750	WICA	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	106.7
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYN	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYS	2.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	12	61540	Coolridge Solar I, LLC	IPP	Coolridge Solar 1, LLC	VT	61959	COLS	19.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.6
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	12	61528	Cumberland Land Holdings, LLC	IPP	Cumblerland Land Holdings, LLC	AL	61924	CUMB	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2018	12	61060	Cypress Creek Renewables	IPP	Copperfield	NC	61882	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	61060	Cypress Creek Renewables	IPP	Morning View	NC	61881	GEN1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Brewster	OH	61818	AMPBR	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2018	12	61567	DP-C2 Episode 1 LLC	IPP	Blackville Solar II	SC	61973	C2BV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	61567	DP-C2 Episode 1 LLC	IPP	Diamond Solar II	SC	61974	C2BV	8.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.2
2018	12	61567	DP-C2 Episode 1 LLC	IPP	Edison Solar II	SC	61975	C2BV	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.8
2018	12	61567	DP-C2 Episode 1 LLC	IPP	Richardson Solar II	SC	61972	C2BV	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.6
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	161.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Hamilton Solar Power Plant	FL	61807	PV1	74.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.9
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	201.0
2018	12	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	61404	Edenton Solar	IPP	Edenton Solar	NC	61781	EDE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	61413	Enel Green Power Diamond Vista Wind Project, LLC	IPP	Diamond Vista Wind Project, LLC	KS	61789	DV	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2018	12	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2018	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	56201	Engie North America	IPP	Live Oak Wind Project	TX	61782	WTGS	199.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.5
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	61579	FL Solar 5, LLC	IPP	Citrus Ridge Solar	FL	61988	FL501	52.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.0
2018	12	59745	First Solar Asset Management	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	59745	First Solar Asset Management	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Mann Packing	CA	61443	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	12	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	97.0
2018	12	61548	Gary Solar, LLC	IPP	Gary Solar	SC	61942	8	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	61214	Heartland Divide Wind Project, LLC	IPP	Heartland Divide Wind Project, LLC	IA	61609	1	103.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	103.5
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	33.3
2018	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	36.0
2018	12	49893	Invenergy Services LLC	IPP	Upstream Wind Energy LLC	NE	61784	UWE	202.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.5
2018	12	61342	Leo Community Solar, LLC	IPP	Leo Community Solar	MN	61713	LEO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	61133	Lorenzo Wind, LLC	IPP	Lorenzo Wind	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2018	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2018	12	61381	Meadow Lake Wind Farm VI LLC	IPP	Meadow Lake Wind Farm VI LLC	IN	61756	MWLVI	200.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.4
2018	12	12341	MidAmerican Energy Co	Electric Utility	Ivester Wind Farm	IA	61911	WT1	90.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.8
2018	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	182.0
2018	12	61396	Midway Wind, LLC	IPP	Midway Wind, LLC	TX	61776	MIDWY	162.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	162.9
2018	12	61458	Minco Wind IV, LLC	IPP	Minco Wind IV, LLC	OK	61836	MIV	130.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	130.0
2018	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	220.0
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	CTG1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.6
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	STG	1.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.0
2018	12	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5
2018	12	58764	Origis Energy USA, Inc	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2018	12	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2018	12	61603	Page Solar Farm, LLC	IPP	Page Solar	NC	62018	PGRI1	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2018	12	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC	141.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	141.1
2018	12	61566	Peony Solar, LLC	IPP	Peony Solar	SC	61976	PGRG1	39.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	39.0
2018	12	61537	Pratt Wind, LLC	IPP	Pratt Wind, LLC	KS	61957	PW	220.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	243.0
2018	12	61573	Prinsburg CSG I, LLC	IPP	Syncarpha Prinsburg CSG (Ledeboer)	MN	61979	SYPRN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	12	61605	Riverhead Solar Farm LLC	IPP	Riverhead Solar Farm	NY	62017	RIV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	53.0
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
2018	12	61591	Solar University, LLC	IPP	UC Merced Solar	CA	61995	UCMBA	0.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	0.5
2018	12	61591	Solar University, LLC	IPP	UC Merced Solar	CA	61995	UCMPV	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2018	12	61556	South Solar, LLC	IPP	South Solar	SC	61949	13	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2018	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	12	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	12	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2018	12	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0

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	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	92.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	92.0
2018	12	61527	Tahoka Wind, LLC	IPP	Tahoka Wind	TX	61921	TAH	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2018	12	18454	Tampa Electric Co	Electric Utility	Bonnie Mine Solar	FL	61655	PV1	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2018	12	18454	Tampa Electric Co	Electric Utility	Grange Hall Solar	FL	61656	PV1	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2018	12	18454	Tampa Electric Co	Electric Utility	Lithia Solar	FL	61663	GEN1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	12	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	55.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	55.0
2018	12	18454	Tampa Electric Co	Electric Utility	Peace Creek Solar	FL	61666	GEN	56.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.6
2018	12	61532	Techren Solar I LLC	IPP	Techren	NV	61611	TECH1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	394.0
2018	12	61436	Titan Solar, LLC	IPP	Titan Solar	CO	61811	PCEC	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	61562	Torrecillas Wind Energy, LLC	IPP	Torrecillas Wind Energy, LLC	TX	61969	TWE	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(TS) Construction complete, but not yet in commercial operation	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSLFG	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	12	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2018	12	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	12	61291	Wildcat Ranch Wind Project, LLC	IPP	Wildcat Ranch Wind Project	TX	61674	WT	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2018	12	61366	Woods Hill Solar, LLC	IPP	Woods Hill Solar	CT	61736	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2019	1	61541	1634 Solar, LLC	IPP	1634 Solar	SC	61935	3	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61543	ACE Solar, LLC	IPP	Ace Solar	SC	61937	18	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2019	1	61542	Abbot Solar, LLC	IPP	Abbot Solar	SC	61936	2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	1	61544	Bani Solar, LLC	IPP	Bani Solar	SC	61938	4	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61546	Bloom Solar, LLC	IPP	Bloom Solar	SC	61940	6	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61547	Bond Solar, LLC	IPP	Bond Solar	SC	61941	7	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	1	61060	Cypress Creek Renewables	IPP	Atood II	SC	61960	GEN1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2019	1	61060	Cypress Creek Renewables	IPP	Bar D	CO	61886	GEN1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2019	1	61060	Cypress Creek Renewables	IPP	Gaston II	SC	61961	GEN1	7.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.5
2019	1	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	2.0
2019	1	5701	El Paso Electric Co	Electric Utility	New Mexico Community Solar Facility	NM	61783	NMCSF	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	6452	Florida Power & Light Co	Electric Utility	Interstate Solar Energy Center	FL	61768	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Miami Dade Solar Energy Center	FL	61766	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Pioneer Trail Solar Energy Center	FL	61767	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Sunshine Gateway Solar Energy Center	FL	61763	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2019	1	61518	Frontenac Holdco LLC	IPP	Frontenac Holdco LLC	MN	61919	FRONT	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	1	61549	Goldenrod Solar, LLC	IPP	Goldenrod Solar	SC	61943	9	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61365	Hilltopper Wind Project, LLC	IPP	Hilltopper Wind Project	IL	61735	WT1	185.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	185.0
2019	1	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2019	1	61550	Jessamine Solar, LLC	IPP	Jessamine Solar	SC	61944	10	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2019	1	61289	Kaus Community Solar Garden, LLC	IPP	Kaus Community Solar	MN	61716	KAUS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2019	1	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	1.6
2019	1	61552	Pelzer Solar I, LLC	IPP	Pelzer Solar I	SC	61945	19	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2019	1	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2019	1	61553	Redwing Solar, LLC	Industrial	Redwing Solar	SC	61946	11	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61554	River Solar, LLC	IPP	River Solar	SC	61947	12	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61614	Rollingstone Holdco LLC	IPP	Rollingstone Holdco CSG	MN	62037	ROLLI	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	1	61555	Sapphire Solar, LLC	IPP	Sapphire Solar	SC	61948	17	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	BAT1	9.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	9.9
2019	1	61557	Vincent Solar, LLC	IPP	Vincent Solar	SC	61950	14	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61558	Watauga Solar, LLC	IPP	Watauga Solar	SC	61951	15	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61559	Whitt Solar, LLC	IPP	Whitt Solar	SC	61952	20	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	61560	Willis Solar, LLC	IPP	Willis Solar	SC	61953	16	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA01	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA02	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA1C	11.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.8
2019	2	61259	Altair Community Solar Garden, LLC	IPP	Altair Community Solar Garden	MN	61645	ALTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61325	Aquarius Community Solar Gardens, LLC	IPP	Aquarius Community Solar	MN	61710	AQUA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2019	2	61326	Aquila Community Solar Gardens, LLC	IPP	Aquila Community Solar	MN	61704	AQUI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	161.9
2019	2	61329	Canopus Community Solar Garden, LLC	IPP	Canopus Community Solar	MN	61707	CANO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61337	Cassiopeia Community Solar Garden, LLC	IPP	Cassiopeia Community Solar	MN	61711	CASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	61467	Central CA Fuel Cell 2, LLC	IPP	Tulare WWTP BioMat Fuel Cell	CA	61846	MM27	2.8	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	2.8
2019	2	61339	Deneb Community Solar Garden, LLC	IPP	Deneb Community Solar	MN	61715	DENE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	2	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
2019	2	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2019	2	61613	Sartell Holdco LLC	IPP	Sartell Holdco CSG	MN	62036	SARTE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	3	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2019	3	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2019	3	61260	Capricornus Community Solar Garden, LLC	IPP	Capricornus Community Solar Garden	MN	61651	CAPR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	3	61338	Crux Community Solar Gardens, LLC	IPP	Crux Community Solar	MN	61712	CRUX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2019	3	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN3	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0

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	3	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	93.5
2019	3	60846	GRP Madison Renewable Energy Facility, LLC	IPP	GRP Madison Renewable Energy Facility	GA	61213	GEN	65.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	65.0
2019	3	61456	Hope Farm Solar, LLC	IPP	Hope Farm Solar, LLC	RI	61840	HOPE	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	3	9417	Interstate Power and Light Co	Electric Utility	English Farms	IA	61565	1	169.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	169.9
2019	3	9417	Interstate Power and Light Co	Electric Utility	Upland Prairie	IA	61564	1	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2019	3	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.0
2019	3	60987	Lanikuhana Solar LLC	IPP	Lanikuhana Solar LLC	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.7
2019	3	61606	Lindstrom Solar LLC	IPP	Nautilus Lindstrom Solar CSG	MN	62030	LI	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	18	13.5	Petroleum Liquids	DFO	GT	(V) Under construction, more than 50 percent complete	15.4
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	19	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2019	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	3	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	3	61607	Saint Cloud Solar, LLC	IPP	Nautilus Saint Cloud Solar CSG	MN	62031	SC	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2019	3	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	45.9
2019	3	61609	Winsted Solar LLC	IPP	Nautilus Winsted Solar CSG	MN	62032	WS	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	3	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	4	58519	Clean Energy Collective LLC	IPP	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	4	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2019	4	61060	Cypress Creek Renewables	IPP	Lampwick	TX	61872	GEN1	7.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	7.5
2019	4	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2019	4	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
2019	4	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	4	19547	Hawaiian Electric Co Inc	Electric Utility	West Loch Solar One	HI	61987	WLS1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2019	4	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	4	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	4	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	152.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.5
2019	4	13902	NorthWestern Energy	Electric Utility	Hauser	MT	2185	HAU7	3.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	4	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2019	4	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
2019	4	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
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K4	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K5	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K6	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K7	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2019	4	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2019	5	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.2
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	525.0
2019	5	61519	Blackville Solar Farm, LLC	IPP	Blackville Solar Farm, LLC	SC	61918	1	7.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.2
2019	5	61060	Cypress Creek Renewables	IPP	West Moore Solar	TX	61624	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	5	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	5	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	220.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	220.5
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	5.4
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT2	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	5.4
2019	6	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2019	6	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	6	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2019	6	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	593.3
2019	6	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	158.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	158.0
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	352.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	352.8
2019	6	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2019	6	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
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	61401	North 301 Solar	IPP	North 301 Solar	NC	61778	N301	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2019	6	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	501	375.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	375.7
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	502	200.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.6
2019	6	61485	Rio Bravo Windpower, LLC	IPP	Rio Bravo Windpower, LLC	TX	61865	1	237.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	237.6
2019	6	61588	San Pablo Raceway, LLC	IPP	San Pablo Raceway	CA	62004	SPRWY	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	210.0
2019	6	61492	StraightUp Solar	IPP	John A Logan College Solar	IL	61878	JALC	1.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2019	6	61533	Techren Solar II LLC	IPP	Techren Solar II LLC	NV	61930	TECH2	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2019	6	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
2019	6	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
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM28	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM29	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	56201	Engie North America	IPP	Solomon Forks Wind Project, LLC	KS	61984	WTGS	275.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	275.6

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	7	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	7	61502	Sholes Wind Energy Center, LLC	IPP	Sholes Wind Energy Center	NE	61889	WSN1	160.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	160.0
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	8	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
2019	8	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	8	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	28.8
2019	8	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	8	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	8	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7
2019	9	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2019	9	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	9	61302	Depot Solar Center, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	9	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	150.0
2019	9	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	212.0
2019	9	58606	Mauka Fit One LLC	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.5
2019	9	61515	Phoebe Energy Project, LLC	IPP	Phoebe Solar	TX	61906	PHOEB	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2019	9	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2019	9	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	5.8
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	10.0
2019	9	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2019	9	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	61465	Brush Solar Center	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.8
2019	10	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	210.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	210.4
2019	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	10	61473	Morgan Solar Center	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	61330	Turtle Creek Wind Farm LLC	IPP	Turtle Creek Wind Farm LLC	IA	61638	TC1	200.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.1
2019	10	61472	Vale Solar Center	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	59260	Wright Solar Park LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2019	11	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2019	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind I	CA	60594	VYGR1	131.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	131.1
2019	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2019	12	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
2019	12	15399	Avangrid Renewables LLC	IPP	Montague Wind Power Facility LLC	OR	58099	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
2019	12	61474	Baker City Solar	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2019	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2019	12	61416	Cattle Ridge Wind Holdings, LLC	IPP	Cattle Ridge Wind Farm 1	SD	60503	CTTL1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2019	12	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58695	Coronal Development Services	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	58468	Dominion Renewable Energy	Electric Utility	Colonial Trail West	VA	61985	CTWS	142.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	142.4
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	56987	East Blackland Solar Project 1 LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	144.0
2019	12	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	272.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	272.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2019	12	59745	First Solar Asset Management	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	139.0
2019	12	61611	Glaciers Edge Wind Project LLC	IPP	Glaciers Edge Wind Project	IA	62035	GEW	202.7	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	202.7
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2019	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2019	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2019	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2019	12	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2019	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2019	12	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2019	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	12	61422	Mason Dixon Solar Center, LLC	IPP	Mason Dixon Solar Center	MD	61797	PV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2019	12	60442	New Colony Wind LLC	IPP	New Colony Wind Project	MT	60718	WT1	23.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	23.1
2019	12	56622	NextEra Energy Resources	IPP	Shaw Creek Solar, LLC	SC	61790	SHAWC	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	61480	Ontario Solar Center	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	56545	Pattern Operators LP	IPP	Crazy Mountain Wind LLC	MT	61859	WT	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	12	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV3	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	61589	RE Mustang Two LLC	IPP	Mustang Two	CA	62015	M2BAR	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2019	12	61589	RE Mustang Two LLC	IPP	Mustang Two	CA	62015	M2WHI	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2019	12	61586	Rankin Solar Center, LLC	IPP	Rankin Solar Center, LLC	SC	61996	RANKI	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2019	12	60646	Reading Wind Energy, LLC	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.1
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61455	Scituate RI Solar, LLC	IPP	Scituate RI Solar, LLC	RI	61841	SCITU	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61321	Seabrook Solar, LLC	IPP	Seabrook Solar	SC	61701	GEN1	70.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
2019	12	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	180.0
2019	12	17650	Southern Power Co	IPP	Wildhorse Mountain Wind Facility	OK	61866	1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	225.0
2019	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2019	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2019	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2019	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2019	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2019	12	60597	Violet Solar, LLC	IPP	Violet Solar	NC	60961	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	70.0
2019	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2020	1	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2020	1	55918	Acciona Wind Energy USA LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	144.9
2020	1	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2020	1	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	1	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	61429	Harvest Wind Energy, LLC	IPP	Harvest Wind Energy Project	IN	61823	1	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
2020	1	61594	Highlander Solar Station 1 LLC	IPP	Highlander Solar Station 1	VA	62014	HLND1	165.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	165.0
2020	1	61430	Summit Lake Wind, LLC	IPP	Summit Lake Wind Energy Project	MI	61812	1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	1	18454	Tampa Electric Co	Electric Utility	Alafia Solar	FL	61653	PV1	50.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	1	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2020	1	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.1
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	3	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	6455	Duke Energy Florida, LLC	Electric Utility	Columbia Solar Power Plant	FL	61982	PV	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2020	3	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	3	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2020	3	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2020	3	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	25.0
2020	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2020	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2020	4	58695	Coronal Development Services	IPP	Casper Solar Center	MD	61320	CSPSC	36.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	36.7
2020	4	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2020	4	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	5	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2020	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2020	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2020	6	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2020	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
2020	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	177.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
2020	6	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	6	55983	Luminant Generation Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2020	6	13402	Nevada Irrigation District	IPP	Loma Rica Hydroelectric Powerhouse	CA	60988	HY1	1.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.4
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	106.0
2020	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2020	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN2	228.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	253.0
2020	6	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2020	6	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
2020	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	6	60519	Williams Solar, LLC	IPP	Williams Solar, LLC	TX	60859	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2020	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	9	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	9	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	58468	Dominion Renewable Energy	Electric Utility	Spring Grove I	VA	61986	SGIS	97.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	97.9
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(OT) Other	5.3
2020	10	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2020	10	61593	Pleinmont Solar 2 LLC	IPP	Pleinmont Solar 2	VA	62013	PLNM2	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
2020	10	61590	Richmond Spider Solar LLC	IPP	Richmond Spider Solar	VA	62011	RMDSS	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	10	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2020	11	61331	Popular Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	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
2020	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
2020	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
2020	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
2020	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
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	12	60560	Big Blue Wind Farm, LLC (TX)	IPP	Big Blue River Wind Farm	IN	60907	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	12	61257	Blazing Star 2 LLC	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	61030	Bluegrove Wind, LLC	IPP	Bluegrove Wind	TX	61400	BLUGR	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	61031	Byers Wind, LLC	IPP	Byers Wind	TX	61401	BYERS	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	181.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	181.0
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2020	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2020	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2020	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
2020	12	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2020	12	60888	GCL New Energy, Inc.	IPP	Pioneer Solar (CO), LLC	CO	61991	PI-QF	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2020	12	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	218.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	230.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	110.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	116.0
2020	12	61010	Ord Mountain Solar, LLC	IPP	Ord Mountain Solar	CA	61372	ORDMT	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	56545	Pattern Operators LP	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	687.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	45.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV4	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV5	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN02	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
2020	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2020	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2021	1	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2021	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	1	58702	Fluence	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Lake Hancock Solar	FL	61657	PV1	49.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2021	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2021	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2021	3	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	3	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2021	4	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2021	4	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	260.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2021	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2021	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	5	14605	City of Peabody - (MA)	Electric Utility	Waters River	MA	1678	3	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2021	6	61523	225DD 8me LLC	IPP	Galloway Solar Farm	TX	61920	GSM01	360.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	360.0
2021	6	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2021	6	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	397.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	397.8
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	338.9	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	406.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	249.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	297.5
2021	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	6	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2021	7	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	7	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2021	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2021	9	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2021	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2021	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2021	12	60711	Battle Mountain SP, LLC	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2021	12	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2021	12	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	135.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
2021	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	259.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	310.2
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	233.7
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	4	61596	Lincoln Land Energy Center LLC	Commercial	Lincoln Land Energy Center	IL	62022	GEN1	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	4	61596	Lincoln Land Energy Center LLC	Commercial	Lincoln Land Energy Center	IL	62022	GEN2	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	319.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2022	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2022	4	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2022	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2022	6	61386	C4GT, LLC	IPP	C4GT	VA	61760	C4GT	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,060.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2022	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2022	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	40.0
2022	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(OT) Other	40.0
2022	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Sierra Energy Storage, LLC	CA	61803	10003	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2022	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2023	12	59380	Enel Green Power NA, Inc.	IPP	Kingston Energy Storage, LLC	CA	61802	10001	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2024	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2025	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM8	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	1	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM9	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	2	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM10	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM11	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	4	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM12	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2018	9	2872	Auburndale Peaker Energy Center LLC	IPP	Auburndale Peaker Energy Center	FL	55833	CTP	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	9	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2018	9	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	ST
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2018	10	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
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	8927	Hunterdon Cogeneration LP	Commercial	Hunterdon Cogen Facility	NJ	54707	1	4.1	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2018	10	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2018	10	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2018	10	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2018	10	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	7	76.1	Conventional Steam Coal	SUB	ST
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	8	133.8	Conventional Steam Coal	SUB	ST
2018	11	6306	Benson Power, LLC.	IPP	Benson Power Biomass Plant	MN	55867	G1	55.0	Wood/Wood Waste Biomass	WDS	ST
2018	11	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2018	11	13833	Northeastern Power Co	Electric CHP	Kline Township Cogen Facility	PA	50039	GEN1	51.0	Conventional Steam Coal	WC	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	59173	City of Tulare Water Pollution Control	Commercial	City of Tulare Water Facility	CA	59395	C2550	0.4	Other Waste Biomass	OBG	IC
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	1	10.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	2	11.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	1	1752	Biola University	Commercial	Biola University	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	1	1752	Biola University	Commercial	Biola University	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2019	1	19145	DTE Tuscola, LLC	Industrial	Tuscola Station	IL	55245	TG1	3.8	Natural Gas Steam Turbine	NG	ST
2019	1	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	1	106.0	Conventional Steam Coal	BIT	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	2	166.0	Conventional Steam Coal	BIT	ST
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN1	42.0	Natural Gas Fired Combined Cycle	NG	CT
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN2	8.0	Natural Gas Fired Combined Cycle	NG	CA
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	12	2.8	Petroleum Liquids	DFO	GT
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	13	2.9	Petroleum Liquids	DFO	GT
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	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	12773	Monmouth Energy Inc	IPP	Monmouth Landfill Gas to Energy	NJ	55618	GEN1	3.3	Landfill Gas	LFG	GT
2019	5	12773	Monmouth Energy Inc	IPP	Monmouth Landfill Gas to Energy	NJ	55618	GEN2	3.3	Landfill Gas	LFG	GT
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	5	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN1	2.8	Landfill Gas	LFG	GT
2019	10	16073	Riverview Energy Systems	IPP	Riverview Energy Systems	MI	54057	GEN2	2.8	Landfill Gas	LFG	GT
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2019	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN1	46.3	Conventional Steam Coal	BIT	ST
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN2	46.3	Conventional Steam Coal	BIT	ST
2019	12	228	City of Albany - (MO)	Electric Utility	Albany	MO	2113	1	2.1	Petroleum Liquids	DFO	IC
2019	12	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 2 Power Plant	CA	10349	GEN1	49.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV2	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV3	750.0	Conventional Steam Coal	BIT	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,000.4	Nuclear	NUC	ST
2020	4	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	1	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	2	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	3	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	4	180.0	Conventional Steam Coal	BIT	ST
2020	5	50161	FirstEnergy Nuclear Operating Company	IPP	Davis Besse	OH	6149	1	894.0	Nuclear	NUC	ST
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	Grand Haven Diesel Plant	MI	1826	1	8.4	Natural Gas Internal Combustion Engine	NG	IC
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN1	5.5	Natural Gas Steam Turbine	NG	ST
2020	12	50006	Invista	Industrial	Camden South Carolina	SC	10795	GEN2	5.5	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	15908	NRG California South LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	49.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	46.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,041.3	Nuclear	NUC	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	50161	FirstEnergy Nuclear Operating Company	IPP	Beaver Valley	PA	6040	1	907.0	Nuclear	NUC	ST
2021	5	50161	FirstEnergy Nuclear Operating Company	IPP	Perry	OH	6020	1	1,240.0	Nuclear	NUC	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	50161	FirstEnergy Nuclear Operating Company	IPP	Beaver Valley	PA	6040	2	901.0	Nuclear	NUC	ST
2021	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	801.8	Nuclear	NUC	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	SUB	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	2	140.0	Conventional Steam Coal	BIT	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	4	140.0	Conventional Steam Coal	BIT	ST
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN1	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN2	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN3	55.0	Petroleum Liquids	JF	GT
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	1	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	2	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	3	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	ST4	64.0	Conventional Steam Coal	BIT	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.0	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST

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	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	428.0	Conventional Steam Coal	SUB	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	Industrial	L'Oreal Piscataway	NJ	57868	UNIT1	1.1	Solar Photovoltaic	SUN	PV
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	75.0	Onshore Wind Turbine	WND	WT
2031	1	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	1	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2047	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2047	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV

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

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-August 2018

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.8%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.1%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	53.3%	55.5%	8.3%	12.4%	9.6%	11.5%	1.1%	2.6%
2017	53.7%	51.3%	6.7%	10.5%	9.9%	13.5%	0.9%	2.3%
Year 2016								
January	56.4%	56.4%	5.0%	7.1%	9.5%	10.1%	0.6%	3.1%
February	49.1%	53.6%	5.0%	7.4%	8.6%	10.6%	0.7%	2.8%
March	36.0%	50.2%	7.1%	10.2%	8.9%	8.9%	1.1%	2.2%
April	37.8%	47.6%	8.3%	11.7%	9.2%	9.7%	0.8%	2.1%
May	41.6%	52.5%	7.6%	12.3%	9.3%	11.4%	1.1%	2.5%
June	61.2%	63.9%	9.9%	17.5%	10.3%	13.3%	1.3%	2.1%
July	69.8%	68.2%	13.7%	23.1%	11.7%	16.9%	2.1%	2.1%
August	69.3%	70.8%	13.8%	21.1%	12.7%	15.1%	2.6%	2.3%
Sept	60.4%	60.7%	9.5%	14.6%	10.3%	12.9%	1.2%	2.3%
October	50.8%	47.8%	7.8%	11.4%	8.0%	8.8%	0.9%	2.4%
November	46.2%	46.3%	6.8%	6.5%	7.9%	9.9%	0.7%	2.8%
December	61.2%	47.5%	5.1%	5.4%	8.3%	10.1%	0.5%	4.0%
Year 2017								
January	59.9%	46.7%	5.3%	4.3%	9.2%	11.6%	0.7%	3.0%
February	49.7%	44.4%	5.4%	3.8%	7.9%	10.3%	0.8%	2.4%
March	46.3%	44.8%	6.5%	7.2%	7.8%	13.0%	0.8%	2.7%
April	43.6%	42.5%	5.6%	8.7%	8.0%	10.1%	0.6%	1.9%
May	48.4%	45.8%	6.0%	9.1%	8.2%	15.9%	0.8%	2.0%
June	58.5%	56.0%	7.3%	14.1%	10.3%	15.8%	0.8%	2.0%
July	67.1%	67.0%	9.1%	20.8%	13.0%	18.5%	0.9%	2.1%
August	62.9%	65.5%	8.0%	16.1%	12.3%	14.9%	0.9%	2.3%
Sept	53.8%	55.7%	7.8%	13.3%	10.9%	14.2%	1.1%	2.3%
October	47.5%	48.2%	6.6%	12.4%	10.2%	11.7%	0.9%	2.1%
November	49.3%	45.6%	5.8%	7.0%	10.1%	12.3%	0.7%	2.1%
December	56.2%	52.3%	6.4%	8.5%	10.3%	14.3%	1.4%	2.4%
Year 2018								
January	64.2%	54.0%	11.9%	13.1%	NA	19.0%	5.0%	NA
February	49.3%	55.1%	6.9%	6.5%	NA	11.8%	0.9%	NA
March	43.9%	51.5%	9.3%	8.4%	NA	10.9%	1.4%	NA
April	41.7%	48.0%	11.4%	8.5%	NA	12.7%	1.9%	NA
May	47.0%	52.3%	11.8%	16.7%	NA	9.2%	2.3%	NA
June	58.4%	61.9%	12.0%	17.7%	NA	15.2%	3.0%	NA
July	64.3%	73.0%	18.9%	25.5%	NA	14.3%	3.6%	NA
August	64.3%	72.2%	18.9%	22.3%	NA	15.8%	2.6%	NA

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

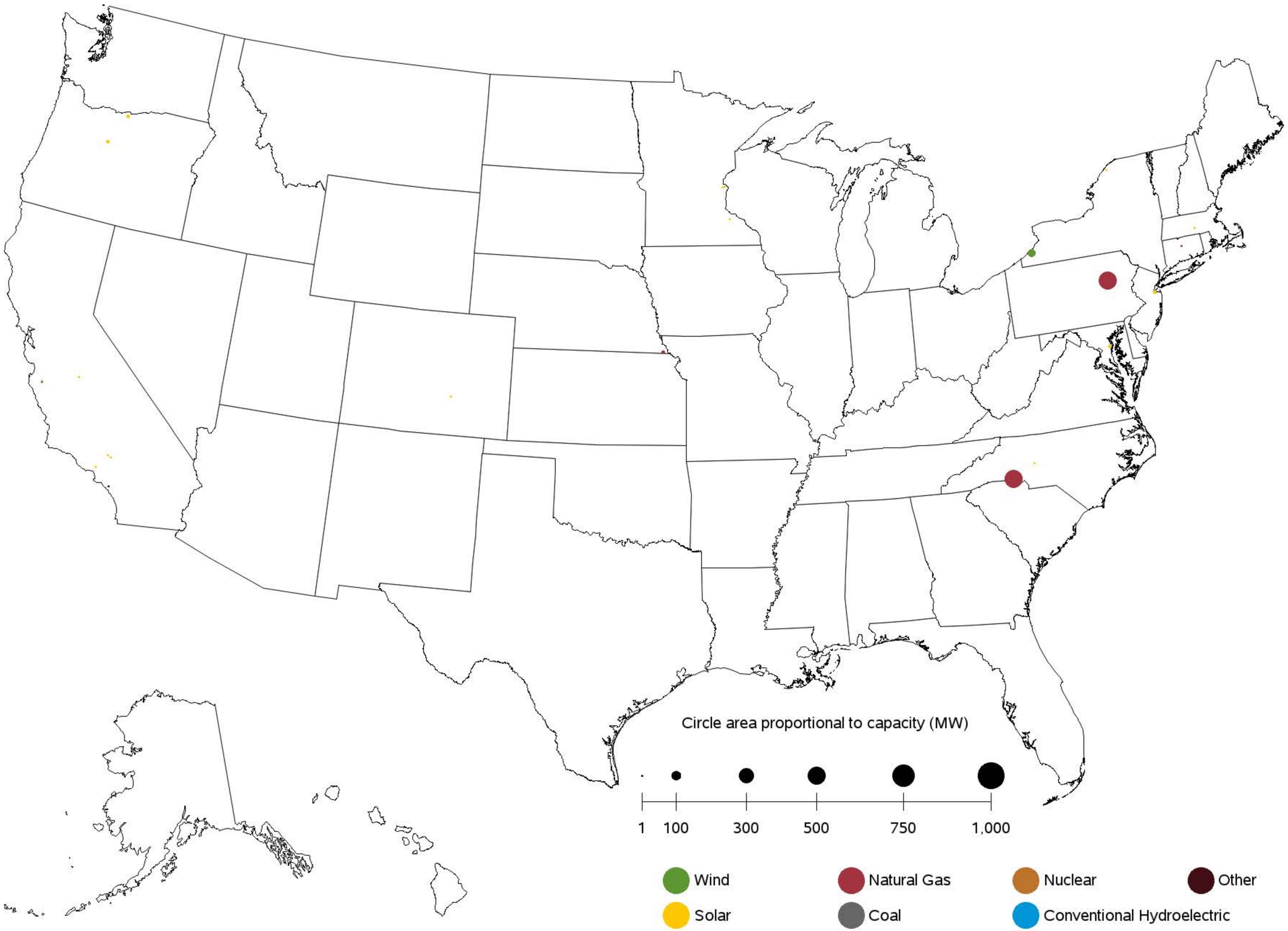
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.3%	38.2%	34.5%	25.1%	22.2%	69.7%	55.6%	73.9%
2017	92.2%	43.1%	34.6%	25.7%	21.8%	68.0%	57.8%	74.0%
Year 2016								
January	98.5%	43.6%	33.9%	15.2%	6.8%	68.3%	58.5%	73.4%
February	95.3%	43.8%	39.6%	22.9%	19.5%	67.6%	61.2%	73.2%
March	89.9%	45.9%	40.2%	24.9%	19.6%	67.2%	55.8%	72.5%
April	88.1%	44.6%	39.3%	27.2%	20.9%	69.3%	45.8%	68.8%
May	90.5%	42.8%	34.2%	30.2%	28.9%	72.9%	47.0%	73.9%
June	94.2%	40.6%	30.5%	30.3%	33.5%	72.0%	54.7%	71.2%
July	94.5%	36.1%	31.9%	31.7%	36.9%	70.9%	59.3%	72.2%
August	96.1%	33.0%	24.5%	31.7%	29.2%	70.3%	63.5%	73.0%
Sept	90.9%	28.6%	30.4%	28.5%	30.2%	67.9%	58.5%	75.5%
October	81.7%	29.3%	36.4%	24.0%	19.1%	63.8%	48.9%	74.6%
November	90.9%	32.8%	35.3%	20.4%	14.4%	72.6%	54.9%	77.7%
December	96.7%	37.9%	38.8%	16.2%	7.0%	73.4%	59.6%	80.1%
Year 2017								
January	98.7%	45.4%	32.6%	12.7%	7.3%	73.0%	59.7%	75.9%
February	95.0%	44.1%	38.6%	17.2%	11.7%	69.2%	59.9%	75.3%
March	87.8%	49.1%	40.6%	25.1%	22.9%	66.7%	60.7%	74.1%
April	79.1%	51.1%	41.1%	28.4%	24.9%	66.4%	52.3%	75.9%
May	82.7%	54.7%	36.2%	32.5%	31.0%	68.7%	49.9%	70.5%
June	93.4%	52.7%	32.9%	35.9%	37.9%	69.7%	56.7%	68.9%
July	96.2%	45.1%	25.6%	32.7%	25.4%	67.4%	60.4%	74.4%
August	97.7%	37.3%	21.8%	30.4%	27.6%	68.2%	60.8%	73.9%
Sept	94.9%	33.4%	29.5%	29.1%	29.2%	65.7%	55.2%	73.6%
October	89.0%	31.0%	40.2%	26.4%	24.1%	63.8%	54.1%	67.5%
November	92.9%	36.0%	39.1%	19.4%	10.3%	67.8%	59.9%	73.2%
December	99.4%	37.7%	38.0%	17.7%	9.0%	69.6%	63.3%	85.1%
Year 2018								
January	100.7%	45.0%	42.5%	18.7%	10.0%	72.1%	58.7%	76.6%
February	96.8%	49.2%	41.9%	22.9%	16.1%	76.7%	57.4%	80.5%
March	90.4%	45.0%	44.0%	26.3%	19.3%	73.2%	52.2%	78.2%
April	82.4%	49.9%	44.9%	31.2%	24.4%	71.6%	43.9%	70.3%
May	90.8%	54.1%	38.8%	31.9%	33.0%	68.9%	48.7%	78.8%
June	97.1%	51.6%	42.1%	34.5%	41.7%	76.5%	54.6%	76.2%
July	97.7%	43.3%	25.4%	31.6%	30.1%	75.6%	51.1%	78.0%
August	97.5%	37.7%	32.0%	31.0%	32.5%	75.3%	49.6%	78.0%

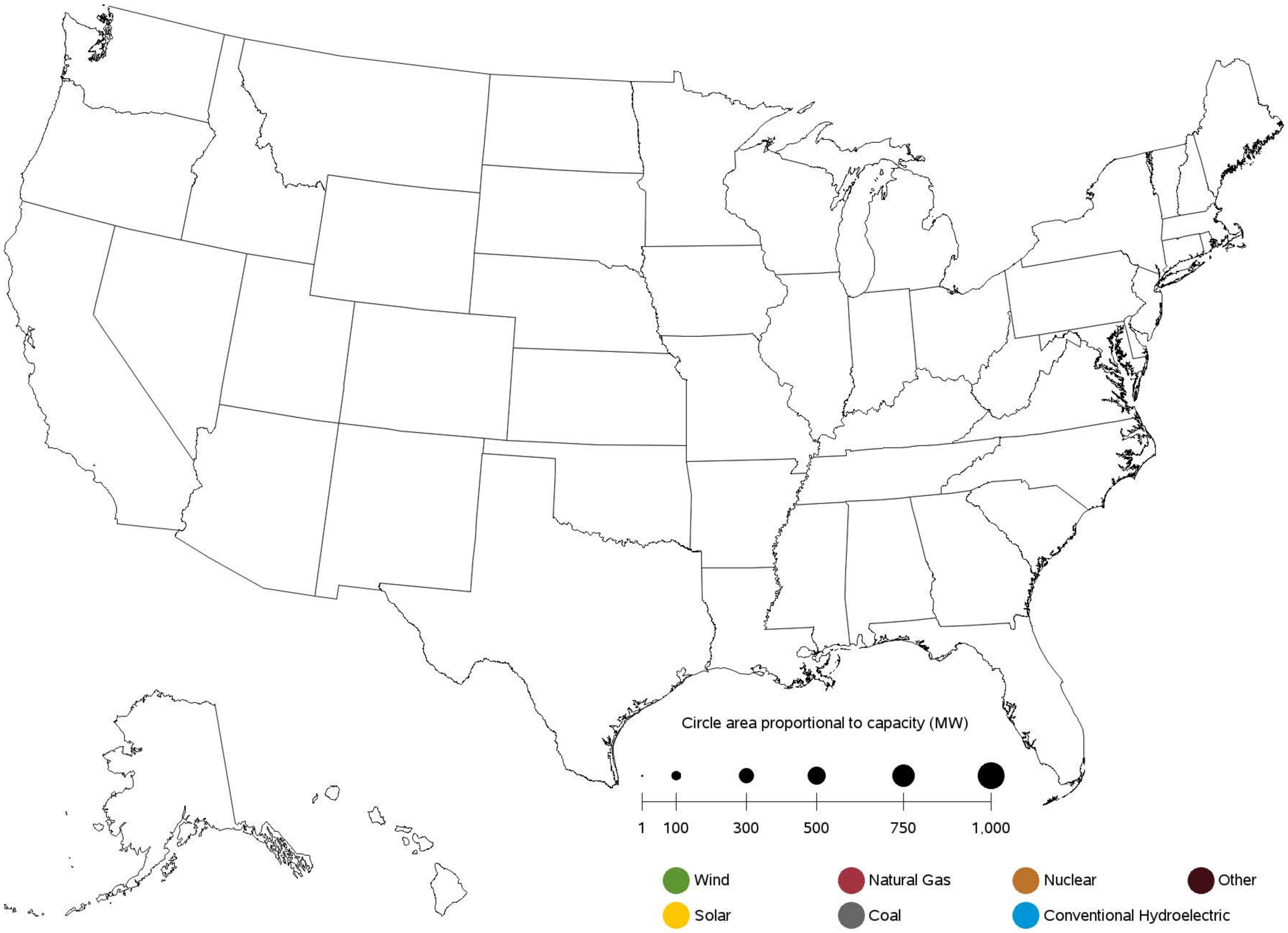
Values for 2017 and prior years are final. Values for 2018 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in August 2018



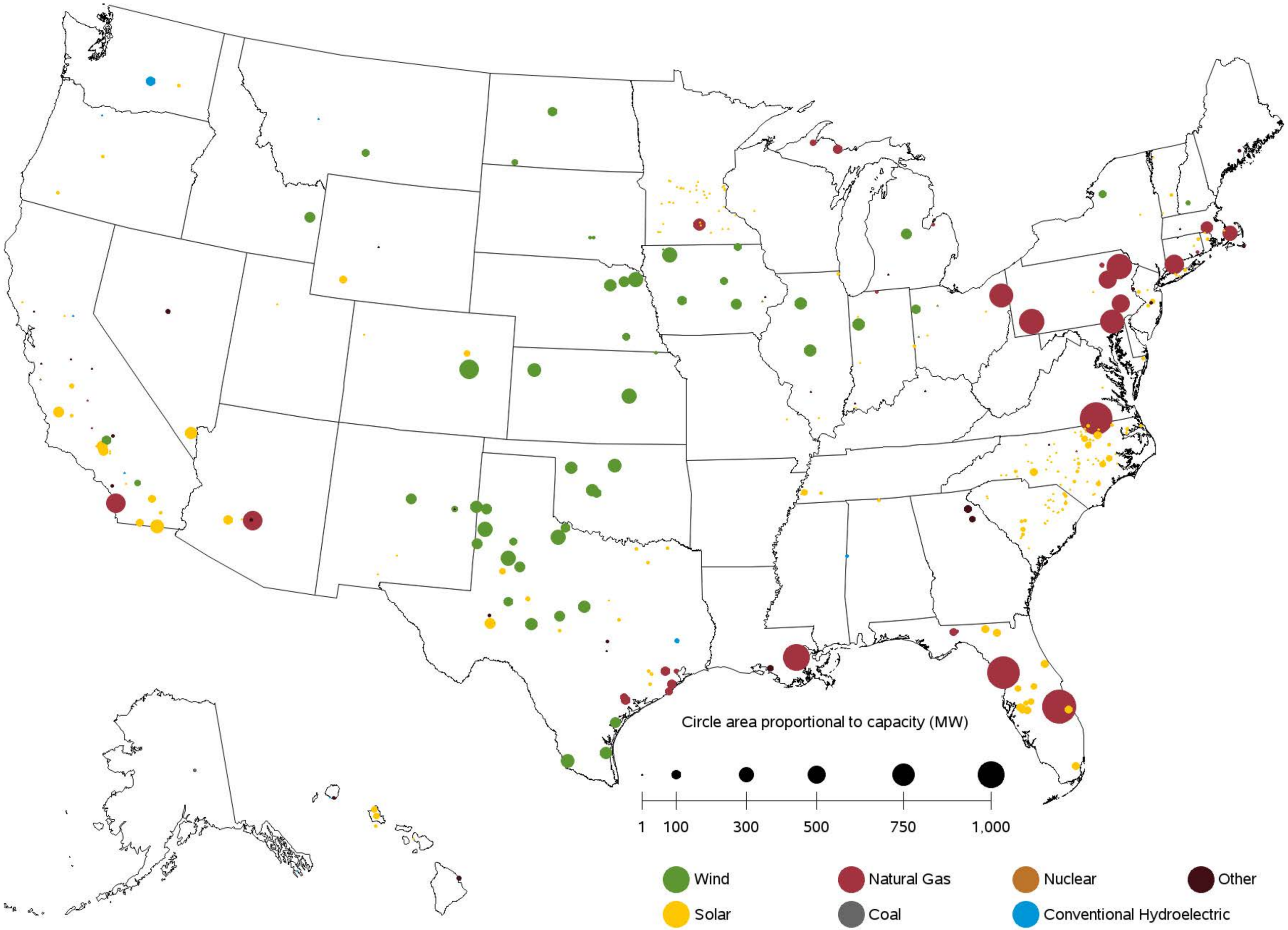
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



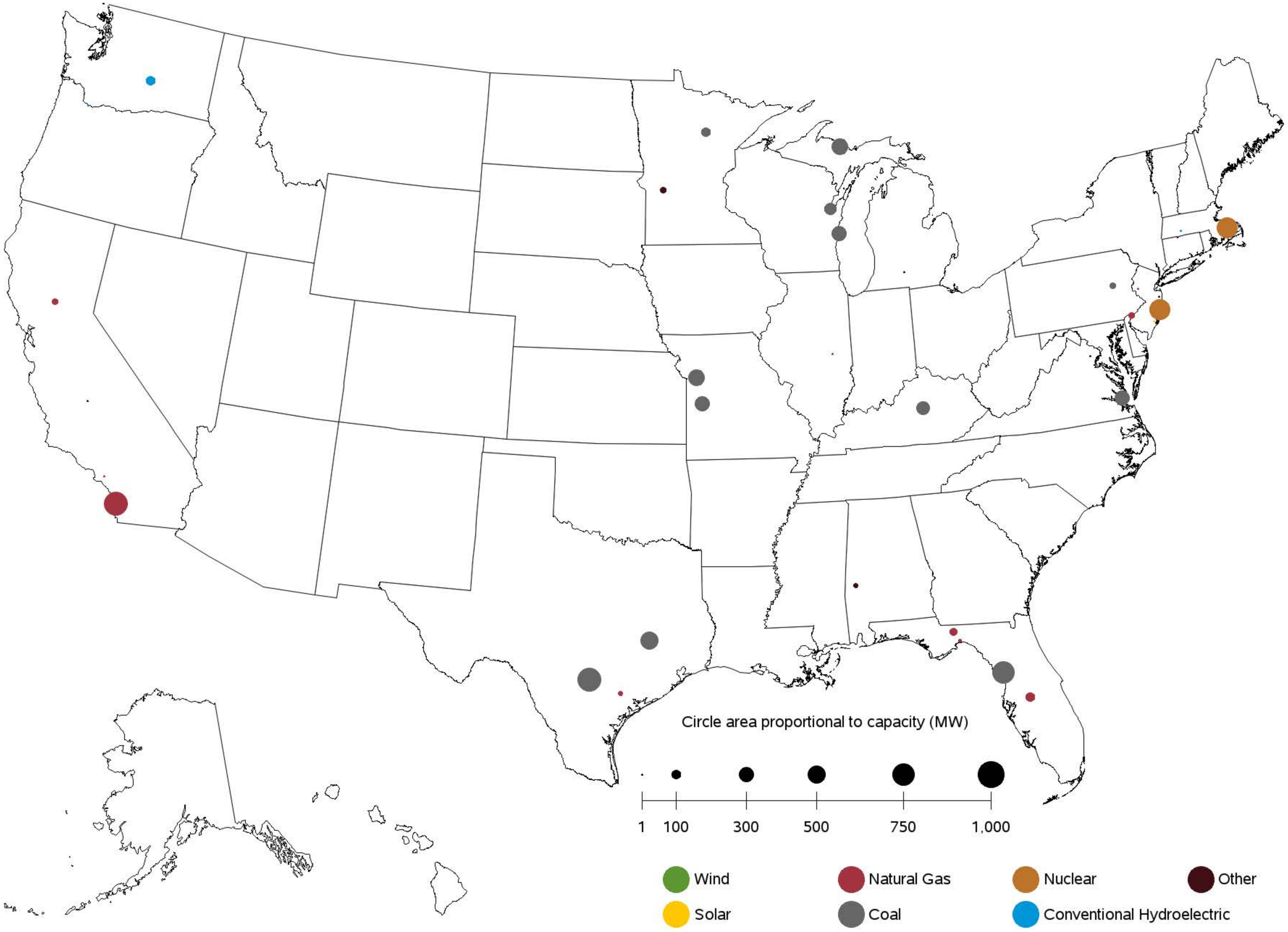
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from September 2018 to August 2019



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

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

	Canada		Mexico		U.S. Total		
Period	Imports from	Exports to	Imports from	Exports to	Imports	Exports	Net Imports
Annual Totals							
2016	65,173,818	2,682,381	7,542,445	3,531,636	72,716,263	6,214,017	66,502,246
2017	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
Year 2016							
January	5,886,417	227,589	636,613	161,007	6,523,030	388,596	6,134,434
February	4,927,541	384,301	505,252	167,788	5,432,793	552,089	4,880,704
March	5,210,412	410,645	598,334	260,086	5,808,746	670,731	5,138,015
April	4,092,342	358,746	610,099	91,608	4,702,441	450,354	4,252,087
May	4,977,621	142,398	583,132	227,227	5,560,753	369,625	5,191,128
June	6,162,812	94,538	585,652	515,952	6,748,464	610,490	6,137,974
July	6,969,110	78,459	704,978	496,360	7,674,088	574,819	7,099,269
August	6,577,610	149,565	771,285	437,154	7,348,895	586,719	6,762,176
Sept	4,631,320	161,183	666,113	425,652	5,297,433	586,835	4,710,598
October	4,989,801	320,694	761,195	111,790	5,750,996	432,484	5,318,512
November	5,809,773	109,219	611,189	307,814	6,420,962	417,033	6,003,929
December	4,939,059	245,044	508,603	329,198	5,447,662	574,242	4,873,420
Year 2017							
January	6,345,401	172,909	673,166	310,843	7,018,567	483,752	6,534,815
February	5,120,144	359,401	552,254	330,610	5,672,398	690,011	4,982,387
March	5,612,473	663,648	410,568	334,509	6,023,041	998,157	5,024,884
April	5,262,194	619,414	299,908	486,903	5,562,102	1,106,317	4,455,785
May	4,912,110	341,657	171,906	489,911	5,084,016	831,568	4,252,448
June	5,637,814	242,997	355,162	568,400	5,992,976	811,397	5,181,579
July	5,328,084	65,828	585,167	642,440	5,913,251	708,268	5,204,983
August	5,874,172	63,435	634,751	709,103	6,508,923	772,538	5,736,385
Sept	4,715,752	139,000	512,536	553,042	5,228,288	692,042	4,536,246
October	3,504,501	165,550	447,906	544,420	3,952,407	709,970	3,242,437
November	3,379,626	263,999	550,385	558,909	3,930,011	822,908	3,107,103
December	4,217,049	214,960	581,888	528,915	4,798,937	743,875	4,055,062
Year 2018							
January	4,738,934	680,100	485,831	459,404	5,224,765	1,139,504	4,085,261
February	4,314,276	926,822	473,386	340,682	4,787,662	1,267,504	3,520,158
March	5,045,055	707,032	553,462	488,339	5,598,517	1,195,371	4,403,146
April	4,067,648	1,134,937	461,095	486,681	4,528,743	1,621,618	2,907,125
May	4,865,120	569,954	374,033	571,444	5,239,153	1,141,398	4,097,755
June	5,002,142	534,488	491,763	680,851	5,493,905	1,215,339	4,278,566

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	6,473	9,023	3,544	0	19,040
2009	6,673	8,937	3,094	0	18,704
2010	6,975	9,041	2,968	0	18,984
2011	6,587	8,832	2,832	0	18,251
2012	6,771	8,879	2,500	0	18,150
2013	6,320	8,969	2,504	0	17,793
2014	6,218	8,761	2,376	0	17,356
2015	6,314	8,586	2,355	0	17,255
2016	6,524	8,569	2,251	0	17,344
2017	5,045	6,820	1,747	0	13,611
Year 2016					
January	515	648	158	0	1,321
February	447	647	176	0	1,270
March	499	738	208	0	1,445
April	506	665	176	0	1,346
May	556	746	202	0	1,504
June	594	742	201	0	1,537
July	621	773	193	0	1,587
August	604	722	205	0	1,530
Sept	594	751	187	0	1,532
October	540	704	180	0	1,424
November	541	723	190	0	1,454
December	509	709	176	0	1,394
Year 2017					
January	508	650	159	0	1,317
February	395	575	154	0	1,125
March	490	698	191	0	1,380
April	494	628	184	0	1,306
May	525	675	182	0	1,382
June	595	692	184	0	1,472
July	590	710	200	0	1,501
August	632	719	187	0	1,537
Sept	520	372	127	0	1,020
October	16	224	11	0	252
November	42	569	28	0	639
December	237	306	138	0	682
Year 2018					
January	389	558	142	0	1,089
February	393	760	175	0	1,328
March	450	531	98	0	1,080
April	466	784	273	0	1,524
May	566	802	165	0	1,533
June	507	592	208	0	1,308
July	578	680	145	0	1,404
August	577	688	209	0	1,475
Year to Date					
2016	4,341	5,681	1,518	0	11,540
2017	4,230	5,347	1,442	0	11,019
2018	3,927	5,396	1,417	0	10,739
Rolling 12 Months Ending in August					
2017	6,414	8,235	2,175	0	16,824
2018	4,742	6,868	1,722	0	13,331

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,574	2,285	734	0	4,593
2009	1,313	1,868	518	0	3,699
2010	1,521	2,103	564	0	4,188
2011	1,748	2,483	663	0	4,894
2012	1,690	2,605	647	0	4,942
2013	1,633	2,474	570	0	4,678
2014	1,636	2,394	551	0	4,581
2015	1,282	1,850	417	0	3,549
2016	1,170	1,677	356	0	3,203
2017	1,123	1,549	344	0	3,016
Year 2016					
January	86	120	23	0	229
February	75	118	25	0	218
March	79	131	29	0	239
April	86	124	26	0	235
May	91	139	29	0	259
June	103	141	30	0	274
July	110	150	30	0	291
August	118	154	36	0	308
Sept	111	146	31	0	288
October	108	155	33	0	296
November	102	147	32	0	282
December	101	152	31	0	284
Year 2017					
January	112	142	30	0	284
February	99	143	32	0	274
March	105	151	34	0	291
April	109	144	34	0	287
May	119	157	35	0	311
June	129	152	34	0	314
July	130	161	37	0	327
August	143	166	35	0	345
Sept	101	74	21	0	196
October	6	46	4	0	56
November	19	115	15	0	150
December	50	98	34	0	182
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	280
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
July	122	166	29	0	317
August	114	149	39	0	302
Year to Date					
2016	748	1,077	228	0	2,053
2017	947	1,216	270	0	2,433
2018	805	1,252	271	0	2,328
Rolling 12 Months Ending in August					
2017	1,369	1,816	398	0	3,583
2018	981	1,586	345	0	2,911

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,318,498	133,223	1,225	0	1,452,946
2009	1,330,507	132,620	828	0	1,463,955
2010	1,339,703	133,029	790	0	1,473,522
2011	1,341,708	132,738	750	0	1,475,196
2012	1,349,750	131,264	721	0	1,481,735
2013	1,340,989	131,034	694	0	1,472,717
2014	1,328,546	129,122	662	0	1,458,330
2015	1,326,631	127,365	647	0	1,454,643
2016	1,332,152	127,179	633	0	1,459,964
2017	1,337,756	127,065	618	0	1,465,439
Year 2016					
January	1,327,936	127,058	640	0	1,455,634
February	1,328,227	127,040	637	0	1,455,904
March	1,329,387	127,155	636	0	1,457,178
April	1,331,140	127,236	635	0	1,459,011
May	1,332,103	127,264	636	0	1,460,003
June	1,332,712	127,158	635	0	1,460,505
July	1,333,672	127,327	633	0	1,461,632
August	1,333,858	127,218	631	0	1,461,707
Sept	1,331,317	126,967	627	0	1,458,911
October	1,334,555	127,221	626	0	1,462,402
November	1,335,163	127,237	629	0	1,463,029
December	1,335,753	127,265	627	0	1,463,645
Year 2017					
January	1,336,481	127,251	627	0	1,464,359
February	1,337,101	127,229	626	0	1,464,956
March	1,335,413	127,147	620	0	1,463,180
April	1,337,164	127,086	620	0	1,464,870
May	1,337,956	127,048	618	0	1,465,622
June	1,339,373	127,119	616	0	1,467,108
July	1,338,891	127,049	614	0	1,466,554
August	1,337,758	127,026	615	0	1,465,399
Sept	1,338,973	127,056	615	0	1,466,644
October	1,337,261	126,948	615	0	1,464,824
November	1,338,117	126,941	613	0	1,465,671
December	1,338,583	126,877	612	0	1,466,072
Year 2018					
January	1,338,417	126,681	611	0	1,465,709
February	1,337,561	126,422	612	0	1,464,595
March	1,338,960	126,367	613	0	1,465,940
April	1,339,727	126,216	612	0	1,466,555
May	1,340,002	126,123	610	0	1,466,735
June	1,339,841	126,006	610	0	1,466,457
July	1,340,490	125,949	607	0	1,467,046
August	1,341,417	126,011	604	0	1,468,032
Rolling 12 Months Ending in August					
2017	1,336,410	127,137	622	0	1,464,170
2018	1,339,112	126,466	611	0	1,466,190

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	24.32	25.32	20.72	--	24.12
2009	19.68	20.91	16.73	--	19.78
2010	21.80	23.26	19.01	--	22.06
2011	26.54	28.11	23.39	--	26.82
2012	24.96	29.34	25.89	--	27.23
2013	25.84	27.59	22.77	--	26.29
2014	26.31	27.33	23.18	--	26.39
2015	20.31	21.55	17.71	--	20.57
2016	17.93	19.57	15.83	--	18.47
2017	22.26	22.72	19.70	--	22.16
Year 2016					
January	16.78	18.54	14.39	--	17.36
February	16.74	18.31	14.23	--	17.19
March	15.90	17.70	14.02	--	16.55
April	16.91	18.58	14.52	--	17.42
May	16.33	18.63	14.61	--	17.24
June	17.32	19.01	15.12	--	17.85
July	17.78	19.39	15.74	--	18.31
August	19.50	21.38	17.42	--	20.11
Sept	18.66	19.42	16.61	--	18.78
October	20.07	22.02	18.35	--	20.82
November	18.88	20.34	17.04	--	19.37
December	19.79	21.45	17.90	--	20.40
Year 2017					
January	22.10	21.89	18.77	--	21.60
February	25.09	24.84	20.48	--	24.33
March	21.46	21.69	17.76	--	21.06
April	22.16	22.89	18.43	--	21.99
May	22.66	23.27	19.03	--	22.48
June	21.69	21.91	18.18	--	21.35
July	22.01	22.62	18.43	--	21.82
August	22.62	23.17	18.91	--	22.42
Sept	19.36	19.90	16.35	--	19.18
October	37.23	20.39	40.29	--	22.36
November	45.99	20.27	53.04	--	23.39
December	21.07	31.94	24.72	--	26.70
Year 2018					
January	22.11	28.53	22.32	--	25.43
February	19.32	22.48	18.45	--	21.02
March	24.40	27.97	22.42	--	25.97
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
June	21.24	22.46	19.23	--	21.47
July	21.17	24.32	19.78	--	22.56
August	19.81	21.63	18.51	--	20.48
Year to Date					
2016	17.23	18.96	15.04	--	17.79
2017	22.39	22.75	18.70	--	22.08
2018	20.49	23.21	19.10	--	21.67
Rolling 12 Months Ending in August					
2017	21.35	22.06	18.28	--	21.30
2018	20.68	23.09	20.04	--	21.84

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

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

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,335	0	2,792	0	0	4,679
2008	454	98	1,335	0	3,104	0	0	4,991
2009	454	98	1,335	0	3,169	0	0	5,056
2010	454	98	1,335	0	3,169	0	0	5,056
2011	454	98	1,335	0	3,169	5	0	5,061
2012	454	98	1,335	0	3,169	23	98	5,177
2013	454	98	1,335	0	3,169	26	98	5,180
2014	454	98	1,335	0	3,169	38	99	5,192
2015	454	98	1,335	9	3,173	70	99	5,237
2016	454	98	1,335	33	3,173	145	99	5,336
2017	454	98	1,335	33	3,173	145	99	5,336
Year 2018								
January	454	0	558	33	728	145	99	2,017
February	454	0	558	33	728	145	99	2,017
March	454	0	558	33	728	145	99	2,017
April	454	0	558	33	728	145	99	2,017
May	454	0	558	33	728	145	99	2,017
June	454	0	558	33	728	145	99	2,017
July	454	0	558	33	728	145	99	2,017
August	454	0	569	33	728	145	99	2,028

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**5**	**16**	**0**	**1**	**0**	**0**	**9**
Connecticut	0	35	0	2	0	0	33
Maine	33	15	0	9	0	0	12
Massachusetts	0	23	0	2	0	0	20
New Hampshire	0	23	0	0	0	0	18
Rhode Island	0	82	0	6	0	0	0
Vermont	0	143	0	0	0	0	18
Middle Atlantic	**3**	**12**	**47**	**1**	**9**	**0**	**2**
New Jersey	0	70	0	2	0	0	0
New York	0	13	0	2	0	0	2
Pennsylvania	3	22	79	1	13	0	12
East North Central	**0**	**9**	**13**	**2**	**3**	**0**	**20**
Illinois	0	23	0	6	0	0	35
Indiana	0	4	0	2	5	0	36
Michigan	2	7	12	3	0	0	41
Ohio	0	24	19	2	9	0	42
Wisconsin	0	36	0	4	0	0	32
West North Central	**0**	**9**	**0**	**8**	**0**	**0**	**15**
Iowa	0	19	0	7	0	0	51
Kansas	1	10	0	45	0	0	0
Minnesota	2	37	0	8	0	0	46
Missouri	0	16	0	8	0	0	18
Nebraska	3	162	0	30	0	0	43
North Dakota	0	5	0	33	0	0	33
South Dakota	0	159	0	29	0	0	24
South Atlantic	**0**	**5**	**7**	**2**	**0**	**0**	**7**
Delaware	0	83	0	4	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	3	0	2	0	0	43
Georgia	0	21	69	7	0	0	14
Maryland	0	13	0	2	0	0	1
North Carolina	0	10	0	5	0	0	10
South Carolina	0	24	0	5	0	0	17
Virginia	2	16	0	5	0	0	16
West Virginia	1	0	0	11	0	0	16
East South Central	**0**	**10**	**0**	**2**	**62**	**0**	**5**
Alabama	0	19	0	4	271	0	7
Kentucky	0	4	0	3	0	0	7
Mississippi	0	7	0	4	0	0	0
Tennessee	0	19	0	2	0	0	7
West South Central	**0**	**16**	**1**	**2**	**4**	**0**	**8**
Arkansas	0	9	0	11	0	0	12
Louisiana	0	325	0	4	6	0	21
Oklahoma	0	2	0	5	0	0	14
Texas	0	12	51	3	3	0	19
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	2	0	1	0	0	6
Colorado	0	40	0	4	0	0	35
Idaho	144	0	0	12	0	0	17
Montana	4	16	0	24	0	0	16
Nevada	0	0	0	1	0	0	5
New Mexico	0	16	0	4	0	0	123
Utah	0	1	0	3	0	0	47
Wyoming	2	4	0	15	0	0	49
Pacific Contiguous	**9**	**39**	**0**	**1**	**2**	**0**	**2**
California	0	10	0	1	2	0	5
Oregon	46	218	0	3	0	0	8
Washington	0	70	0	4	0	0	2
Pacific Noncontiguous	**12**	**1**	**0**	**16**	**0**	**0**	**39**
Alaska	34	4	0	16	0	0	42
Hawaii	0	1	0	0	0	0	65
U.S. Total	**0**	**2**	**4**	**1**	**2**	**0**	**3**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**7**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	26	11	0	0	1
Maine	0	0	0	90	8	0	0	5
Massachusetts	0	0	0	7	6	0	1	2
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	45	9	0	0	6
Vermont	0	0	0	21	14	0	0	12
Middle Atlantic	**0**	**0**	**0**	**6**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	13	6	0	2	1
Pennsylvania	0	0	0	23	7	0	0	1
East North Central	**0**	**0**	**0**	**9**	**4**	**0**	**2**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	13	7	0	0	1
Michigan	0	0	0	19	7	0	7	1
Ohio	0	0	0	22	7	0	0	1
Wisconsin	0	0	0	44	9	0	27	1
West North Central	**0**	**0**	**0**	**7**	**4**	**0**	**4**	**1**
Iowa	0	0	0	73	6	0	0	2
Kansas	0	0	0	94	3	0	0	4
Minnesota	0	0	0	7	6	0	3	2
Missouri	0	0	0	25	7	0	0	1
Nebraska	0	0	0	48	9	0	0	3
North Dakota	0	0	0	0	7	0	27	2
South Dakota	0	0	0	173	15	0	0	10
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**1**
Delaware	0	0	0	31	30	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	2	2	0	1	1
Georgia	0	0	0	5	3	0	0	3
Maryland	0	0	0	9	9	0	0	1
North Carolina	0	0	0	3	2	0	0	2
South Carolina	0	0	0	11	4	0	0	1
Virginia	0	0	0	8	6	0	0	3
West Virginia	0	0	0	0	16	0	0	1
East South Central	**0**	**0**	**0**	**6**	**3**	**0**	**7**	**1**
Alabama	0	0	0	11	3	0	0	2
Kentucky	0	0	0	36	14	0	0	1
Mississippi	0	0	0	3	3	0	0	3
Tennessee	0	0	0	19	7	0	91	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**1**	**1**
Arkansas	0	0	0	6	4	0	0	3
Louisiana	0	0	0	165	4	0	1	3
Oklahoma	0	0	0	38	2	0	0	3
Texas	0	0	0	3	2	0	2	1
Mountain	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	8	3	0	0	1
Idaho	0	10	0	11	10	0	0	9
Montana	0	0	0	51	16	0	0	6
Nevada	0	3	0	3	2	0	0	1
New Mexico	0	0	0	7	4	0	0	2
Utah	0	5	0	6	4	0	7	1
Wyoming	0	0	0	0	12	0	0	2
Pacific Contiguous	**0**	**1**	**0**	**2**	**2**	**0**	**1**	**1**
California	0	1	0	2	2	0	2	1
Oregon	0	7	0	10	5	0	0	4
Washington	0	0	0	0	6	0	0	1
Pacific Noncontiguous	**0**	**6**	**0**	**15**	**9**	**0**	**0**	**5**
Alaska	0	0	0	0	42	0	0	12
Hawaii	0	6	0	15	8	0	0	2
U.S. Total	**0**	**1**	**0**	**2**	**1**	**0**	**0**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**5**	**16**	**0**	**1**	**0**	**0**	**9**
Connecticut	0	35	0	2	0	0	33
Maine	33	15	0	9	0	0	12
Massachusetts	0	23	0	2	0	0	20
New Hampshire	0	23	0	0	0	0	18
Rhode Island	0	82	0	6	0	0	0
Vermont	0	143	0	0	0	0	18
Middle Atlantic	**3**	**12**	**47**	**1**	**9**	**0**	**2**
New Jersey	0	70	0	2	0	0	0
New York	0	13	0	2	0	0	2
Pennsylvania	3	22	79	1	13	0	12
East North Central	**0**	**9**	**13**	**2**	**3**	**0**	**20**
Illinois	0	23	0	6	0	0	35
Indiana	0	4	0	2	5	0	36
Michigan	2	7	12	3	0	0	41
Ohio	0	24	19	2	9	0	42
Wisconsin	0	36	0	4	0	0	32
West North Central	**0**	**9**	**0**	**8**	**0**	**0**	**15**
Iowa	0	19	0	7	0	0	51
Kansas	1	10	0	45	0	0	0
Minnesota	2	37	0	8	0	0	46
Missouri	0	16	0	8	0	0	18
Nebraska	3	162	0	30	0	0	43
North Dakota	0	5	0	33	0	0	33
South Dakota	0	159	0	29	0	0	24
South Atlantic	**0**	**5**	**7**	**2**	**0**	**0**	**7**
Delaware	0	83	0	4	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	3	0	2	0	0	43
Georgia	0	21	69	7	0	0	14
Maryland	0	13	0	2	0	0	1
North Carolina	0	10	0	5	0	0	10
South Carolina	0	24	0	5	0	0	17
Virginia	2	16	0	5	0	0	16
West Virginia	1	0	0	11	0	0	16
East South Central	**0**	**10**	**0**	**2**	**62**	**0**	**5**
Alabama	0	19	0	4	271	0	7
Kentucky	0	4	0	3	0	0	7
Mississippi	0	7	0	4	0	0	0
Tennessee	0	19	0	2	0	0	7
West South Central	**0**	**16**	**1**	**2**	**4**	**0**	**8**
Arkansas	0	9	0	11	0	0	12
Louisiana	0	325	0	4	6	0	21
Oklahoma	0	2	0	5	0	0	14
Texas	0	12	51	3	3	0	19
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**8**
Arizona	0	2	0	1	0	0	6
Colorado	0	40	0	4	0	0	35
Idaho	144	0	0	12	0	0	17
Montana	4	16	0	24	0	0	16
Nevada	0	0	0	1	0	0	5
New Mexico	0	16	0	4	0	0	123
Utah	0	1	0	3	0	0	47
Wyoming	2	4	0	15	0	0	49
Pacific Contiguous	**9**	**39**	**0**	**1**	**2**	**0**	**2**
California	0	10	0	1	2	0	5
Oregon	46	218	0	3	0	0	8
Washington	0	70	0	4	0	0	2
Pacific Noncontiguous	**12**	**1**	**0**	**16**	**0**	**0**	**39**
Alaska	34	4	0	16	0	0	42
Hawaii	0	1	0	0	0	0	65
U.S. Total	**0**	**2**	**4**	**1**	**2**	**0**	**3**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**7**	**5**	**0**	**1**	**1**
Connecticut	0	0	0	26	11	0	0	1
Maine	0	0	0	90	8	0	0	5
Massachusetts	0	0	0	7	6	0	1	2
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	45	9	0	0	6
Vermont	0	0	0	21	14	0	0	12
Middle Atlantic	**0**	**0**	**0**	**6**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	13	6	0	2	1
Pennsylvania	0	0	0	23	7	0	0	1
East North Central	**0**	**0**	**0**	**9**	**4**	**0**	**2**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	13	7	0	0	1
Michigan	0	0	0	19	7	0	7	1
Ohio	0	0	0	22	7	0	0	1
Wisconsin	0	0	0	44	9	0	27	1
West North Central	**0**	**0**	**0**	**7**	**4**	**0**	**4**	**1**
Iowa	0	0	0	73	6	0	0	2
Kansas	0	0	0	94	3	0	0	4
Minnesota	0	0	0	7	6	0	3	2
Missouri	0	0	0	25	7	0	0	1
Nebraska	0	0	0	48	9	0	0	3
North Dakota	0	0	0	0	7	0	27	2
South Dakota	0	0	0	173	15	0	0	10
South Atlantic	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**1**
Delaware	0	0	0	31	30	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	2	2	0	1	1
Georgia	0	0	0	5	3	0	0	3
Maryland	0	0	0	9	9	0	0	1
North Carolina	0	0	0	3	2	0	0	2
South Carolina	0	0	0	11	4	0	0	1
Virginia	0	0	0	8	6	0	0	3
West Virginia	0	0	0	0	16	0	0	1
East South Central	**0**	**0**	**0**	**6**	**3**	**0**	**7**	**1**
Alabama	0	0	0	11	3	0	0	2
Kentucky	0	0	0	36	14	0	0	1
Mississippi	0	0	0	3	3	0	0	3
Tennessee	0	0	0	19	7	0	91	1
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**1**	**1**
Arkansas	0	0	0	6	4	0	0	3
Louisiana	0	0	0	165	4	0	1	3
Oklahoma	0	0	0	38	2	0	0	3
Texas	0	0	0	3	2	0	2	1
Mountain	**0**	**3**	**0**	**2**	**2**	**0**	**2**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	8	3	0	0	1
Idaho	0	10	0	11	10	0	0	9
Montana	0	0	0	51	16	0	0	6
Nevada	0	3	0	3	2	0	0	1
New Mexico	0	0	0	7	4	0	0	2
Utah	0	5	0	6	4	0	7	1
Wyoming	0	0	0	0	12	0	0	2
Pacific Contiguous	**0**	**1**	**0**	**2**	**2**	**0**	**1**	**1**
California	0	1	0	2	2	0	2	1
Oregon	0	7	0	10	5	0	0	4
Washington	0	0	0	0	6	0	0	1
Pacific Noncontiguous	**0**	**6**	**0**	**15**	**9**	**0**	**0**	**5**
Alaska	0	0	0	0	42	0	0	12
Hawaii	0	6	0	15	8	0	0	2
U.S. Total	**0**	**1**	**0**	**2**	**1**	**0**	**0**	**0**

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Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, August 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	1	0	.	1
Massachusetts	0	0	1	.	0
New Hampshire	0	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	1	4	55	.	2
Middle Atlantic	**0**	**0**	**1**	**.**	**0**
New Jersey	0	0	2	.	0
New York	0	0	1	.	0
Pennsylvania	0	2	0	.	1
East North Central	**1**	**2**	**0**	**.**	**1**
Illinois	3	7	0	.	4
Indiana	3	1	0	.	1
Michigan	2	12	3	.	4
Ohio	2	2	1	.	2
Wisconsin	4	7	0	.	3
West North Central	**2**	**1**	**3**	**.**	**1**
Iowa	4	3	21	.	2
Kansas	8	5	0	.	5
Minnesota	4	6	2	.	3
Missouri	2	1	0	.	1
Nebraska	11	24	21	.	10
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**1**	**1**	**.**	**0**
Delaware	2	2	11	.	2
District of Columbia	0	0	0	.	0
Florida	2	4	2	.	2
Georgia	61	62	0	.	44
Maryland	0	1	2	.	0
North Carolina	5	1	0	.	3
South Carolina	2	2	0	.	1
Virginia	5	5	4	.	4
West Virginia	0	0	0	.	0
East South Central	**2**	**4**	**0**	**.**	**2**
Alabama	0	0	0	.	0
Kentucky	3	4	0	.	2
Mississippi	3	9	0	.	4
Tennessee	0	0	0	.	0
West South Central	**1**	**4**	**0**	**.**	**1**
Arkansas	8	12	0	.	6
Louisiana	1	5	0	.	1
Oklahoma	7	9	0	.	5
Texas	2	5	0	.	2
Mountain	**0**	**1**	**3**	**.**	**0**
Arizona	0	1	8	.	0
Colorado	1	2	49	.	1
Idaho	2	8	0	.	2
Montana	5	13	0	.	5
Nevada	0	0	0	.	0
New Mexico	2	4	0	.	2
Utah	1	4	0	.	1
Wyoming	12	40	0	.	13
Pacific Contiguous	**0**	**1**	**0**	**.**	**0**
California	0	1	0	.	0
Oregon	1	6	4	.	2
Washington	1	23	34	.	3
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	7	6	0	.	5
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**33**	**0**	**0**	**20**
Connecticut	0	48	0	0	0	0	43
Maine	0	0	0	0	0	0	0
Massachusetts	0	99	0	46	0	0	41
New Hampshire	0	18	0	0	0	0	35
Rhode Island	0	0	0	0	0	0	0
Vermont	0	143	0	0	0	0	31
Middle Atlantic	**0**	**50**	**0**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	50	0	0	0
New York	0	50	0	3	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**7**	**0**	**3**	**0**	**0**	**22**
Illinois	0	107	0	16	0	0	42
Indiana	0	5	0	6	0	0	36
Michigan	2	6	0	6	0	0	43
Ohio	4	100	0	5	0	0	38
Wisconsin	0	29	0	4	0	0	34
West North Central	**0**	**9**	**0**	**9**	**0**	**0**	**15**
Iowa	0	19	0	7	0	0	52
Kansas	1	10	0	45	0	0	0
Minnesota	2	40	0	9	0	0	56
Missouri	0	16	0	11	0	0	18
Nebraska	3	162	0	30	0	0	43
North Dakota	0	5	0	34	0	0	33
South Dakota	0	169	0	29	0	0	24
South Atlantic	**0**	**6**	**0**	**2**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	2	0	0	43
Georgia	0	22	0	7	0	0	14
Maryland	0	5	0	0	0	0	0
North Carolina	0	9	0	5	0	0	10
South Carolina	0	28	0	6	0	0	16
Virginia	2	34	0	7	0	0	16
West Virginia	0	0	0	0	0	0	24
East South Central	**0**	**10**	**0**	**3**	**0**	**0**	**5**
Alabama	0	5	0	12	0	0	7
Kentucky	0	4	0	3	0	0	7
Mississippi	0	7	0	4	0	0	0
Tennessee	0	19	0	2	0	0	7
West South Central	**0**	**22**	**0**	**5**	**0**	**0**	**9**
Arkansas	0	28	0	11	0	0	12
Louisiana	0	325	0	7	0	0	0
Oklahoma	0	2	0	9	0	0	14
Texas	0	12	0	9	0	0	20
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**8**
Arizona	0	2	0	2	0	0	6
Colorado	0	40	0	3	0	0	37
Idaho	0	0	0	13	0	0	18
Montana	0	574	0	34	0	0	17
Nevada	0	0	0	1	0	0	0
New Mexico	0	16	0	5	0	0	123
Utah	0	1	0	3	0	0	47
Wyoming	2	4	0	35	0	0	51
Pacific Contiguous	**46**	**48**	**0**	**2**	**0**	**0**	**2**
California	0	11	0	3	0	0	5
Oregon	46	218	0	6	0	0	8
Washington	0	135	0	5	0	0	2
Pacific Noncontiguous	**52**	**1**	**0**	**16**	**0**	**0**	**44**
Alaska	52	4	0	16	0	0	44
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**2**	**0**	**0**	**2**

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

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

Electric Utilities by Census Division and State, August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**27**	**11**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	45	61	0	0	30
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	35	14	0	0	16
Middle Atlantic	**0**	**0**	**0**	**24**	**24**	**0**	**0**	**1**
New Jersey	0	0	0	24	24	0	0	14
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**15**	**10**	**0**	**3**	**1**
Illinois	0	0	0	43	45	0	0	6
Indiana	0	0	0	23	20	0	0	1
Michigan	0	0	0	21	15	0	0	1
Ohio	0	0	0	67	68	0	0	3
Wisconsin	0	0	0	0	17	0	28	2
West North Central	**0**	**0**	**0**	**51**	**5**	**0**	**4**	**1**
Iowa	0	0	0	79	6	0	0	2
Kansas	0	0	0	212	8	0	0	6
Minnesota	0	0	0	114	12	0	0	2
Missouri	0	0	0	0	61	0	0	1
Nebraska	0	0	0	0	35	0	0	3
North Dakota	0	0	0	0	12	0	27	2
South Dakota	0	0	0	0	27	0	0	11
South Atlantic	**0**	**0**	**0**	**3**	**5**	**0**	**0**	**1**
Delaware	0	0	0	87	87	0	0	9
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	10	10	0	0	3
Maryland	0	0	0	74	74	0	0	0
North Carolina	0	0	0	10	10	0	0	2
South Carolina	0	0	0	0	13	0	0	2
Virginia	0	0	0	20	16	0	0	3
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**30**	**29**	**0**	**0**	**1**
Alabama	0	0	0	50	50	0	0	2
Kentucky	0	0	0	36	34	0	0	1
Mississippi	0	0	0	0	0	0	0	4
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**35**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	174	174	0	0	3
Louisiana	0	0	0	165	165	0	0	4
Oklahoma	0	0	0	38	8	0	0	5
Texas	0	0	0	122	34	0	0	4
Mountain	**0**	**6**	**0**	**8**	**8**	**0**	**16**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	127	28	0	0	1
Idaho	0	0	0	0	52	0	0	13
Montana	0	0	0	0	51	0	0	15
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	17	17	0	0	2
Utah	0	6	0	0	6	0	27	1
Wyoming	0	0	0	0	17	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	90	6	0	0	6
Washington	0	0	0	0	8	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**31**	**0**	**0**	**7**
Alaska	0	0	0	0	68	0	0	13
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**2**	**0**	**3**	**3**	**0**	**2**	**1**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**34**	**0**	**33**	**0**	**0**	**20**
Connecticut	0	48	0	0	0	0	43
Maine	0	0	0	0	0	0	0
Massachusetts	0	99	0	46	0	0	41
New Hampshire	0	18	0	0	0	0	35
Rhode Island	0	0	0	0	0	0	0
Vermont	0	143	0	0	0	0	31
Middle Atlantic	**0**	**50**	**0**	**3**	**0**	**0**	**1**
New Jersey	0	0	0	50	0	0	0
New York	0	50	0	3	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**7**	**0**	**3**	**0**	**0**	**22**
Illinois	0	107	0	16	0	0	42
Indiana	0	5	0	6	0	0	36
Michigan	2	6	0	6	0	0	43
Ohio	4	100	0	5	0	0	38
Wisconsin	0	29	0	4	0	0	34
West North Central	**0**	**9**	**0**	**9**	**0**	**0**	**15**
Iowa	0	19	0	7	0	0	52
Kansas	1	10	0	45	0	0	0
Minnesota	2	40	0	9	0	0	56
Missouri	0	16	0	11	0	0	18
Nebraska	3	162	0	30	0	0	43
North Dakota	0	5	0	34	0	0	33
South Dakota	0	169	0	29	0	0	24
South Atlantic	**0**	**6**	**0**	**2**	**0**	**0**	**8**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	2	0	0	43
Georgia	0	22	0	7	0	0	14
Maryland	0	5	0	0	0	0	0
North Carolina	0	9	0	5	0	0	10
South Carolina	0	28	0	6	0	0	16
Virginia	2	34	0	7	0	0	16
West Virginia	0	0	0	0	0	0	24
East South Central	**0**	**10**	**0**	**3**	**0**	**0**	**5**
Alabama	0	5	0	12	0	0	7
Kentucky	0	4	0	3	0	0	7
Mississippi	0	7	0	4	0	0	0
Tennessee	0	19	0	2	0	0	7
West South Central	**0**	**22**	**0**	**5**	**0**	**0**	**9**
Arkansas	0	28	0	11	0	0	12
Louisiana	0	325	0	7	0	0	0
Oklahoma	0	2	0	9	0	0	14
Texas	0	12	0	9	0	0	20
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**8**
Arizona	0	2	0	2	0	0	6
Colorado	0	40	0	3	0	0	37
Idaho	0	0	0	13	0	0	18
Montana	0	574	0	34	0	0	17
Nevada	0	0	0	1	0	0	0
New Mexico	0	16	0	5	0	0	123
Utah	0	1	0	3	0	0	47
Wyoming	2	4	0	35	0	0	51
Pacific Contiguous	**46**	**48**	**0**	**2**	**0**	**0**	**2**
California	0	11	0	3	0	0	5
Oregon	46	218	0	6	0	0	8
Washington	0	135	0	5	0	0	2
Pacific Noncontiguous	**52**	**1**	**0**	**16**	**0**	**0**	**44**
Alaska	52	4	0	16	0	0	44
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**2**	**0**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**27**	**11**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	45	61	0	0	30
New Hampshire	0	0	0	0	0	0	0	11
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	35	14	0	0	16
Middle Atlantic	**0**	**0**	**0**	**24**	**24**	**0**	**0**	**1**
New Jersey	0	0	0	24	24	0	0	14
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**15**	**10**	**0**	**3**	**1**
Illinois	0	0	0	43	45	0	0	6
Indiana	0	0	0	23	20	0	0	1
Michigan	0	0	0	21	15	0	0	1
Ohio	0	0	0	67	68	0	0	3
Wisconsin	0	0	0	0	17	0	28	2
West North Central	**0**	**0**	**0**	**51**	**5**	**0**	**4**	**1**
Iowa	0	0	0	79	6	0	0	2
Kansas	0	0	0	212	8	0	0	6
Minnesota	0	0	0	114	12	0	0	2
Missouri	0	0	0	0	61	0	0	1
Nebraska	0	0	0	0	35	0	0	3
North Dakota	0	0	0	0	12	0	27	2
South Dakota	0	0	0	0	27	0	0	11
South Atlantic	**0**	**0**	**0**	**3**	**5**	**0**	**0**	**1**
Delaware	0	0	0	87	87	0	0	9
Florida	0	0	0	2	2	0	0	1
Georgia	0	0	0	10	10	0	0	3
Maryland	0	0	0	74	74	0	0	0
North Carolina	0	0	0	10	10	0	0	2
South Carolina	0	0	0	0	13	0	0	2
Virginia	0	0	0	20	16	0	0	3
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**30**	**29**	**0**	**0**	**1**
Alabama	0	0	0	50	50	0	0	2
Kentucky	0	0	0	36	34	0	0	1
Mississippi	0	0	0	0	0	0	0	4
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**35**	**9**	**0**	**0**	**2**
Arkansas	0	0	0	174	174	0	0	3
Louisiana	0	0	0	165	165	0	0	4
Oklahoma	0	0	0	38	8	0	0	5
Texas	0	0	0	122	34	0	0	4
Mountain	**0**	**6**	**0**	**8**	**8**	**0**	**16**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	127	28	0	0	1
Idaho	0	0	0	0	52	0	0	13
Montana	0	0	0	0	51	0	0	15
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	17	17	0	0	2
Utah	0	6	0	0	6	0	27	1
Wyoming	0	0	0	0	17	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**11**	**4**	**0**	**0**	**1**
California	0	0	0	11	4	0	0	2
Oregon	0	0	0	90	6	0	0	6
Washington	0	0	0	0	8	0	0	2
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**31**	**0**	**0**	**7**
Alaska	0	0	0	0	68	0	0	13
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**2**	**0**	**3**	**3**	**0**	**2**	**1**

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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, August 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**18**	**0**	**1**	**0**	**0**	**9**
Connecticut	0	36	0	2	0	0	36
Maine	0	7	0	10	0	0	12
Massachusetts	0	17	0	2	0	0	23
New Hampshire	0	1,337	0	0	0	0	21
Rhode Island	0	83	0	7	0	0	0
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**3**	**10**	**0**	**1**	**0**	**0**	**9**
New Jersey	0	73	0	2	0	0	0
New York	0	9	0	2	0	0	9
Pennsylvania	3	23	0	1	0	0	12
East North Central	**0**	**18**	**20**	**2**	**3**	**0**	**56**
Illinois	0	22	0	6	0	0	55
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	161
Ohio	0	24	20	2	11	0	81
Wisconsin	0	0	0	0	0	0	148
West North Central	**0**	**129**	**0**	**10**	**0**	**0**	**98**
Iowa	0	65	0	1,620	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	289	0	21	0	0	118
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**14**	**0**	**5**	**0**	**0**	**4**
Delaware	0	83	0	5	0	0	0
Florida	0	59	0	13	0	0	0
Georgia	0	941	0	17	0	0	211
Maryland	0	15	0	3	0	0	1
North Carolina	0	164	0	18	0	0	74
South Carolina	0	0	0	1	0	0	76
Virginia	0	13	0	5	0	0	53
West Virginia	6	0	0	16	0	0	32
East South Central	**0**	**135**	**0**	**1**	**0**	**0**	**198**
Alabama	0	189	0	1	0	0	0
Kentucky	0	0	0	0	0	0	198
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**9**	**0**	**2**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	54
Louisiana	0	0	0	26	0	0	21
Oklahoma	0	0	0	0	0	0	0
Texas	0	93	0	2	0	0	0
Mountain	**4**	**14**	**0**	**2**	**0**	**0**	**42**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	14	0	0	106
Idaho	0	0	0	22	0	0	54
Montana	4	16	0	7	0	0	135
Nevada	0	0	0	0	0	0	113
New Mexico	0	0	0	7	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**10**	**0**	**2**	**0**	**0**	**28**
California	0	0	0	2	0	0	31
Oregon	0	0	0	1	0	0	95
Washington	0	12	0	6	0	0	83
Pacific Noncontiguous	**6**	**7**	**0**	**0**	**0**	**0**	**0**
Alaska	49	0	0	0	0	0	0
Hawaii	0	7	0	0	0	0	0
U.S. Total	**1**	**6**	**13**	**1**	**2**	**0**	**6**

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**7**	**6**	**0**	**1**	**1**
Connecticut	0	0	0	27	11	0	0	1
Maine	0	0	0	90	10	0	0	6
Massachusetts	0	0	0	7	6	0	1	2
New Hampshire	0	0	0	0	18	0	0	2
Rhode Island	0	0	0	45	9	0	0	6
Vermont	0	0	0	26	24	0	0	17
Middle Atlantic	**0**	**0**	**0**	**7**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	8	6	0	0	1
New York	0	0	0	13	6	0	0	1
Pennsylvania	0	0	0	27	8	0	0	1
East North Central	**0**	**0**	**0**	**11**	**4**	**0**	**13**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	16	8	0	0	1
Michigan	0	0	0	35	9	0	18	1
Ohio	0	0	0	24	8	0	0	1
Wisconsin	0	0	0	45	13	0	0	1
West North Central	**0**	**0**	**0**	**7**	**3**	**0**	**0**	**3**
Iowa	0	0	0	186	9	0	0	5
Kansas	0	0	0	103	3	0	0	3
Minnesota	0	0	0	7	7	0	0	7
Missouri	0	0	0	26	8	0	0	4
Nebraska	0	0	0	48	9	0	0	9
North Dakota	0	0	0	0	8	0	0	8
South Dakota	0	0	0	173	18	0	0	18
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**3**
Delaware	0	0	0	33	35	0	0	5
Florida	0	0	0	10	5	0	1	9
Georgia	0	0	0	5	5	0	0	15
Maryland	0	0	0	9	9	0	0	1
North Carolina	0	0	0	3	3	0	0	9
South Carolina	0	0	0	11	12	0	0	2
Virginia	0	0	0	9	8	0	0	4
West Virginia	0	0	0	0	16	0	0	6
East South Central	**0**	**0**	**0**	**6**	**7**	**0**	**0**	**1**
Alabama	0	0	0	10	10	0	0	1
Kentucky	0	0	0	202	88	0	0	3
Mississippi	0	0	0	3	6	0	0	0
Tennessee	0	0	0	20	23	0	0	22
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	13	0	0	1
Louisiana	0	0	0	0	55	0	0	12
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	2	0	0	1
Mountain	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	8	3	0	0	5
Idaho	0	10	0	11	10	0	0	12
Montana	0	0	0	51	17	0	0	4
Nevada	0	3	0	3	2	0	0	2
New Mexico	0	0	0	8	4	0	0	4
Utah	0	7	0	6	5	0	0	4
Wyoming	0	0	0	0	15	0	0	10
Pacific Contiguous	**0**	**1**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	1	0	2	2	0	0	1
Oregon	0	7	0	10	6	0	0	3
Washington	0	0	0	0	12	0	0	3
Pacific Noncontiguous	**0**	**6**	**0**	**18**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	96	0	0	45
Hawaii	0	6	0	18	11	0	0	4
U.S. Total	**0**	**1**	**0**	**2**	**1**	**0**	**0**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**18**	**0**	**1**	**0**	**0**	**9**
Connecticut	0	36	0	2	0	0	36
Maine	0	7	0	10	0	0	12
Massachusetts	0	17	0	2	0	0	23
New Hampshire	0	1,337	0	0	0	0	21
Rhode Island	0	83	0	7	0	0	0
Vermont	0	0	0	0	0	0	22
Middle Atlantic	**3**	**10**	**0**	**1**	**0**	**0**	**9**
New Jersey	0	73	0	2	0	0	0
New York	0	9	0	2	0	0	9
Pennsylvania	3	23	0	1	0	0	12
East North Central	**0**	**18**	**20**	**2**	**3**	**0**	**56**
Illinois	0	22	0	6	0	0	55
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	161
Ohio	0	24	20	2	11	0	81
Wisconsin	0	0	0	0	0	0	148
West North Central	**0**	**129**	**0**	**10**	**0**	**0**	**98**
Iowa	0	65	0	1,620	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	289	0	21	0	0	118
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**4**	**14**	**0**	**5**	**0**	**0**	**4**
Delaware	0	83	0	5	0	0	0
Florida	0	59	0	13	0	0	0
Georgia	0	941	0	17	0	0	211
Maryland	0	15	0	3	0	0	1
North Carolina	0	164	0	18	0	0	74
South Carolina	0	0	0	1	0	0	76
Virginia	0	13	0	5	0	0	53
West Virginia	6	0	0	16	0	0	32
East South Central	**0**	**135**	**0**	**1**	**0**	**0**	**198**
Alabama	0	189	0	1	0	0	0
Kentucky	0	0	0	0	0	0	198
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**9**	**0**	**2**	**0**	**0**	**19**
Arkansas	0	0	0	0	0	0	54
Louisiana	0	0	0	26	0	0	21
Oklahoma	0	0	0	0	0	0	0
Texas	0	93	0	2	0	0	0
Mountain	**4**	**14**	**0**	**2**	**0**	**0**	**42**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	14	0	0	106
Idaho	0	0	0	22	0	0	54
Montana	4	16	0	7	0	0	135
Nevada	0	0	0	0	0	0	113
New Mexico	0	0	0	7	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**10**	**0**	**2**	**0**	**0**	**28**
California	0	0	0	2	0	0	31
Oregon	0	0	0	1	0	0	95
Washington	0	12	0	6	0	0	83
Pacific Noncontiguous	**6**	**7**	**0**	**0**	**0**	**0**	**0**
Alaska	49	0	0	0	0	0	0
Hawaii	0	7	0	0	0	0	0
U.S. Total	**1**	**6**	**13**	**1**	**2**	**0**	**6**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**7**	**6**	**0**	**1**	**1**
Connecticut	0	0	0	27	11	0	0	1
Maine	0	0	0	90	10	0	0	6
Massachusetts	0	0	0	7	6	0	1	2
New Hampshire	0	0	0	0	18	0	0	2
Rhode Island	0	0	0	45	9	0	0	6
Vermont	0	0	0	26	24	0	0	17
Middle Atlantic	**0**	**0**	**0**	**7**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	8	6	0	0	1
New York	0	0	0	13	6	0	0	1
Pennsylvania	0	0	0	27	8	0	0	1
East North Central	**0**	**0**	**0**	**11**	**4**	**0**	**13**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	16	8	0	0	1
Michigan	0	0	0	35	9	0	18	1
Ohio	0	0	0	24	8	0	0	1
Wisconsin	0	0	0	45	13	0	0	1
West North Central	**0**	**0**	**0**	**7**	**3**	**0**	**0**	**3**
Iowa	0	0	0	186	9	0	0	5
Kansas	0	0	0	103	3	0	0	3
Minnesota	0	0	0	7	7	0	0	7
Missouri	0	0	0	26	8	0	0	4
Nebraska	0	0	0	48	9	0	0	9
North Dakota	0	0	0	0	8	0	0	8
South Dakota	0	0	0	173	18	0	0	18
South Atlantic	**0**	**0**	**0**	**3**	**2**	**0**	**1**	**3**
Delaware	0	0	0	33	35	0	0	5
Florida	0	0	0	10	5	0	1	9
Georgia	0	0	0	5	5	0	0	15
Maryland	0	0	0	9	9	0	0	1
North Carolina	0	0	0	3	3	0	0	9
South Carolina	0	0	0	11	12	0	0	2
Virginia	0	0	0	9	8	0	0	4
West Virginia	0	0	0	0	16	0	0	6
East South Central	**0**	**0**	**0**	**6**	**7**	**0**	**0**	**1**
Alabama	0	0	0	10	10	0	0	1
Kentucky	0	0	0	202	88	0	0	3
Mississippi	0	0	0	3	6	0	0	0
Tennessee	0	0	0	20	23	0	0	22
West South Central	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	13	0	0	1
Louisiana	0	0	0	0	55	0	0	12
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	3	2	0	0	1
Mountain	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**1**
Arizona	0	0	0	3	3	0	0	1
Colorado	0	0	0	8	3	0	0	5
Idaho	0	10	0	11	10	0	0	12
Montana	0	0	0	51	17	0	0	4
Nevada	0	3	0	3	2	0	0	2
New Mexico	0	0	0	8	4	0	0	4
Utah	0	7	0	6	5	0	0	4
Wyoming	0	0	0	0	15	0	0	10
Pacific Contiguous	**0**	**1**	**0**	**2**	**2**	**0**	**0**	**1**
California	0	1	0	2	2	0	0	1
Oregon	0	7	0	10	6	0	0	3
Washington	0	0	0	0	12	0	0	3
Pacific Noncontiguous	**0**	**6**	**0**	**18**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	96	0	0	45
Hawaii	0	6	0	18	11	0	0	4
U.S. Total	**0**	**1**	**0**	**2**	**1**	**0**	**0**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, August 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**70**	**0**	**12**	**0**	**0**	**0**
Connecticut	0	905	0	17	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	113	0	19	0	0	0
New Hampshire	0	5	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**89**	**0**	**11**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	134	0	15	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**64**	**2**	**0**	**6**	**0**	**0**	**0**
Illinois	133	0	0	17	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	3	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	10	0	0	0
West North Central	**0**	**21**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	23	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	8,133	0	0	0	0	0
South Atlantic	**0**	**7**	**0**	**5**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	18	0	0	0	0	0
Maryland	0	578	0	3	0	0	0
North Carolina	0	562	0	47	0	0	0
South Carolina	0	140	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**22**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	22	0	0	0
West South Central	**0**	**0**	**0**	**13**	**0**	**0**	**455**
Arkansas	0	0	0	87	0	0	0
Louisiana	0	0	0	21	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	15	0	0	455
Mountain	**0**	**0**	**0**	**12**	**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	39	0	0	0
Utah	0	0	0	10	0	0	0
Pacific Contiguous	**0**	**102**	**0**	**3**	**0**	**0**	**491**
California	0	86	0	3	0	0	491
Oregon	0	1,296	0	34	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**62**	**13**	**0**	**0**	**0**	**0**	**122**
Alaska	62	36	0	0	0	0	122
Hawaii	0	0	0	0	0	0	0
U.S. Total	**29**	**17**	**0**	**3**	**0**	**0**	**89**

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

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

Commercial Sector by Census Division and State, August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**58**	**6**	**0**	**0**	**10**
Connecticut	0	0	0	191	191	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	58	19	0	0	17
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**	**17**	**5**	**0**	**3**	**6**
New Jersey	0	0	0	17	10	0	0	7
New York	0	0	0	88	5	0	7	10
Pennsylvania	0	0	0	65	7	0	0	3
East North Central	**0**	**0**	**0**	**88**	**7**	**0**	**0**	**6**
Illinois	0	0	0	150	157	0	0	19
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	123	45	0	0	2
Wisconsin	0	0	0	194	27	0	0	10
West North Central	**0**	**0**	**0**	**0**	**14**	**0**	**40**	**5**
Iowa	0	0	0	0	16	0	0	3
Kansas	0	0	0	0	129	0	0	129
Minnesota	0	0	0	0	32	0	40	13
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	8,133
South Atlantic	**0**	**0**	**0**	**21**	**8**	**0**	**0**	**3**
Delaware	0	0	0	151	82	0	0	82
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	100	21	0	0	16
Georgia	0	0	0	116	116	0	0	68
Maryland	0	0	0	84	39	0	0	3
North Carolina	0	0	0	22	21	0	0	18
South Carolina	0	0	0	0	0	0	0	50
Virginia	0	0	0	0	3	0	0	1
East South Central	**0**	**0**	**0**	**97**	**97**	**0**	**0**	**21**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	97	97	0	0	21
West South Central	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	0	83
Louisiana	0	0	0	0	0	0	0	21
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	22	0	0	14
Mountain	**0**	**0**	**0**	**24**	**20**	**0**	**0**	**10**
Arizona	0	0	0	57	57	0	0	11
Colorado	0	0	0	56	60	0	0	32
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	29	29	0	0	17
New Mexico	0	0	0	0	288	0	0	39
Utah	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**20**	**6**	**0**	**0**	**3**
California	0	0	0	20	6	0	0	3
Oregon	0	0	0	0	24	0	0	24
Washington	0	0	0	0	58	0	0	19
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Alaska	0	0	0	0	0	0	0	59
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**3**	**0**	**2**	**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.4.B. Relative Standard Error for Net Generation by Fuel Type:

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**70**	**0**	**12**	**0**	**0**	**0**
Connecticut	0	905	0	17	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	113	0	19	0	0	0
New Hampshire	0	5	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**89**	**0**	**11**	**0**	**0**	**0**
New Jersey	0	0	0	17	0	0	0
New York	0	134	0	15	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**64**	**2**	**0**	**6**	**0**	**0**	**0**
Illinois	133	0	0	17	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	3	0	8	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	10	0	0	0
West North Central	**0**	**21**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	23	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	8,133	0	0	0	0	0
South Atlantic	**0**	**7**	**0**	**5**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	18	0	0	0	0	0
Maryland	0	578	0	3	0	0	0
North Carolina	0	562	0	47	0	0	0
South Carolina	0	140	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**22**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	22	0	0	0
West South Central	**0**	**0**	**0**	**13**	**0**	**0**	**455**
Arkansas	0	0	0	87	0	0	0
Louisiana	0	0	0	21	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	15	0	0	455
Mountain	**0**	**0**	**0**	**12**	**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	39	0	0	0
Utah	0	0	0	10	0	0	0
Pacific Contiguous	**0**	**102**	**0**	**3**	**0**	**0**	**491**
California	0	86	0	3	0	0	491
Oregon	0	1,296	0	34	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**62**	**13**	**0**	**0**	**0**	**0**	**122**
Alaska	62	36	0	0	0	0	122
Hawaii	0	0	0	0	0	0	0
U.S. Total	**29**	**17**	**0**	**3**	**0**	**0**	**89**

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

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

Commercial Sector by Census Division and State, Year-to-Date through August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**58**	**6**	**0**	**0**	**10**
Connecticut	0	0	0	191	191	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	58	19	0	0	17
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**	**17**	**5**	**0**	**3**	**6**
New Jersey	0	0	0	17	10	0	0	7
New York	0	0	0	88	5	0	7	10
Pennsylvania	0	0	0	65	7	0	0	3
East North Central	**0**	**0**	**0**	**88**	**7**	**0**	**0**	**6**
Illinois	0	0	0	150	157	0	0	19
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	5
Ohio	0	0	0	123	45	0	0	2
Wisconsin	0	0	0	194	27	0	0	10
West North Central	**0**	**0**	**0**	**0**	**14**	**0**	**40**	**5**
Iowa	0	0	0	0	16	0	0	3
Kansas	0	0	0	0	129	0	0	129
Minnesota	0	0	0	0	32	0	40	13
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	8,133
South Atlantic	**0**	**0**	**0**	**21**	**8**	**0**	**0**	**3**
Delaware	0	0	0	151	82	0	0	82
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	100	21	0	0	16
Georgia	0	0	0	116	116	0	0	68
Maryland	0	0	0	84	39	0	0	3
North Carolina	0	0	0	22	21	0	0	18
South Carolina	0	0	0	0	0	0	0	50
Virginia	0	0	0	0	3	0	0	1
East South Central	**0**	**0**	**0**	**97**	**97**	**0**	**0**	**21**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	97	97	0	0	21
West South Central	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	0	83
Louisiana	0	0	0	0	0	0	0	21
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	22	0	0	14
Mountain	**0**	**0**	**0**	**24**	**20**	**0**	**0**	**10**
Arizona	0	0	0	57	57	0	0	11
Colorado	0	0	0	56	60	0	0	32
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	29	29	0	0	17
New Mexico	0	0	0	0	288	0	0	39
Utah	0	0	0	0	0	0	0	7
Pacific Contiguous	**0**	**0**	**0**	**20**	**6**	**0**	**0**	**3**
California	0	0	0	20	6	0	0	3
Oregon	0	0	0	0	24	0	0	24
Washington	0	0	0	0	58	0	0	19
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Alaska	0	0	0	0	0	0	0	59
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**10**	**3**	**0**	**2**	**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.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, August 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**205**	**79**	**0**	**10**	**0**	**0**	**32**
Connecticut	0	0	0	11	0	0	0
Maine	205	81	0	24	0	0	33
Massachusetts	0	0	0	8	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	34	0	0	0
Middle Atlantic	**43**	**32**	**47**	**7**	**9**	**0**	**51**
New Jersey	0	0	0	8	0	0	0
New York	0	2	0	5	0	0	51
Pennsylvania	43	178	79	11	13	0	0
East North Central	**10**	**19**	**69**	**6**	**4**	**0**	**67**
Illinois	9	0	0	14	0	0	0
Indiana	0	1	0	7	5	0	0
Michigan	116	282	73	19	0	0	172
Ohio	0	0	0	18	0	0	0
Wisconsin	32	358	0	19	0	0	73
West North Central	**5**	**0**	**0**	**7**	**0**	**0**	**85**
Iowa	3	0	0	9	0	0	0
Kansas	0	0	0	25	0	0	0
Minnesota	23	0	0	0	0	0	85
Missouri	0	0	0	0	0	0	0
Nebraska	13	0	0	0	0	0	0
North Dakota	68	0	0	0	0	0	0
South Atlantic	**11**	**25**	**69**	**4**	**0**	**0**	**27**
Delaware	0	0	0	0	0	0	0
Florida	24	56	0	10	0	0	0
Georgia	30	38	69	15	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	1	54	0	37	0	0	438
South Carolina	0	0	0	7	0	0	0
Virginia	15	71	0	7	0	0	0
West Virginia	0	0	0	0	0	0	28
East South Central	**0**	**50**	**0**	**7**	**62**	**0**	**0**
Alabama	0	109	0	13	271	0	0
Kentucky	0	0	0	13	0	0	0
Mississippi	0	0	0	18	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	**0**	**0**	**35**	**1**	**5**	**0**	**0**
Arkansas	0	0	0	14	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	51	1	7	0	0
Mountain	**26**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	144	0	0	53	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	26	0	0	9	0	0	0
Pacific Contiguous	**0**	**144**	**0**	**1**	**2**	**0**	**0**
California	0	41	0	1	2	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	165	0	35	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**184**
Alaska	0	12	0	0	0	0	0
Hawaii	0	0	0	0	0	0	184
U.S. Total	**4**	**9**	**31**	**1**	**3**	**0**	**20**

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

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

Industrial Sector by Census Division and State, August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**39**	**7**	**0**	**0**	**6**
Connecticut	0	0	0	544	544	0	0	11
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	34
Middle Atlantic	**0**	**0**	**0**	**50**	**6**	**0**	**0**	**5**
New Jersey	0	0	0	69	69	0	0	5
New York	0	0	0	0	13	0	0	5
Pennsylvania	0	0	0	71	7	0	0	8
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**1**	**3**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	19	0	0	4
Michigan	0	0	0	0	7	0	0	12
Ohio	0	0	0	0	18	0	0	8
Wisconsin	0	0	0	0	8	0	77	12
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	24
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	13
North Dakota	0	0	0	0	0	0	0	45
South Atlantic	**0**	**0**	**0**	**154**	**2**	**0**	**0**	**2**
Delaware	0	0	0	0	48	0	0	0
Florida	0	0	0	154	5	0	0	4
Georgia	0	0	0	0	3	0	0	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	13
East South Central	**0**	**0**	**0**	**122**	**3**	**0**	**91**	**3**
Alabama	0	0	0	0	3	0	0	4
Kentucky	0	0	0	0	14	0	0	10
Mississippi	0	0	0	0	3	0	0	5
Tennessee	0	0	0	122	4	0	91	2
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	0	4	0	0	4
Louisiana	0	0	0	0	4	0	1	1
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	8	0	4	1
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	5	0	0	22
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	9
Pacific Contiguous	**0**	**0**	**0**	**37**	**5**	**0**	**2**	**1**
California	0	0	0	37	8	0	2	1
Oregon	0	0	0	0	11	0	0	12
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**172**	**0**	**0**	**17**
Alaska	0	0	0	0	172	0	0	6
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	**0**	**0**	**0**	**27**	**2**	**0**	**1**	**1**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**205**	**79**	**0**	**10**	**0**	**0**	**32**
Connecticut	0	0	0	11	0	0	0
Maine	205	81	0	24	0	0	33
Massachusetts	0	0	0	8	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	34	0	0	0
Middle Atlantic	**43**	**32**	**47**	**7**	**9**	**0**	**51**
New Jersey	0	0	0	8	0	0	0
New York	0	2	0	5	0	0	51
Pennsylvania	43	178	79	11	13	0	0
East North Central	**10**	**19**	**69**	**6**	**4**	**0**	**67**
Illinois	9	0	0	14	0	0	0
Indiana	0	1	0	7	5	0	0
Michigan	116	282	73	19	0	0	172
Ohio	0	0	0	18	0	0	0
Wisconsin	32	358	0	19	0	0	73
West North Central	**5**	**0**	**0**	**7**	**0**	**0**	**85**
Iowa	3	0	0	9	0	0	0
Kansas	0	0	0	25	0	0	0
Minnesota	23	0	0	0	0	0	85
Missouri	0	0	0	0	0	0	0
Nebraska	13	0	0	0	0	0	0
North Dakota	68	0	0	0	0	0	0
South Atlantic	**11**	**25**	**69**	**4**	**0**	**0**	**27**
Delaware	0	0	0	0	0	0	0
Florida	24	56	0	10	0	0	0
Georgia	30	38	69	15	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	1	54	0	37	0	0	438
South Carolina	0	0	0	7	0	0	0
Virginia	15	71	0	7	0	0	0
West Virginia	0	0	0	0	0	0	28
East South Central	**0**	**50**	**0**	**7**	**62**	**0**	**0**
Alabama	0	109	0	13	271	0	0
Kentucky	0	0	0	13	0	0	0
Mississippi	0	0	0	18	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	**0**	**0**	**35**	**1**	**5**	**0**	**0**
Arkansas	0	0	0	14	0	0	0
Louisiana	0	0	0	2	6	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	51	1	7	0	0
Mountain	**26**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	144	0	0	53	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	26	0	0	9	0	0	0
Pacific Contiguous	**0**	**144**	**0**	**1**	**2**	**0**	**0**
California	0	41	0	1	2	0	0
Oregon	0	0	0	54	0	0	0
Washington	0	165	0	35	0	0	0
Pacific Noncontiguous	**0**	**3**	**0**	**0**	**0**	**0**	**184**
Alaska	0	12	0	0	0	0	0
Hawaii	0	0	0	0	0	0	184
U.S. Total	**4**	**9**	**31**	**1**	**3**	**0**	**20**

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

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

Industrial Sector by Census Division and State, Year-to-Date through August 2018 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**39**	**7**	**0**	**0**	**6**
Connecticut	0	0	0	544	544	0	0	11
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	8
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	34
Middle Atlantic	**0**	**0**	**0**	**50**	**6**	**0**	**0**	**5**
New Jersey	0	0	0	69	69	0	0	5
New York	0	0	0	0	13	0	0	5
Pennsylvania	0	0	0	71	7	0	0	8
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**1**	**3**
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	19	0	0	4
Michigan	0	0	0	0	7	0	0	12
Ohio	0	0	0	0	18	0	0	8
Wisconsin	0	0	0	0	8	0	77	12
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	24
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	13
North Dakota	0	0	0	0	0	0	0	45
South Atlantic	**0**	**0**	**0**	**154**	**2**	**0**	**0**	**2**
Delaware	0	0	0	0	48	0	0	0
Florida	0	0	0	154	5	0	0	4
Georgia	0	0	0	0	3	0	0	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	13
East South Central	**0**	**0**	**0**	**122**	**3**	**0**	**91**	**3**
Alabama	0	0	0	0	3	0	0	4
Kentucky	0	0	0	0	14	0	0	10
Mississippi	0	0	0	0	3	0	0	5
Tennessee	0	0	0	122	4	0	91	2
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	0	4	0	0	4
Louisiana	0	0	0	0	4	0	1	1
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	8	0	4	1
Mountain	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**5**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	5	0	0	22
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	9
Pacific Contiguous	**0**	**0**	**0**	**37**	**5**	**0**	**2**	**1**
California	0	0	0	37	8	0	2	1
Oregon	0	0	0	0	11	0	0	12
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**172**	**0**	**0**	**17**
Alaska	0	0	0	0	172	0	0	6
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	**0**	**0**	**0**	**27**	**2**	**0**	**1**	**1**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**5**	**0**	**1**
Connecticut	0	1	7	0	1
Maine	1	1	5	0	1
Massachusetts	1	1	11	0	1
New Hampshire	1	1	6	0	1
Rhode Island	0	0	0	0	0
Vermont	4	7	19	0	6
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	3	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**1**
Illinois	1	1	2	0	1
Indiana	2	3	5	0	2
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	7	5	0	3
Kansas	2	1	7	0	2
Minnesota	2	4	7	0	3
Missouri	2	3	15	0	3
Nebraska	2	7	8	0	4
North Dakota	2	5	9	0	5
South Dakota	3	9	12	0	5
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	11	0	3
District of Columbia	0	0	0	0	0
Florida	1	0	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	5	0	1
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	0	4	0	1
West Virginia	0	1	1	0	0
East South Central	**1**	**2**	**3**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	2	4	8	0	3
Mississippi	2	1	5	0	2
Tennessee	1	3	7	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	1	4	0	2
Louisiana	1	1	2	0	1
Oklahoma	1	1	5	0	1
Texas	2	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	5	6	0	3
Idaho	2	5	3	0	2
Montana	3	8	5	0	3
Nevada	0	2	1	0	1
New Mexico	3	7	8	0	4
Utah	2	5	3	0	2
Wyoming	3	8	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	0
Oregon	2	4	7	0	3
Washington	2	4	6	0	3
Pacific Noncontiguous	**1**	**5**	**4**	**0**	**2**
Alaska	4	12	16	0	7
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

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

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

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, August 2018

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

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

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

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

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

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

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

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

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

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

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

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2018	3	03/02/2018 11:34 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2018	3	03/02/2018 11:58 AM	. .	. Hours, . Minutes	PPL Electric Utilities Corp	RF	Pennsylvania: Berks County, Bucks County, Carbon County, Chester County, Clinton County, Columbia County, Cumberland County, Dauphin County, Juniata County, Lackawanna County, Lancaster County, Lebanon County, Lehigh County, Luzerne County, Lycoming County, Monroe County, Montgomery County, Montour County, Northampton County, Northumberland County, Pike County, Schuylkill County, Snyder County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Severe Weather	Unknown	126000
2018	3	03/02/2018 12:00 PM	. .	. Hours, . Minutes	Baltimore Gas and Electric	RF	Maryland:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	670	474019
2018	3	03/02/2018 12:00 PM	03/05/2018 12:00 AM	60 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	630000
2018	3	03/02/2018 1:51 PM	03/04/2018 12:11 PM	46 Hours, 20 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233136
2018	3	03/02/2018 1:51 PM	03/05/2018 1:18 PM	71 Hours, 27 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	325000
2018	3	03/02/2018 3:10 PM	03/06/2018 4:57 AM	85 Hours, 47 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	249322
2018	3	03/02/2018 3:46 PM	03/04/2018 7:46 PM	52 Hours, 0 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New York County, Westchester County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72353
2018	3	03/02/2018 5:00 PM	03/06/2018 11:00 AM	90 Hours, 0 Minutes	Delmarva Power & Light Company	RF	Delaware: Maryland:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60000
2018	3	03/07/2018 12:00 PM	03/07/2018 5:00 PM	5 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	3	03/07/2018 4:10 PM	03/10/2018 11:32 AM	67 Hours, 22 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	216800
2018	3	03/07/2018 5:15 PM	. .	. Hours, . Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	50	58000
2018	3	03/07/2018 7:37 PM	03/10/2018 4:35 PM	68 Hours, 58 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	102000
2018	3	03/13/2018 8:50 AM	03/14/2018 11:22 PM	38 Hours, 32 Minutes	ISO New England	NPCC	Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	123629
2018	3	03/19/2018 11:29 PM	03/20/2018 3:37 AM	4 Hours, 8 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	261	78220
2018	3	03/20/2018 7:00 PM	03/25/2018 6:30 AM	107 Hours, 30 Minutes	Atlantic City Electric Co	RF	New Jersey: Atlantic County, Camden County, Cape May County, Gloucester County, Salem County, Cumberland County, Burlington County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	80	124000
2018	3	03/24/2018 10:30 PM	03/26/2018 8:00 PM	45 Hours, 30 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	81227
2018	4	04/04/2018 4:42 PM	04/07/2018 6:22 AM	61 Hours, 40 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72896
2018	4	04/05/2018 12:50 AM	04/05/2018 4:00 PM	15 Hours, 10 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65932
2018	4	04/09/2018 11:16 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	300	250000
2018	4	04/09/2018 12:16 PM	04/09/2018 1:52 PM	1 Hours, 36 Minutes	Pacificorp	WECC	Utah: Salt Lake County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	806	57000
2018	4	04/14/2018 9:30 AM	04/14/2018 10:00 AM	0 Hours, 30 Minutes	Entergy Corp	SERC	Louisiana: Arkansas: Mississippi: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56350
2018	4	04/15/2018 7:30 AM	04/18/2018 7:30 AM	72 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	389591
2018	4	04/15/2018 5:14 PM	04/15/2018 11:25 PM	6 Hours, 11 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	78100
2018	5	05/04/2018 12:00 PM	05/06/2018 1:00 PM	49 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	300000
2018	5	05/04/2018 2:00 PM	05/05/2018 9:30 AM	19 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Calhoun County, Genesee County, Ingham County, Kent County, Macomb County, Midland County, Saginaw County, Gratiot County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2018	5	05/04/2018 8:10 PM	. .	. Hours, . Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	106150
2018	5	05/04/2018 11:10 PM	05/05/2018 12:40 AM	1 Hours, 30 Minutes	ISO New England	NPCC	New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56000
2018	5	05/05/2018 4:30 AM	05/05/2018 3:30 PM	11 Hours, 0 Minutes	ISO New England	NPCC	Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	31900
2018	5	05/14/2018 7:08 PM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	5	05/15/2018 2:50 PM	. .	. Hours, . Minutes	PPL Electric Utilities Corp	RF	Pennsylvania: Lehigh County, Schuylkill County, Cumberland County, Lancaster County, Northampton County, Berks County, Clinton County, Susquehanna County, Bucks County, Carbon County, Chester County, Columbia County, Juniata County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	114000
2018	5	05/15/2018 4:00 PM	. .	. Hours, . Minutes	Central Hudson Gas & Electric	NPCC	New York: Dutchess County, Ulster County, Orange County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72000
2018	5	05/15/2018 5:15 PM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	49999
2018	5	05/15/2018 5:25 PM	. .	. Hours, . Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82372
2018	5	05/15/2018 6:14 PM	05/15/2018 7:00 PM	0 Hours, 46 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52872
2018	5	05/15/2018 6:35 PM	05/18/2018 3:57 PM	69 Hours, 22 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	5	05/17/2018 1:11 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	California: Contra Costa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	70	70000
2018	5	05/17/2018 1:11 AM	05/18/2018 12:38 AM	23 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption	124	70000
2018	5	05/26/2018 6:40 PM	05/27/2018 11:50 PM	29 Hours, 10 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	163932
2018	6	06/02/2018 5:00 AM	06/02/2018 11:00 AM	6 Hours, 0 Minutes	Kansas City Power & Light Co.	SPP RE	Missouri: Jackson County, Clay County, Platte County, Andrew County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103535
2018	6	06/18/2018 6:20 PM	06/19/2018 12:15 AM	5 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112927
2018	6	06/20/2018 10:58 PM	06/21/2018 6:05 AM	7 Hours, 7 Minutes	Lake Worth Utilities	FRCC	Florida: Palm Beach County;	Complete operational failure or shut-down of the transmission and/or distribution of electrical system-Transmission Interruption	73	27000
2018	6	06/22/2018 2:38 PM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-Severe Weather	10000	4200000
2018	6	06/28/2018 2:50 PM	06/29/2018 9:00 AM	18 Hours, 10 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	160	48109
2018	6	06/28/2018 6:36 PM	07/01/2018 7:00 AM	60 Hours, 24 Minutes	Ameren Missouri	SERC	Missouri: Illinois:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	6	06/29/2018 7:35 AM	06/29/2018 9:30 AM	1 Hours, 55 Minutes	Minnesota Power	MRO	Minnesota: St. Louis County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Severe Weather	350	Unknown
2018	7	07/11/2018 12:58 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2018	7	07/11/2018 3:40 PM	07/11/2018 4:00 PM	0 Hours, 20 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Transmission Interruption	425	26195
2018	7	07/16/2018 5:15 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	0	0
2018	7	07/18/2018 4:00 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Fresno County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2018	7	07/18/2018 5:28 PM	07/18/2018 5:31 PM	0 Hours, 3 Minutes	Bonneville Power Administration	WECC	Oregon:	Total generation loss, within one minute of: greater than or equal to 2,000 Megawatts in the Eastern or Western Interconnection or greater than or equal to 1,400 Megawatts in the ERCOT Interconnection.-Severe Weather/Transmission Interruption	Unknown	Unknown
2018	7	07/20/2018 4:19 PM	07/20/2018 4:48 PM	0 Hours, 29 Minutes	Tennessee Valley Authority	SERC	Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	87833

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2018	7	07/21/2018 4:45 AM	07/21/2018 11:15 AM	6 Hours, 30 Minutes	Entergy Corp	SERC	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	64930
2018	7	07/21/2018 7:20 AM	07/21/2018 11:30 AM	4 Hours, 10 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	143	42901
2018	7	07/23/2018 4:16 AM	07/23/2018 4:29 AM	0 Hours, 13 Minutes	Duke Energy Florida	FRCC	Florida: Pinellas County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	40	Unknown
2018	7	07/26/2018 8:24 PM	. .	. Hours, . Minutes	Redding Electric Utility	WECC	California: Shasta County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System-Natural Disaster	Unknown	Unknown
2018	7	07/27/2018 9:34 AM	07/27/2018 9:51 AM	0 Hours, 17 Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-System Operations	Unknown	Unknown
2018	7	07/27/2018 4:28 PM	07/27/2018 4:33 PM	0 Hours, 5 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New York County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2018	7	07/29/2018 2:33 PM	07/29/2018 6:23 PM	3 Hours, 50 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Natural Disaster	83	57670
2018	7	07/30/2018 6:30 AM	07/30/2018 11:00 PM	16 Hours, 30 Minutes	Arizona Public Service Co	WECC	Arizona: Maricopa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000
2018	8	08/07/2018 1:22 AM	08/07/2018 1:59 AM	0 Hours, 37 Minutes	Pacific Gas & Electric Co	WECC	California: Butte County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Natural Disaster	5	485
2018	8	08/07/2018 1:22 AM	08/07/2018 7:04 PM	17 Hours, 42 Minutes	Pacific Gas & Electric Co	WECC	California: Butte County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Natural Disaster	27	11383
2018	8	08/26/2018 10:00 PM	08/27/2018 4:56 AM	6 Hours, 56 Minutes	Consumers Energy Co	RF	Michigan: Muskegon County, Newaygo County, Oceana County, Mason County, Kent County, Mecosta County, Montcalm County, Isabella County, Midland County, Saginaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	67000
2018	8	08/28/2018 8:00 PM	08/30/2018 2:59 PM	42 Hours, 59 Minutes	Consumers Energy Co	RF	Michigan: Benzie County, Barry County, Grand Traverse County, Kalkaska County, Mason County, Oceana County, Muskegon County, Kent County, Newaygo County, Montcalm County, Mecosta County, Antrim County, Eaton County, Ionia County, Isabella County, Clare County, Saginaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	110000
2018	8	08/29/2018 12:00 AM	08/30/2018 12:00 AM	24 Hours, 0 Minutes	ComEd	SERC	Illinois:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	100000
2018	8	08/31/2018 3:07 PM	08/31/2018 3:31 PM	0 Hours, 24 Minutes	Pacificorp	WECC	Oregon:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Natural Disaster/Transmission Interruption	96	50000

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

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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

Table B.2 Major Disturbances and Unusual Occurrences, 2017

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

Table B.2 Major Disturbances and Unusual Occurrences, 2017

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2017	10	10/16/2017 3:55 PM	10/16/2017 4:10 PM	0 Hours, 15 Minutes	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/20/2017 3:44 AM	10/20/2017 3:45 AM	0 Hours, 1 Minutes	Peak Reliability	WECC	Washington:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	900	Unknown
2017	10	10/22/2017 8:45 AM	10/22/2017 2:00 PM	5 Hours, 15 Minutes	Entergy Corp	SERC	Louisiana: Mississippi: Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2017	10	10/23/2017 5:50 PM	10/24/2017 6:17 PM	24 Hours, 27 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	440	115144
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Whatcom County; Montana:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2017	10	10/29/2017 11:40 PM	11/01/2017 6:08 PM	66 Hours, 28 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	310453
2017	11	11/01/2017 3:40 PM	11/01/2017 10:00 PM	6 Hours, 20 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	0	0
2017	11	11/05/2017 7:35 PM	11/05/2017 11:09 PM	3 Hours, 34 Minutes	Ohio Edison Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	89216
2017	11	11/13/2017 2:00 AM	11/15/2017 8:17 AM	54 Hours, 17 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kitsap County, Thurston County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	236100
2017	11	11/13/2017 4:33 PM	11/16/2017 6:00 AM	61 Hours, 27 Minutes	Seattle City Light, Sytem Control Center	WECC	Washington: King County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	85	68430
2017	12	12/04/2017 9:53 PM	. .	. Hours, . Minutes	Southern California Edison Co	WECC	California:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather/Transmission Interruption	540	263000
2017	12	12/05/2017 6:30 AM	12/06/2017 10:00 AM	27 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Oscoda County, Isabella County, Roscommon County, Ogemaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	117500
2017	12	12/07/2017 8:00 PM	12/08/2017 5:00 PM	21 Hours, 0 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	88000
2017	12	12/08/2017 9:30 AM	12/08/2017 10:30 PM	13 Hours, 0 Minutes	Entergy Corp	SERC	Louisiana: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	79000
2017	12	12/08/2017 10:00 AM	12/10/2017 8:50 PM	58 Hours, 50 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	865	301872
2017	12	12/10/2017 1:25 AM	12/10/2017 2:30 AM	1 Hours, 5 Minutes	Southern California Edison Co	WECC	California: Ventura County, Santa Barbara County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	110	51323
2017	12	12/13/2017 9:55 AM	12/13/2017 2:45 PM	4 Hours, 50 Minutes	Long Island Power Authority	NPCC	New York: Suffolk County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	12	12/29/2017 7:00 AM	. .	. Hours, . Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	210	Unknown

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

Appendix C

Technical notes

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

Data quality

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

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

Reliability of data

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

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

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

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

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

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

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

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

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Issues within historical data series:

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

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

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

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

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

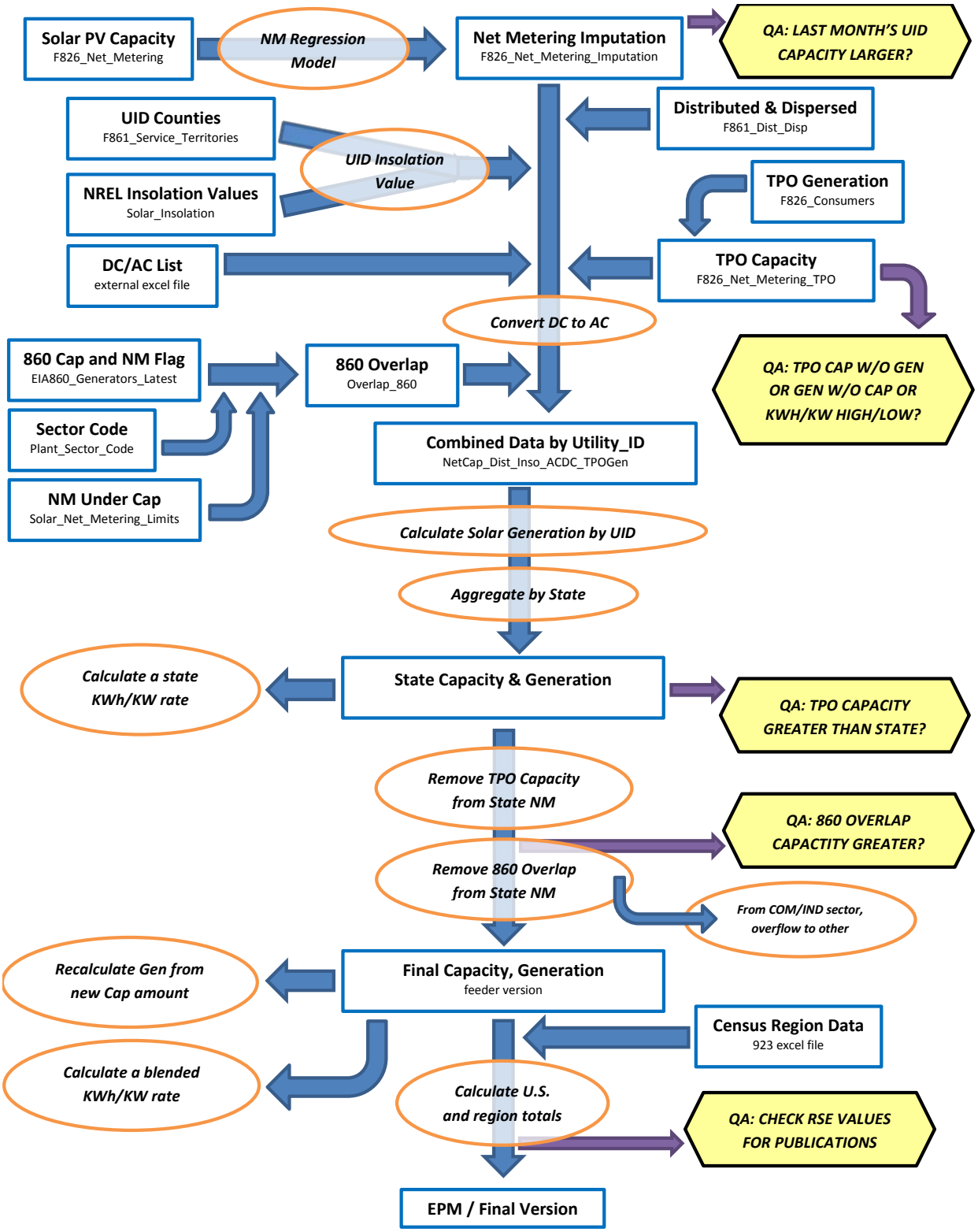
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

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

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	20.28	5.93	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.50	6.25	--	1.06
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	18.41	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	22.15	6.02	--	1.03
New Jersey	25.94	5.73	--	1.03
New York	25.44	6.08	--	1.03
Pennsylvania	21.97	5.94	--	1.03
East North Central	19.87	5.79	27.57	1.04
Illinois	17.70	5.80	--	1.01
Indiana	22.08	5.76	--	1.06
Michigan	18.61	5.84	27.59	1.05
Ohio	24.68	5.81	--	1.06
Wisconsin	17.86	5.88	27.35	1.03
West North Central	16.49	5.77	26.40	1.07
Iowa	17.65	5.72	26.40	1.08
Kansas	17.18	5.73	--	1.03
Minnesota	17.82	5.79	--	1.09
Missouri	17.65	5.77	--	1.03
Nebraska	16.87	--	--	1.06
North Dakota	13.02	5.85	--	1.00
South Dakota	16.46	--	--	--
South Atlantic	23.55	5.83	28.54	1.03
Delaware	--	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.79	5.81	28.54	1.02
Georgia	19.97	5.83	--	1.03
Maryland	25.08	5.81	--	1.03
North Carolina	25.06	5.93	--	1.02
South Carolina	24.62	5.78	--	1.03
Virginia	20.44	5.83	--	1.05
West Virginia	25.01	5.81	--	1.07
East South Central	20.93	5.73	--	1.02
Alabama	19.05	5.54	--	1.03
Kentucky	22.42	5.81	--	1.03
Mississippi	13.13	--	--	1.02
Tennessee	22.86	5.74	--	1.00
West South Central	16.15	5.84	28.67	1.03
Arkansas	17.41	5.80	--	1.02
Louisiana	16.64	--	28.67	1.03
Oklahoma	17.17	5.80	--	1.03
Texas	15.68	5.89	--	1.03
Mountain	18.78	5.85	--	1.05
Arizona	19.37	5.80	--	1.04
Colorado	18.54	5.67	--	1.10
Idaho	--	--	--	1.00
Montana	17.19	5.92	--	1.05
Nevada	18.78	5.81	--	1.03
New Mexico	18.62	5.66	--	1.04
Utah	21.43	5.88	--	1.04
Wyoming	17.69	5.88	--	1.05
Pacific Contiguous	17.77	6.00	--	1.04
California	22.90	--	--	1.03
Oregon	--	--	--	1.05
Washington	16.78	6.00	--	1.10
Pacific Noncontiguous	17.88	6.22	--	1.00
Alaska	14.15	5.60	--	1.00
Hawaii	19.45	6.23	--	--
U.S. Total	19.07	6.07	28.34	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, 2015 through 2017

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2015**	**2016**	**2017**
Net Generation			
Coal	0.33%	0.09%	0.17%
Petroleum Liquids	1.00%	3.08%	3.76%
Petroleum Coke	1.60%	1.46%	5.79%
Natural Gas	0.18%	0.30%	1.93%
Other Gases	3.90%	3.76%	11.64%
Hydroelectric	1.08%	0.76%	2.47%
Nuclear	0.01%	0.05%	0.00%
Other	0.80%	0.76%	2.50%
Total	**0.23%**	**0.08%**	**0.63%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.24%	0.11%	0.13%
Petroleum Liquids	2.28%	5.81%	4.01%
Petroleum Coke	1.50%	0.87%	4.95%
Natural Gas	0.32%	2.26%	1.08%
Fuel Stocks for Electric Power Sector			
Coal	0.40%	0.72%	0.18%
Petroleum Liquids	2.92%	3.19%	1.97%
Petroleum Coke	0.04%	0.27%	14.42%
Retail Sales			
Residential	0.30%	0.26%	0.31%
Commercial	0.18%	0.55%	0.30%
Industrial	2.92%	4.31%	4.00%
Transportation	0.37%	0.06%	0.12%
Total	**0.93%**	**1.40%**	**1.13%**
Revenue			
Residential	0.15%	0.28%	0.26%
Commercial	0.62%	1.21%	0.28%
Industrial	3.15%	4.54%	3.52%
Transportation	1.09%	1.53%	0.21%
Total	**0.83%**	**1.34%**	**0.58%**
Average Retail Price			
Residential	0.15%	0.05%	0.21%
Commercial	0.44%	0.65%	0.21%
Industrial	0.31%	0.24%	0.51%
Transportation	0.83%	1.57%	0.20%
Total	**0.11%**	**0.10%**	**0.54%**
Receipt of Fossil Fuels			
Coal	1.70%	1.92%	1.30%
Petroleum Liquids	1.86%	1.16%	3.18%
Petroleum Coke	2.47%	0.01%	0.00%
Natural Gas	0.25%	0.21%	19.49%
Cost of Fossil Fuels			
Coal	0.04%	0.12%	0.83%
Petroleum Liquids	0.25%	0.26%	0.34%
Petroleum Coke	1.42%	0.12%	0.00%
Natural Gas	0.14%	0.12%	0.47%

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, 2015 through 2017

Item	2015			2016			2017		
	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	1,356,057	1,352,398	-0.27%	1,240,108	1,239,149	-0.08%	1,207,901	1,205,835	-0.17%
Petroleum Liquids	17,456	17,372	-0.48%	12,675	13,008	2.63%	12,583	12,414	-1.34%
Petroleum Coke	10,987	10,877	-1.00%	11,232	11,197	-0.31%	8,508	8,976	5.50%
Natural Gas	1,335,068	1,333,482	-0.12%	1,380,295	1,378,307	-0.14%	1,272,864	1,296,415	1.85%
Other Gases	12,963	13,117	1.18%	13,000	12,807	-1.48%	14,159	12,469	-11.94%
Hydroelectric	246,075	243,989	-0.85%	259,143	261,126	0.77%	293,550	293,839	0.10%
Nuclear	797,178	797,178	0.00%	805,327	805,694	0.05%	804,950	804,950	0.00%
Other	311,597	309,189	-0.77%	357,299	355,387	-0.54%	400,289	399,371	-0.23%
Total	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,675**	**-0.06%**	**4,014,804**	**4,034,268**	**0.48%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	740,855	739,594	-0.17%	678,005	677,371	-0.09%	663,479	663,911	0.07%
Petroleum Liquids (1,000 barrels)	29,545	28,925	-2.10%	21,225	22,405	5.56%	21,935	21,696	-1.09%
Petroleum Coke (1,000 tons)	4,088	4,044	-1.07%	4,275	4,253	-0.52%	3,349	3,490	4.21%
Natural Gas (1,000 Mcf)	10,048,346	10,016,576	-0.32%	10,400,189	10,170,110	-2.21%	9,440,777	9,507,760	0.71%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	197,128	195,548	-0.80%	163,946	162,009	-1.18%	137,155	137,687	0.39%
Petroleum Liquids (1,000 barrels)	32,223	32,884	2.05%	30,880	31,839	3.11%	28,723	29,294	1.99%
Petroleum Coke (1,000 tons)	1,342	1,340	-0.15%	872	845	-3.10%	1,113	864	-22.42%
Retail Sales (Million kWh)									
Residential	1,399,884	1,404,096	0.30%	1,407,394	1,411,058	0.26%	1,378,819	1,378,648	-0.01%
Commercial	1,358,419	1,360,752	0.17%	1,359,617	1,367,191	0.56%	1,349,208	1,353,358	0.31%
Industrial	958,563	986,508	2.92%	936,269	976,715	4.32%	946,443	984,298	4.00%
Transportation	7,659	7,637	-0.29%	7,499	7,497	-0.03%	7,524	7,523	-0.02%
Total	**3,724,525**	**3,758,992**	**0.93%**	**3,710,779**	**3,762,462**	**1.39%**	**3,681,995**	**3,723,826**	**1.14%**
Revenue (Million Dollars)									
Residential	177,367	177,624	0.14%	176,585	177,077	0.28%	177,860	177,661	-0.11%
Commercial	143,893	144,781	0.62%	140,937	142,643	1.21%	144,108	144,260	0.11%
Industrial	66,088	68,166	3.14%	63,201	66,068	4.54%	65,394	67,691	3.51%
Transportation	779	771	-1.12%	711	722	1.53%	727	728	0.15%
Total	**388,127**	**391,341**	**0.83%**	**381,435**	**386,509**	**1.33%**	**388,089**	**390,340**	**0.58%**
Average Retail Price (Cents/kWh)									
Residential	12.67	12.65	-0.16%	12.55	12.55	0.02%	12.90	12.89	-0.10%
Commercial	10.59	10.64	0.44%	10.37	10.43	0.65%	10.68	10.66	-0.20%
Industrial	6.89	6.91	0.22%	6.75	6.76	0.21%	6.91	6.88	-0.47%
Transportation	10.17	10.09	-0.83%	9.48	9.63	1.55%	9.67	9.68	0.17%
Total	**10.42**	**10.41**	**-0.10%**	**10.28**	**10.27**	**-0.06%**	**10.54**	**10.48**	**-0.55%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	769,866	782,929	1.70%	638,564	650,770	1.91%	634,118	642,364	1.30%
Petroleum Liquids (1,000 barrels)	24,512	24,320	-0.78%	16,610	16,807	1.18%	15,619	16,127	3.25%
Petroleum Coke (1,000 tons)	4,779	4,897	2.46%	4,166	4,166	0.01%	3,309	3,309	0.00%
Natural Gas (1,000 Mcf)	9,843,170	9,842,581	-0.01%	10,258,688	10,271,180	0.12%	8,050,520	9,628,733	19.60%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.22	2.22	-0.03%	2.12	2.11	-0.15%	2.08	2.06	-0.87%
Petroleum Liquids (1,000 barrels)	11.48	11.49	0.10%	9.36	9.39	0.28%	11.82	11.86	0.36%
Petroleum Coke (1,000 tons)	1.87	1.84	-1.37%	1.65	1.65	0.15%	2.13	2.13	0.00%
Natural Gas (1,000 Mcf)	3.22	3.23	0.18%	2.88	2.87	-0.06%	3.39	3.37	-0.55%

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 2017 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.